



Chabot College

2016-2018 CATALOG



ACADEMIC FREEDOM

Academic freedom exists and is nurtured in our community for the common good of all citizens. Students, faculty, administrators and society itself derive benefits from the practice of academic freedom with its open search for truth and its free exposition. Academic freedom is fundamental for the protection of the instructor's right in teaching and the student's right in learning in the classroom and on the campus. Academic freedom carries with it responsibilities correlative with rights, such responsibilities being implicit in all freedoms and assured by all members of the college to insure the rights of others.

Any issue involving the alleged violation of academic freedom on campus shall follow the procedures of academic due process as provided for the students, faculty, and the college, whichever be appropriate. (Board Manual, Policy 4030, adopted February 18, 2014)



PHOTOGRAPHY DISCLAIMER

Chabot and Las Positas Colleges, being non-profit California Community Colleges, reserve the right to use photography and video images of students and visitors, age 18 and older, taken on our property and at college-sponsored events for marketing and promotional purposes. Objection to the use of an individual's photograph may be made in writing to the district office of marketing and public relations, addressed to:

Director, Public Relations, Marketing and Government Relations
Chabot-Las Positas Community College District
7600 Dublin Blvd., 3rd Floor, Dublin, CA 94568



STATEMENT OF NON-DISCRIMINATION

Chabot College desires to maintain an academic and work environment which protects the dignity and promotes the mutual respect of all employees and students. Sexual harassment of employees or students will not be condoned. In general, deliberate verbal comments, gestures or physical contact of a sexual nature that are unsolicited and unwelcomed will be considered harassment (Title VII of the Civil Rights Act of 1964).





7600 Dublin Boulevard
Dublin, California 94568

Phone: (925) 485-5208
www.clpccd.org



25555 Hesperian Boulevard
Hayward, California 94545

Phone: (510) 723-6600
www.chabotcollege.edu

Chabot College

Serving the...

Castro Valley Unified School District
Dublin Unified School District
Hayward Unified School District
Livermore Valley Joint Unified School District
New Haven Unified School District
Pleasanton Unified School District
San Leandro Unified School District
San Lorenzo Unified School District
Sunol Glen Elementary School District

DISCLAIMER

Chabot College provides its catalog and other information for the general guidance of students, faculty, staff members, prospective students and other educational institutions. Every effort has been made to ensure its accuracy, although all information including but not limited to: costs, rules, regulations, program requirements, course content and staff, is subject to change at any time. Students should consult the college website (www.chabotcollege.edu), supplementary information, or college staff for the most up to date information.

This catalog is available in alternate format. Contact the Disabled Student Resource Center, Building 2400 or call (510) 723-6725.

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Director, Public Relations, Marketing and Government Relations
Chabot-Las Positas Community College District
7600 Dublin Blvd., 3rd Floor, Dublin, CA 94568



To learn means to accept the postulate that life did not begin at my birth. Others have been here before me, and I walk in their footsteps. The books I have read were composed by generations of fathers and sons, mothers and daughters, teachers and disciples. I am the sum total of their experiences, their quests. And so are you.

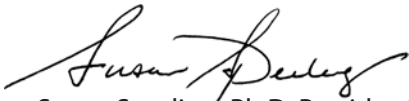
~Elie Wiesel

I want to personally welcome you to our learning community.

Chabot College has been the first step along the path to college learning and success for generations of seekers who are now shaping our region, state, and country. For over half a century the College has delivered superb educational opportunities, support, and mentoring to students just like you. As an educator at Chabot for thirty years, I am awed by the persistence, endurance, and achievement of our graduates, who transfer to excellent universities or complete degrees and certificates in one of our career technical preparation programs. Our students and staff represent a virtual rainbow of diverse cultures, one of our greatest riches at Chabot.

We are proud to be the open door to higher education for many Dreamers and for those who are first in their families to attend college. We are committed to social, economic, and environmental justice, areas of passion and purpose for many Chabot students, teachers, and staff. I hope to meet you along your pathway to success here and beyond as you join our wonderful community of teachers and learners.

Sincerely,


Susan Sperling, Ph.D. President



The Chabot-Las Positas Board of Trustees governs the Chabot-Las Positas Community College District and is responsible for all policy decisions. The Board meets twice per month.

Jannett N. Jackson, Ed.D., Chancellor

Name/Position	Area Represented	Year First Elected
Carlo Vecchiarelli, President	Area 5 – Pleasanton	2004
Hal G. Gin, Ed.D., Secretary	Area 6 – San Lorenzo	2005
Marshall Mitzman, Ph.D.	Area 1 – Hayward	2008
Isobel F. Dvorsky	Area 2 – San Leandro	1985
Arnulfo Cedillo, Ed.D.	Area 3 – Union City	1985
Donald L. "Dobie" Gelles	Area 4 – Castro Valley	1998
William L. "Will" Macedo	Area 7 – Livermore	2000
David Truelove	Student Trustee, Chabot College	
Zainab "Zee" Dogar	Student Trustee, Las Positas College	

Trustees Emeriti

E.J. "Jay" Chinn	1961–1985
Elva M. Cooper	1987–1996
Gary R. Craig	1985–2005
Fred M. Duman	1967–1991
Ann H. Duncan	1971–1984
Dorothy S. Hudgins	1967–1987
Lawrence R. Jarvis	1975–1987
Alison S. Lewis	1991–2008
James S. Martin	1969–1975
Edward E. Martins	1961–1967
Barry Schrader	1988–2000
Fredrick T. Sullivan	1961–1971
William A. Tenney	1961–1967
L. Arthur Van Etten	1961–1985
Margaret R. Wiedman	1977–1989
Barbara F. Mertes, Ph.D	2000–2014



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Fall 2016

Monday	August 15	Convocation Day
Tuesday	August 16	College Division Day
Wednesday	August 17	Classes Start
Monday	September 5 ¹	Labor Day Holiday
Friday	November 11	Veterans' Day Holiday
Wednesday – Friday	November 23-25 ¹	Thanksgiving Holiday ¹
Tuesday	December 13	Last Day of Instruction
Wednesday	December 14	Finals
Thursday	December 15	Finals
Friday	December 16	Finals
Saturday	December 17	Saturday Finals
Monday	December 19	Finals
Tuesday	December 20	Finals
Monday	January 2, 2017 by 11 p.m. via Internet	Grades Due

Spring 2017

Monday	January 16	Martin Luther King Holiday
Tuesday	January 17	Classes Start
Friday – Monday	February 17 – 20 ¹	Presidents' Weekend Holiday ¹
Monday – Friday	March 20 – March 24	Spring Break
Friday	May 19	Last Day of Instruction
Saturday	May 20	Saturday Finals
Monday	May 22	Finals
Tuesday	May 23	Finals
Wednesday	May 24	Finals
Thursday	May 25	Finals
Friday	May 26	Finals
Monday	May 29	Memorial Day Holiday
Friday	June 2 by 11 p.m. via Internet	Grades Due

¹No Saturday classes

Plus One Variable Flex Day for Faculty

Summer 2016 Window Period: Monday, June 13 to Friday, August 5, 2016

Monday, July 4, 2016 Independence Day Holiday

Grades Due: Monday, August 8 by 11 p.m. via Internet



MAIN TELEPHONE NUMBER (510) 723-6600

PRESIDENT (510) 723-6641

Institutional Planning
 Program Review Institutional Research
 Marketing and Community Relations Grant Development
 Alumni Association Staff Development

ADMINISTRATIVE SERVICES

Vice President, Administrative Services (510) 723-6618

Fiscal Services
 Budget Development and Management
 Purchasing Control
 College Bookstore
 College Box Office
 College Bursar
 Facilities Rental
 College Mailroom
 College Maintenance and Operations
 College Capital Construction
 College Switchboard

Director, Campus Safety and Security (510) 723-6923

Reprographics Center (510) 723-6761

Manager, Bookstore (510) 723-2650

Assistant Manager, Bookstore (510) 723-6925

ACADEMIC SERVICES

Vice President (510) 723-6626

Professional Development
 Distance Education

Dean, Applied Technology and Business (510) 723-6652

Accounting, Apprenticeships, Automotive Technology,
 Business, Computer Application Systems,
 Entrepreneurship, Electronic Systems Technology,
 Fire Technology, Industrial Technology, Machine
 Tool Technology, Real Estate, Welding Technology,
 Work Experience

Vocational Education (CCCAOE, Advisory Committees)
 Perkins

Dean, Arts, Humanities, and Social Sciences (510) 723-6669

Administration of Justice, Anthropology, Architecture,
 Art, Art History, Communication Studies, Digital
 Media, Early Childhood Development, Economics,
 Ethnic Studies, Geography, History, Humanities,
 Film, Interior Design, Mass Communications,
 Museum Studies, Music (Applied), Music (Literature,
 Theory, and Musicianship), Music (Performance),
 Music (Recording & Technology), Philosophy,
 Photography, Political Science, Psychology,
 Religious Studies, Recreation and Rehabilitation
 Therapies, Social Science, Sociology, Theater Arts,
 Performing Arts Center Radio Station
 TV Station
 The Spectator

Dean, Academic Pathways and Student Success (510) 723-7564

General Studies, Library Skills, Tutoring
 Career Pathways
 First Year Experience
 Learning Connection
 Library

Dean, Health, Physical Education and Athletics (510) 723-7202

Dental Hygiene, Health, Medical Assisting, Nursing,
 Nutrition, Physical Education
 Athletics
 Dental Hygiene Clinic Fitness Center Nursing Skills Lab

Dean, Language Arts (510) 723-6805

English Composition, English Learning Skills, English
 Literature, English As A Second Language (ESL),
 Language Center, Service Learning, Sign Language,
 World Languages (Chinese, French, German, Italian,
 Japanese, Portuguese, Spanish)

Dean, Science and Mathematics (510) 723-6897

Astronomy, Biological Sciences (Anatomy, Biology,
 Biotechnology, Environmental Science,
 Microbiology, Physiology), Chemistry, Computer
 Science, Engineering, Mathematics, Physical
 Science, Physics

Manager, Children's Center (510) 723-7483

Child Care Services, Day/Evening
 Education (CCAMPIS, Food Program, Health Care,
 Family Resources Coordination **(510) 723-6600**





STUDENT SERVICES

Vice President (510) 723-6743
 Community Education and Services
 Student Access and Community Outreach
 Student Conduct and Due Process/Student Discipline
 Student Equity/Student Success and Support Program
 Student Grievance
 Student Services Program Review and Assessment
 Photo I .D . Center

Student Health Center (510) 723-7625

Dean, Counseling (510) 723-6716
 Academic Counseling Articulation Assessment
 Career Counseling Career/Transfer Center
 Crisis Intervention and Referral Health/Mental Health
 Services New Student Orientation
 Peer Mentoring Program Personal Counseling
 Program: Career Education and Pathways,
 Trade Adjustment Assistance, Community College
 to Career Training, Title IX
 Psychology-Counseling (Instruction/Curriculum)
 Student Follow-Up
 Student Online Services Center (SOS)
 Student Success and Support

Director, Admission and Records (510) 723-6700
 Admissions
 Apprenticeship
 Attendance Accounting and Grades
 Concurrent Enrollment
 Cross-Registration with Transfer Institutions
 Degree Audit
 Evaluations
 G.E. Certification
 Health Science Admissions
 International Student Admissions
 Records Disposition, Security, and Maintenance
 Registration
 Special Admissions
 State Attendance Reporting
 Student Accounts
 Transcript/Enrollment Verifications
 Veterans Services (510) 723-6910

Director, Financial Aid (510) 723-6751
 Federal (Title IV) Programs Federal Work Study
 Pell Grant
 SEOG
 Stafford Loans
 California State Programs
 BOG Fee Waiver
 Cal Grant
 Chafee (Foster Youth) Grant
 Dream Act
 Disbursement of Other Program Funds
 (Scholarships, EOPS, ASPIRE, etc.)
 Community and Campus Financial Aid Outreach

Dean, Special Programs and Services (510) 723-6956
 Athletics Counselor (510) 723-6930
 EOPS/CARE/CalWORKs (510) 723-6909
 Daraja-Umoja Program (510) 723-6747
 Disabled Student Programs & Services (DSPS) (510) 723-6725
 Foster Youth Success Program (510) 723-7682
 Hayward Promise Neighborhood (510) 723-2979
 PACE (510) 723-2626
 Puente Program (510) 723-7120
 Summer Youth Sports Program (SYSP) (510) 723-6917
 TRIO/ASPIRE (510) 723-7547
 TRIO/EXCEL (510) 723-7502
 TRIO/Educational Talent Search (ETS) (510) 723-7570

Director of Student Life (510) 723-6608
 SSCC Flea Market (510) 723-6918
 Co-curricular funding
 SSCC Inter-Club Council/Student Clubs (510) 723-6800
 Scholarships and Awards
 Student Activities and Events Hotline (510) 723-7140
 Student Government (SSCC) (510) 723-6800
 SSCC President (510) 723-7460



DISTRICT OFFICE

BUSINESS OFFICE/FISCAL SERVICES/PURCHASING

Vice Chancellor Lorenzo Legaspi (925) 485-5203
 Director of Business Services Barbara Yesnosky (925) 485-5231
 Accounting Karen Esteller (925) 485-5224
 Manager, Purchasing/ Warehouse Victoria Lamica (925) 485-5233
 Buyer Annie Harris (925) 485-5205
 Director, Maintenance & Operations Walter Blevins (510) 723-6648

CHANCELLOR

Chancellor Jannett Jackson (925) 485-5206
 (Board of Trustees, Operation of District)

TRAINING AND DEVELOPMENT SOLUTIONS

Director MariAnn Fisher (925) 249-9372

HUMAN RESOURCES

Vice Chancellor Wyman Fong (925) 485-5261
 Information and Questions Denise Marriott (925) 485-5236
 Manager, Human Resources Vacant (925) 485-5240
 Director, Employee & Labor Relations David A. Betts (925) 485-5513
 Manager, Payroll Services Lori Benetti (925) 485-5228

INFORMATION TECHNOLOGY SERVICES

Chief Technology Officer Jeannine Methe (925) 485-5213



College President

***Executive Assistant
*Administrative Assistant**

**Director
Campus Safety & Security**

**Vice President
Administrative Services**

**Vice President
Academic Services**

**Vice President
Student Services**

- *Executive Assistant**
- Executive Director
Development &
Foundation**
- Director
Grants**
- Director
California Early Childhood
Mentor Program
Assistant Director**

- *Executive Assistant**
- Dean
Academic Pathways &
Student Success**
- Dean
Applied Technology &
Business**
- Dean
Arts, Humanities &
Social Sciences**
- Dean
Health, Kinesiology &
Athletics**
- Dean
Language Arts**
- Dean
Science & Mathematics**
- Manager
Children's Center**

- *Executive Assistant**
- Dean
Counseling**
- Dean
Special Programs &
Services**
- Director
Admissions & Records**
- Director
Financial Aid**
- Director
Student Life**
- Adult Education and
Non-Credit Project
Manager**

*Non-Administration Confidential

Revised 08/01/2016 - President's Office/KR



CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT



HISTORY

The Chabot-Las Positas Community College District is in its 55th year of providing educational opportunities to residents of the Bay Area.

The formation of a “junior college district” was approved by the voters on January 10, 1961, and the first board of trustees elected on April 18, 1961. Chabot College opened for classes on September 11, 1961, on a seven and one-half acre temporary site in San Leandro with an enrollment of 1,163 students. The 94-acre Chabot College site on Hesperian Boulevard in Hayward opened for its first day of classes on September 20, 1965.

Chabot College primarily serves residents of Alameda County in the East Bay area, including the district communities of Castro Valley, Hayward, San Leandro, San Lorenzo and Union City.

The site for Las Positas College on 147 acres in Livermore was purchased in October, 1964, and the college known then as Chabot College’s Valley Campus opened for instruction on March 31, 1975, in four buildings designed for 600 students. Las Positas College was designated California’s 107th community college by the California Community Colleges Board of Governors in October, 1988. Las Positas College primarily serves residents of Alameda County and a portion of Contra Costa County in the Tri-Valley area, including the district communities of Dublin, Livermore, Pleasanton and Sunol. The district serves over 26,000 students.

ACCREDITATION

Chabot College is accredited by the Western Association of Schools and Colleges. Chabot College is also accredited by the Council on Dental Education, American Dental Association, the Committee on Allied Health Education and Accreditation in collaboration with the American Hospital Health Information Management Association and the American Medical Assisting Association. The Program in Nursing is accredited by the California Board of Registered Nursing. The college is approved by the California State Department of Education and is a member of the American Association of Community and Junior Colleges and the Community College League of California.

Appropriate courses are fully accepted on transfer by the University of California, the state university system, and by private four-year colleges and universities.

The College is approved for the training of veterans and for the education of foreign students.

BOARD PRIORITIES

Background: A priority of the previous year was the creation of a district strategic plan and an educational master plan for each college. These plans include the three pillars that support student success- EC2: Educational Excellence; Curriculum Relevancy; and Community Collaboration.

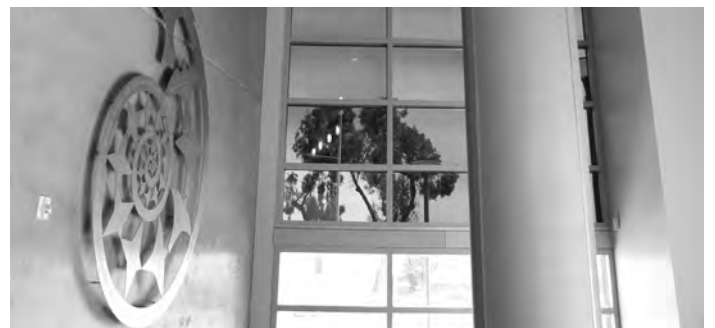
To that end, the following board priorities are established for the 2016-2019 academic years. These priorities align with the district’s strategic plan and colleges’ educational master plans.

Educational Excellence

- Focus on improvement by closing achievement gaps utilizing established metrics of Institutional Effectiveness, Student Success and Student Equity.
- Cultivate a student-centered culture with a focus on excellence, trust, service and accountability.
- Create an evolutionary process for people to learn and keep up to date.

Curriculum Relevancy & Community Collaboration

- Expand educational pathways with our K-14 partners in order to streamline and remove structural barriers to their success
- Improve our international student programs and services at both colleges to better support the needs of our students.
- Expand the use of technology to enhance instruction, support assessment and ensure continuous improvement of our services to students.





CHABOT COLLEGE VISION, MISSION AND VALUE STATEMENTS

VISION

Chabot College is a learning-centered institution with a culture of thoughtfulness and academic excellence, committed to creating a vibrant community of life-long learners.

MISSION

Chabot College is a public comprehensive community college that prepares students to succeed in their education, progress in the workplace, and engage in the civic and cultural life of the community. Our students contribute to the intellectual, cultural, physical, and economic vitality of the region.

The college responds to the educational and workforce development needs of our regional population and economy. As a leader in higher education, we promote excellence and equity in our academic and student support services. We are dedicated to student learning inside and outside the classroom to support students' achievement of their educational goals.

VALUES

The colleges' vision and mission are supported by the following collective values:

LEARNING AND TEACHING

- Supporting a variety of teaching philosophies and learning modalities
- Providing an environment conducive to intellectual curiosity and innovation
- Encouraging collaboration that fosters learning
- Engaging in ongoing reflection on learning, by students and by staff
- Cultivating critical thinking in various contexts
- Supporting the development of the whole person

COMMUNITY AND DIVERSITY

- Building a safe and supportive campus community
- Treating one another with respect, dignity, and integrity
- Practicing our work in an ethical and reflective manner
- Honoring and respecting cultural diversity
- Encouraging diversity in our curriculum and community of learners

INDIVIDUAL AND COLLECTIVE RESPONSIBILITY

- Taking individual responsibility for our own learning
- Cultivating a sense of social and individual responsibility
- Developing reflective, responsible and compassionate citizens
- Playing a leadership role in the larger community
- Embracing thoughtful change and innovation

STRATEGIC PLAN AND EDUCATIONAL MASTER PLAN

The college's current Strategic Plan and the Educational Master Plan can be accessed on the college website, www.chabotcollege.edu, or by calling (510) 723-6640.

INSTITUTIONAL LEARNING OUTCOMES

Global and Cultural Involvement

- Awareness of how diverse ethnic and cultural backgrounds impact global, cultural and ethnic perspectives.
- Understanding of diverse philosophies, cultures and ways of life.
- Familiarity with multiple paradigms and methodologies

Civic Responsibility

- Informed citizenship in a democracy (cultural, economic, historical and political)
- Awareness of environmental issues and issues specific to the local community.
- Promoting the development of values, integrity, and ethical behavior

Communication

- Using computers and other information technology effectively
- Reading effectively
- Respectful and ethical communication
- Speaking effectively
- Writing effectively

Critical Thinking

- Analysis of multiple paradigms and methodologies
- Evaluating, analyzing, and questioning information from various sources for validity.
- Applying logic and reasoning.
- Problem solving
- Quantitative and qualitative reasoning

Development of the Whole Person

- Developing creative and innovative abilities
- Integration of mind, body, and spirit for healthy quality of life
- Developing clear education and career goals.
- Timeliness and punctuality



STATEMENT OF THE OBJECTIVES OF THE GENERAL EDUCATION PROGRAM

General education programs have come to be accepted as a significant part of the program of studies in American colleges and universities. The term general education refers to a program of studies which introduces the student to areas of study that mature the mind, enrich family and widen social and ethnic relationships, and develop skills and aptitudes that can aid the student in furthering personal and social usefulness, and to live in the environment as a thinking and contributing citizen.

It is a program, furthermore, that activates the imagination, deepens the perspective of life, and gives life direction and purpose. The general education program is eminently well suited to a democracy where every person is eligible to enjoy the cultural riches of the world and to become a useful citizen in dealing with local, national and world economics, cultural, social and political problems.

EDUCATIONAL PROGRAM

In keeping with its Philosophy and Objectives, Chabot College offers a two-year curriculum designed to (1) permit students to transfer typically as juniors, to leading four-year colleges and universities; (2) provide technical training to prepare students for employment in occupations requiring two years of study or less, or to assist persons already employed; (3) make continuing education available to residents desiring to increase their knowledge and skills. (A list of Degree and Certificate Programs may be found on pages 30–32). Special courses and instructional services are also available to students with ethnic interests.

CITIZENS' ADVISORY BOARDS

Citizens' Advisory Boards, composed of leaders in business, industry, labor, public agencies, and the professions are working with the administration to develop curricula.

The Advisory Boards assure that instructional programs are developed in accordance with the needs of business, industry and professions in the District.

The Advisory Boards advise the colleges on the need or desirability of a particular educational program or course, content of such programs or courses, performance standards, equipment and facilities, selection of students, placement of students, technical information evaluation, teacher recruitment and financial and legislative matters.

The following advisory boards and committees presently operate: Accounting and Business, Administration of Justice, Architectural, Automotive Technology, Computer Applications Systems, Dental Health Programs, Disabled Students Programs and Services, Early Childhood Development, Electronics, Engineering, EOPS/CARE/CalWORKs, Film Production, Fire Technology, Graphic Design, Human Services, Interior Design, Machine Tool Technology, Medical Assisting, Nursing, Radio and Television Broadcasting, Real Estate, Service to Seniors, Welding Technology. As new needs are identified, other Advisory Boards will be appointed to assist the college in developing appropriate programs.

CHABOT COLLEGE

Chabot College offers students a unique educational opportunity. The facilities have been planned to take advantage of new approaches to learning, to facilitate the development of experimental programs and to be adaptable to changes brought about by new technology.

As the college's population has grown since its opening in 1961, many modifications have taken place to accommodate changing curriculum and to help ensure students' academic success. For additional help with their studies, students can now visit Building 100 for the Learning Connection (tutoring across the curriculum), WRAC Center (Writing and Reading Across the Curriculum) and Language Center (ESL) all located in Building 100, the STEM Center (tutoring in mathematics, chemistry and Life Sciences) in Building 3900, or the Communication Studies Lab in Building 800. (For more information on The Learning Connection, go to Page 51. The Disabled Student Resource Center (Building 2400) offers high-tech equipment and personal counseling. The Employment and Career Services Center helps students find jobs and look toward their future. A state-of-the-art computer lab in the Library has more than 120 Internet-ready computers available to students, along with other computer labs.

The Media Center contains a television studio equipped to send closed circuit educational television programs to many classrooms throughout the campus and to send programming over cable television.

Work was completed on a \$6 million project to remove architectural barriers to disabled students which includes the construction of elevators, and installation of new door knobs and electric doors, and renovation of 70 restrooms.



In 1999, a 40,000 square-foot computer and science building was added to the campus. Many other buildings are under renovation or construction since the passage of the district's facilities bond in 2004. In the 2009-10 academic year, the campus opened two new facilities: a 33,500 square-foot Instructional Office Building (IOB), Building 400, and the 51,000 square-foot-Community and Student Services Center (CSSC), Building 700. Both buildings are state of the art- the IOB built to LEED Silver standards and the CSSC receiving a LEED Platinum Certification.

Campus buildings house classrooms and laboratories for social science, language arts, humanities, international language, art, music, drama, physics and mathematics and physical education. Additional buildings house the student center, and faculty and administration offices.

Special features include a planetarium, two gymnasiums, five athletic fields, tennis courts, strength training facilities, a 400-meter track, and a state-of-the-art fitness center.

The Reed L. Buffington Visual and Performing Arts Center, originally financed jointly under an agreement with the Hayward Area Recreation and Park District, is the largest central East Bay venue available for corporate meetings, conferences, public performances, and fundraising events. It includes a 200-seat stage and a 1,432-seat auditorium, and offers extensive backstage features, onsite professional support staff, and inexpensive parking.

LIBRARY

The Chabot College Library is located in Building 100 and offers an extensive range of services to students, faculty, and staff. Print, non-print and electronic resources are available. Password-free wi-fi is available throughout the library. Remote access to many of these resources is available. This includes the catalog of books and audio-visual materials, in addition to the e-book, magazine, journal, newspaper and video streaming databases. The resources are available via the library's web page www.chabotcollege.edu/library. Contact the reference desk for details (510) 723-6764. Librarians provide instruction in library research skills courses, and in collaboration with instructional faculty, offer orientations tailored to specific class needs. Also available for checkout are laptops, tablets, and other electronic devices. Additionally, the Library has a large student computer lab, an audio-visual center, and group study rooms.

MEDIA SERVICES CENTER

The center provides multimedia products and services designed to support and enhance faculty instruction, class projects, and campus events. Some of the services provided are graphic arts, desktop publishing, offset printing, digital reproduction, media installation and circulation, and audio-visual system maintenance.

OFF-CAMPUS PROGRAMS

Chabot College offers a number of classes at various locations in Hayward and in surrounding communities. The San Leandro Center, located 8 miles north of the Hayward campus at 1448 Williams Street in San Leandro, is our newest location in the community, and has now served over 500 students. The Center offers a wide range of Chabot courses that meet requirements for four-year college and university transfer, general education, and the AA/AS degree or certificate.

DISTANCE EDUCATION

Distance Education (DE) is an alternative mode of course delivery which provides students a flexible means of receiving education. At Chabot College, DE courses are presented in online, telecourse, CD-ROM, and multimedia formats.

THE OCCUPATIONAL WORK EXPERIENCE PROGRAM

The Occupational Work Experience Program enjoys a wide participation from business, industry, and all levels of Governmental agencies. The program enables students to apply their classroom instruction to related career employment for training and experience. The opportunity to examine and utilize the latest techniques, procedures, and equipment in community agencies and business firms makes the student's classwork even more functional and relevant. Close coordination and supervision by the college insures that the Work Experience Program becomes a real learning opportunity related to that area of the student's studies.

RELATED OCCUPATIONAL WORK EXPERIENCE COURSES

The plan allows students to concurrently enroll in college courses while working. The course descriptions are found on page 82.

Work Experience Education is a requirement for graduation in many of the occupational programs at the college. Students majoring in a program requiring Work Experience should enroll in that program's Work Experience course. All other students seeking elective or transferable credit may enroll in the Occupational Work Experience Courses.

Regulations governing the operation of Work Experience Education programs require that students meet the following:

1. Pursue a planned program of Work Experience which includes new or expanded responsibilities or learning opportunities beyond those experienced during periods of previous employment.
2. Have paid or volunteer employment in a field directly related to the college major.
3. Have the approval of the instructor/coordinator.

Additionally students must meet the following:

1. Students must be enrolled in a minimum of 7 units including Work Experience.
2. Be currently enrolled in a course in their major or planned academic program which is related to the Work Experience.



Under the Program one unit of credit is granted for 5 hours of work each week to a maximum of 3 units for 15 or more hours each week. Students must also attend a one-hour weekly seminar class. A cumulative total of 16 units may be earned (including the seminar units).

Additional information may be obtained from the Office of the Dean of Applied Technology and Business at (510)723-6653.

GENERAL EXPENSES

Every effort is made by the colleges to keep student expenses as low as possible. Major costs will be for books, supplies, and enrollment fees. Students who desire to park on college parking lots must also purchase a parking permit. The total cost to a typical full-time student for these things is estimated to be \$800 per semester or \$1,600 per year. Partial costs of some textbooks can be recovered by reselling them to the college. Students are encouraged, however, to retain their books for future reference. Costs for room, board, transportation, clothing, recreation, medical and dental care, phone calls, postage, and spending money must be considered as standard living expenses incurred by all college students.

FEES (SUBJECT TO CHANGE)

Enrollment Fee: \$46.00 per unit.

Nonresident Tuition: Out-of-state students are required to pay \$243.00 per semester unit in addition to the enrollment fee and basic fees.

International, Non-immigrant Visa Tuition: International students and non-immigrant aliens attending on other visa types are required to pay \$243.00 per semester unit in addition to the enrollment fee and basic fees.

Student Body Fee: This is an optional \$10.00 fee.

Parking Fees: Students who wish to park their vehicles on College parking lots must purchase their parking permit or a ticket for each day that parking is desired. The fee is \$30.00 per semester for 4-wheeled vehicles; \$15.00 per semester for motorcycles, and \$2.00 for daily parking.

Student Health Fee: Mandatory health service fee of \$17 per semester and \$15 for Summer Session to support health services for enrolled students. Information on exemptions may be obtained from the Director of Student Life, Room 2355, Building 2300.

Admissions and Records Fees:

Transcripts	\$3.00
On-demand transcript (includes one copy of transcript)	\$10.00
Application fee for international students	\$100.00

Fees Are Subject To Change

Enrollment fees are regulated by the State budget. The college reserves the right to collect enrollment fee increases approved by the State Legislature from all students including those who have paid fees prior to the implementation of new rates. Updates to fee information will be made available on the College website at www.chabotcollege.edu or by contacting the Office of Admissions and Records.

DEGREES AND CERTIFICATES

The academic and vocational programs at Chabot College reflect the diverse educational/career goals of our student population. Whether students are attending Chabot College to prepare to transfer to a four-year institution, gaining technical skills to enter a vocational field, or enriching their lives by pursuing an individualized education plan, they have the opportunity to have their efforts acknowledged by being awarded an Associate Degree, a Certificate of Achievement or a Certificate of Proficiency.

Application for Degrees and Certificates requires the student to submit a petition in the admission and records office by the appropriate date. (Students should refer to the College Calendar to verify dates.)



The program of study leading to the **Associate in Arts Degree (AA)** and the **Associate in Science Degree (AS)** has two primary components, (1) a focus of study in some field of knowledge (the major or Area of Emphasis) and (2) a broad exposure to additional subject areas that are designed to prepare the student to acquire a greater understanding of the self, the physical and the social world (general education requirements). The **Associate in Arts for Transfer (AA-T)** and the **Associate in Science for Transfer (AS-T)** are programs intended for students who plan to complete a bachelor's degree in a similar major at a CSU. Students are eligible to receive an Associate in Arts or Associate in Science Degree after they have successfully completed an outlined program of study of a minimum of 60 semester units with a grade-point average of 2.0 or better and meet the graduation requirements for the AA or AS as set forth on pages 17-20. Students are eligible to receive an Associate in Arts for Transfer or Associate in Science for Transfer after they have successfully completed 60 CSU transferable units with a grade point average of 2.0 or better and have completed either the CSU General Education Breadth (CSU-GE) or the CSU Intersegmental General Education Transfer Curriculum (IGETC) and completed with a letter grade of "C" or better all required major courses as listed for their chosen major.

A **Certificate of Achievement** is designed to offer the student an opportunity to develop skills in a specific focus. A Certificate of Achievement is awarded to those students who have successfully completed a specifically approved program of courses, with a grade-point average of 2.0.

A **Certificate or Certificate of Proficiency** is designed to augment other degrees or occupational areas by targeting a very specific series of courses in the academic, vocational and/or technical field. A Certificate or Certificate of Proficiency is awarded to those students who have completed a minimum of 10 semester units of specifically approved courses, with a grade-point average of 2.0.



Please note: Certificates of Proficiency and Certificates are not posted on the student's transcript per Title 5 §55070(b). Certificates requiring fewer than 16 semester units are ineligible for federal or state financial aid other than the BOGG fee waiver program.

An **Individual Occupational Major** may be developed with a counselor, for approval by the appropriate Division Dean and the Dean of Counseling.

Residency Requirements: In order to be issued a degree or certificate, students earning a certificate, Associate in Science, or Associate in Arts degree in an Occupational/Technical area must complete a minimum of 12 units in residency at Chabot College within the degree major or certificate program. Students in articulated degree/transfer or Liberal Arts programs will need a total of 12 units of residency at Chabot College in general education, major, or elective courses. Students earning an AS degree in Engineering are required to complete the following courses at Chabot College: ENGR 25, ENGR 36, ENGR 43 and ENGR 45.

CATALOG REQUIREMENTS AND CONTINUOUS ATTENDANCE

A student in continuous attendance in regular semesters may, for the purpose of meeting degree or certificate requirements, elect to meet the requirements in effect at any time during their period of continuous attendance at Chabot-Las Positas Community College District.

Graduation requirements are listed in the catalog. If a break in attendance occurs before graduation requirements have been met, the graduation requirements which shall apply to the student are those listed in the catalog in force at the time continuous studies are resumed.

Continuous attendance is defined as enrollment in at least one semester during the academic year on a continuing basis without a break of more than one semester excluding summer session. Any academic record symbol (A-F, P, NP, I, IP, RD, W) shall constitute enrollment. A student who drops out for one academic year or more is considered to be a returning student and would follow the catalog in effect at the time of their return and would follow the catalog in effect at the time of their return.

The Chabot-Las Positas Community College Catalog Requirements and Continuous Attendance policy does not necessarily apply to requirements in effect at transfer institutions. Courses applicable toward major and General Education requirements may change. Students who are planning to transfer are advised to consult the catalog of the university to which they will transfer.



Program	Associate in Arts		Associate in Science		Certificate of Achievement	Certificate of Proficiency*	Certificate*
	AA	AA-T	AS	AS-T			
Accounting			X				
Accounting Technician					X		
Administration of Justice	X			X			
Administrative Assistant			X		X		
Administrative Assistant Entrepreneur						X	
Anthropology	X	X					
Aquatics					X	X	
Architecture	X		X				
Architecture Technology					X		
Art (General)	X						
Art—Emphasis in Ceramics	X						
Art—Emphasis in Painting	X						
Art—Emphasis in Sculpture	X						
Art History	X						
Audio Recording						X	
Automotive Technology			X				
Automotive Technology (Emphasis in BMW Manufacture Training)			X				
Automotive Maintenance Technology					X		
Automotive Chassis Technology					X		
Automotive Drivetrain Technology					X		
Automotive Engine Performance Technology					X		
Automotive Service Consulting					X		
Automotive Technology Entrepreneur						X	
BMW Manufacture Training					X		
Behavioral Science (General)	X						
Biology	X			X			
Biology—Emphasis in Allied Health	X						
Bookkeeping					X		
Business			X				
Business—Emphasis, Management			X				
Business—Emphasis, Marketing			X				
Business—Transfer					X		
Business Administration				X			

*Certificates of Proficiency and Certificates are not posted on the student's transcript per Title 5§55070(b).



DEGREES AND CERTIFICATES

Program	Associate in Arts		Associate in Science		Certificate of Achievement	Certificate of Proficiency*	Certificate*
	AA	AA-T	AS	AS-T			
Business Graphics						X	
CPA Exam Preparation: Business Environment and Regulation						X	
CPA Exam Preparation: Financial Accounting and Auditing						X	
California State University General Education Breadth (CSU/GE Breadth)					X		
Case Management for Human Services						X	
Chemistry			X				
Coaching					X	X	
Communication Studies		X					
Computer Science (General)	X		X				
Consumer Technology					X		
Consumer Technology Entrepreneur						X	
Creative Writing							X
Dental Hygiene	X						
Digital Design						X	
Digital Media							X
Early Childhood Development	X						
Early Childhood Development (Basic Teacher)					X		
Early Childhood Development (Associate Teacher)						X	
Early Childhood Education				X			
Early Childhood Intervention	X						
Early Childhood Intervention Assistant					X		
Economics		X					
Electronic Systems Technology			X				
Engineering			X				
English		X					
English—Emphasis in Literature	X						
Entrepreneurship						X	
Environmental Studies	X						
Ethnic Studies	X						
Fire Technology	X		X		X		
Fire Prevention Inspector	X		X		X		
Fitness Instructor					X	X	

*Certificates of Proficiency and Certificates are not posted on the student's transcript per Title 5§55070(b).



Program	Associate in Arts		Associate in Science		Certificate of Achievement	Certificate of Proficiency*	Certificate*
	AA	AA-T	AS	AS-T			
Forensics						X	
French	X						
Game Audio						X	
Geographic Information Systems						X	
Geography	X	X					
Graphic Design	X					X	
Health Care Management					X		
Human Resources Assistant					X		
Human Services (see also Case Management and Multi- cultural Awareness)	X		X				
Humanities (General)	X						
Hybrid and Alternative Fuel Vehicles					X		
Illustration							X
Industrial Electronic Technology					X		
Industrial Technology			X				
Information Technology			X		X		
Information Technology Support Entrepreneur					X		
Inspection and Pipe Welding						X	
Interior Design			X		X		
International Studies	X						
Interpersonal Communication						X	
Intersegmental General Ed Transfer Curriculum (IGETC)					X		
Journalism	X	X					
Kinesiology		X					
Kitchen and Bath Design					X		
Liberal Arts	X						
Liberal Studies—Elementary Teacher Preparation	X						
Machine Tool Technology			X				
Machinist					X		
Management					X		
Marketing					X		
Mass Communications	X						
Mathematics	X		X	X			
Medical Assisting	X				X		

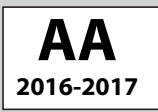
*Certificates of Proficiency and Certificates are not posted on the student's transcript per Title 5§55070(b).



DEGREES AND CERTIFICATES

Program	Associate in Arts		Associate in Science		Certificate of Achievement	Certificate of Proficiency*	Certificate*
	AA	AA-T	AS	AS-T			
Multicultural Awareness/Relations for the Service Provider						X	
Multicultural Awareness/Self-Reflection						X	
Music	X	X					
Music Industry Entrepreneur						X	
Music Production						X	
Numerical Control			X				
Numerical Control Programmer (Machinist)					X		
Nursing	X						
Nursing Program, LVN Pathway for Associate in Arts	X						
Office Technology					X	X	
Personal Fitness Training Entrepreneur						X	
Photography	X					X	
Physical Education	X						
Political Science		X					
Program Management							X
Psychology		X					
Radio and Television Broadcasting	X						
Real Estate	X				X	X	
Real Estate Entrepreneur						X	
Retail Management			X		X		
Retailing						X	
Rhetoric						X	
Small Business Management					X		
Social Science (General)	X						
Sociology		X					
Software Specialist			X		X		
Spanish	X	X					
Speech Communication	X						
Sports Injury Care					X	X	
Studio Arts		X					
Theatre Arts	X	X					
Tool Maker					X		
Welding						X	
Welding Technology			X				
Writing							X

*Certificates of Proficiency and Certificates are not posted on the student's transcript per Title 5555070(b).



ASSOCIATE IN ARTS (AA) DEGREE GRADUATION REQUIREMENTS

Effective Fall 2016, Spring 2017, Summer 2017

Majors Using the Associate in Arts (AA) General Education (GE) Pattern

Administration of Justice*	Computer Science	Geography	Music
Anthropology (non-AA-T)	Dental Hygiene	Graphic Design	Nursing
Architecture	Early Childhood Development* (non-AS-T)	Human Services*	Photography
Art (General)	Early Childhood Intervention*	Humanities	Physical Education
Art-Emphasis in Ceramics	English-Emphasis in Literature	International Studies	Radio & TV Broadcasting
Art –Emphasis in Painting	Environmental Studies	Journalism (non-AA-T)	Real Estate*
Art-Emphasis in Sculpture	Ethnic Studies	Liberal Arts	Social Science
Art History	Fire Prevention Inspector*	LVN-ADN (Nursing)	Spanish (non-AA-T)
Behavioral Science	Fire Technology*	Mass Communications	Speech Communication (non-AA-T)
Biology	French	Mathematics (non-AS-T)	Theater Arts (non-AA-T)
Biology-Emphasis in Allied Health		Medical Assisting (MEDA)*	

AA Degree Graduation & Proficiency Requirements

Complete the following:

- General Education (GE) Requirements**
- Major Course Requirements**
- Unit Requirement:** 60 semester college-level units
- Grade Point Average (GPA) Requirement:** Overall 2.0 or higher.
 - Each course listed below completed with a grade of "C" (or "P") or higher:
 - English Composition
 - American Cultures
 - Math Proficiency
 - All courses required for the major
- Units in Residence Requirement:** Minimum 12 semester units completed at Chabot College
 - Occupational Technical majors must complete at least 12 units at Chabot College in the courses required for their major. Occupational Technical majors are noted with an asterisk (*) above.

Frequently Asked Questions

- How can I find out if my courses from another college apply toward a degree at Chabot College?**
Contact the Office of Admission at *each* college you have previously attended and request *official* transcripts to be sent to the Chabot College Office of Admissions. Once Chabot College receives all transcripts, contact the Chabot Counseling Office for an appointment with a counselor for an unofficial evaluation of your transcripts.
- I plan to earn an Associate Degree for Transfer (AA-T/AS-T). Should I follow the GE courses on this flyer?**
NO. For the transfer AA-T/AS-T degrees, complete one of the following **transfer** general education (GE) patterns:
 - California State University General Education Breadth Requirements (CSU GE Breadth);
 - or
 - Intersegmental General Education Transfer Curriculum (IGETC)
- How do I apply for graduation (and the commencement ceremony)?**
If you attended other colleges, all *official* transcripts must be on file at the Chabot College Admissions Office. Complete a *Request for Degree or Certificate* form (available under "forms" on the Admissions Office website) no later than the fifth week of the fall or spring semester (summer term deadline will be earlier). Commencement is held in late May/early June.



AA
2016-2017

GENERAL EDUCATION FOR ASSOCIATE IN ARTS DEGREE

Effective Fall 2016, Spring 2017, Summer 2017

Use the columns at the right to record your progress: C=Completed IP=In Progress N=Need			C	IP	N
Courses marked with an asterisk () may only be used in ONE GE area					
Underlined courses indicate a lab					
A. LANGUAGE AND RATIONALITY					
A1. English Composition -- Complete one course (3 units) with a grade of "C" or higher					
English 1A					
A2. Writing and Critical Thinking -- Complete one course (3 units)					
Business 10	German 2A*, 2B*	Italian 2A*, 2B*			
English 4, 7	French 2A*, 2B*	Spanish 2A*, 2B:			
A3. Communication and Analytical Thinking -- Complete one course (3 units)					
Architecture 68	Entrepreneurship 30	Japanese 1A*, 1B*			
Business 14, 16, 31	French 1A*, 1A1*, 1A2*, 1B*, 1B1*, 1B2*	Mass Communications 43, 44			
Chinese 1A*, 1B*	Geography 20*, 21*, 22*	Mathematics 1, 2, 15, 16, 20, 31, 33, 36, 37, 40,			
Communication Studies 1, 2*, 10, 11*, 20, 46	German 1A*, 1B*	41, 43, 47, 53, 53A, 53B, 54, 54L, 55, 55L, 57, 65,			
Computer Application Systems 50, 92A, 92B, 92C, 92D	History 5*, 12*	65B, 65L			
Computer Science 8, 10, 14, 15, 19A	Industrial Technology 74	Psychology 5			
English 70	Interior Design 68	Spanish 1A*, 1A1*, 1A2*, 1B*, 1B1*, 1B2*,			
	Italian 1A*, 1B*	Theater 3, 7*			
B. NATURAL SCIENCES -- Complete one course (3 units). <i>A lab is not required for the associate degree, however, underlined courses indicate a lab.</i>					
Anatomy 1	Chemistry <u>1A, 10, 30A, 30B, 31</u>	Physical Science <u>15</u>			
Anthropology 1*, <u>1L</u> , 13	Environmental Science 10, <u>1L</u> , 12, 15, <u>15L</u>	Physics <u>2A, 3A, 3B, 4A, 4B, 4C, 5, 11</u>			
Astronomy 10, 20, <u>30</u>	Geography 1*, <u>1L</u> , 8, 13, 20*, 21*, 22*	Physiology <u>1</u>			
Biology <u>2, 4, 6, 10, 25, 31, 50</u>	Kinesiology <u>2</u>	Psychology 4*			
Biotechnology <u>20, 30, 40</u>	Microbiology <u>1</u>				
C. HUMANITIES -- Complete one course (3 units)					
Architecture 2A, 2B, 4A, 4B, 8A, 8B, 12, 14, 16	General Studies 31	Philosophy 50, 60, 65, 70			
Art 2A, 3A, 16A, 17A, 22, 23, 24, 54, 56, 57, 58, 59	German 1A*, 1B*, 2A*, 2B*	Photography 20, 50, 53A			
Art History 1, 4, 5, 6, 8, 7, 20, 50A, 51A,	History 1*, 2*	Religious Studies 50, 64, 65, 70, 72			
Chinese 1A*, 1B*	Humanities 50, 60, 65, 68, 72	Sign Language 64, 65, 66			
Communication Studies 2*, 5, 6	Italian 1A*, 1B*, 2A*, 2B*	Spanish 1A*, 1A1*, 1A2*, 1B*, 1B1*, 1B2*, 2A*,			
English 11A, 12A, 13A, 20, 21, 22, 24, 25, 26, 28, 31, 32, 35,	Interior Design 52	2B*, 5			
41, 45, 48	Japanese 1A*, 1B*	Theater Arts 1, 4, 7*, 10, 11, 12, 21, 22, 47A, 48A,			
Film 14, 50, 60	Music (MUSA) 40	50A			
French 1A*, 1A1*, 1A2*, 1B*, 1B1*, 1B2*, 2A*, 2B*	Music (MUSL) 1, 2A, 2B, 2C, 2D, 3, 4, 5, 8				
	Music (MUSP) 12, 14, 44, 45				
D. SOCIAL AND BEHAVIORAL SCIENCES -- Complete one course (3 units)					
Administration of Justice 45, 50, 60, 70	Economics 1, 2, 10	Mass Communications 40, 41			
Anthropology 1*, 2, 3, 4, 5, 7, 8, 12	Entrepreneurship 1, 5	Political Science 1*, 10, 12*, 20, 25, 30, 45			
Business 12, 17, 20, 36, 40, 42	Ethnic Studies 1, 2, 3, 21*, 25*, 22*	Psychology 1, 2, 3, 4*, 6, 8, 12, 33, 45			
Communication Studies 11*, 12, 50	Geography 1*, 2, 3, 5, 10, 12, 21*, 22*	Psychology-Counseling 1, 4, 13			
Early Childhood Development 40, 52, 56, 62, 69, 79, 87	Health 8	Sociology 1, 2, 3, 4, 5, 6, 8, 10, 30			
	History 1*, 2*, 3, 4, 5*, 7*, 8*, 12*, 19, 20*, 21*,				
	22*, 25*, 27*				
E. WELLNESS					
E1. Areas of Health -- Complete one course (3 units)					
Early Childhood Development 54	Kinesiology 14, 19, 24	***NOTE: The E1. Areas of Health is not required for students earning an AA Degree in Nursing or Dental Hygiene.			
Fire Tech 7	Nutrition 1				
Health 1, 4					
E2. Physical Education Activity -- Complete one course (1 unit) **					
Complete one unit of a physical education activity course with a prefix of: ADPE, ATHL, DANC, PEAC; or one unit from: FT 88A, 88B, 88C, 88D.					
**PE exemptions: Students with AA/AS degree or higher or for a verified illness/physical disability. Complete a "Request for Course Waiver" in the Counseling Office.					
F. AMERICAN INSTITUTIONS -- Complete one course (3 units)					
History 7*, 8*, 12*, 20*, 21*, 22*, 25*, 27* or Ethnic Studies 21*, 25*, 22* or Political Science 1*, 12*					
AMERICAN CULTURES -- Complete one course with a grade of "C" or "P" or higher. <i>Courses below that are listed in other GE areas can satisfy two requirements.</i>					
Anthropology 5	History 5, 7, 8, 12, 27	***IMPORTANT: Courses taken at Las Positas College, <u>even with the same course name and number</u> , may not satisfy this requirement. See a counselor for assistance.			
Art History 7	Humanities 65				
Communication Studies 11	Music (MUSL) 8				
Early Childhood Development 79	Psychology-Counseling 1, 4, 13				
English 26, 32	Sociology 1, 3, 30				
Ethnic Studies 1					
MATHEMATICS PROFICIENCY -- Complete one course listed below with a grade of "C" or "P" OR demonstrate math proficiency (see below). Chabot College Math Division Proficiency Test will NOT satisfy the math requirement for transfer.					
1. Mathematics 1, 2, 15, 16, 20, 31, 33, 36, 37, 41, 43, 47, 53B, 54, 54L, 55, 55L, 57, Psychology 5, OR					
2. Pass the Math Proficiency Test (see Math Division Office, Building 2000 for information)					



AS
2016-2017

ASSOCIATE IN SCIENCE (AS) DEGREE GRADUATION REQUIREMENTS

Effective Fall 2016, Spring 2017, Summer 2017

Majors Using the Associate in Science (AS) General Education (GE) Pattern

Accounting* Administrative Assistant* Architecture Automotive Technology* Automotive Technology – BMW* Business –General* Business- Management* Business- Marketing*	Chemistry Computer Science Electronic Systems Technology* Engineering (ENGR)* Entrepreneurship Fire Prevention Inspector* Fire Technology* Human Services*	Industrial Technology* Interior Design* Machine Tool Technology* Mathematics Numerical Control* Retail Management* Software Specialist* Welding Technology*
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AS Degree Graduation & Proficiency Requirements

Complete the following:

1. **General Education (GE) Requirements**
2. **Major Course Requirements**
3. **Unit Requirement:** 60 semester college-level units
4. **Grade Point Average (GPA) Requirement:** Overall 2.0 or higher.
 - a. Each course listed below completed with a grade of "C" (or "P") or higher:
 - i. English Composition
 - ii. American Cultures
 - iii. Math Proficiency
 - iv. All courses required for the major
5. **Units in Residence Requirement:** Minimum 12 semester units completed at Chabot College
 - a. Occupational Technical majors must complete at least 12 units at Chabot College in the courses required for the major. Occupational Technical majors are noted with an asterisk (*) above.
 - b. AS Engineering – see Chabot College Catalog for ENGR courses required to be completed at Chabot

Frequently Asked Questions

1. **How can I find out if my courses from another college apply toward a degree at Chabot College?**
 Contact the Office of Admission at *each* college you have previously attended and request *official* transcripts to be sent to the Chabot College Office of Admissions. Once Chabot College receives all transcripts, contact the Chabot Counseling Office for an appointment with a counselor for an unofficial evaluation of your transcripts.
2. **I plan to earn an Associate Degree for Transfer (AA-T/AS-T). Should I follow the GE courses on this flyer?**
NO. For the transfer AA-T/AS-T degrees, complete one of the following **transfer** general education (GE) patterns:
 - California State University General Education Breadth Requirements (CSU GE Breadth);
 - OR**
 - Intersegmental General Education Transfer Curriculum (IGETC)
3. **How do I apply for graduation (and the commencement ceremony)?**
 If you attended other colleges, all *official* transcripts must be on file at the Chabot College Admissions Office. Complete a *Request for Degree or Certificate* form (available under "forms" on the Admissions Office website) no later than the fifth week of the fall or spring semester (summer term deadline will be earlier). Commencement is held in late May/early June.



AS
2016-2017

GENERAL EDUCATION FOR ASSOCIATE IN SCIENCE DEGREE

Effective Fall 2016, Spring 2017, Summer 2017

Use the columns at the right to record your progress: C=Completed IP=In Progress N=Need			C	IP	N
Courses marked with an asterisk () may only be used in ONE GE area					
Underlined courses indicate a lab					
A. LANGUAGE AND RATIONALITY					
A1. English Composition -- Complete one course (3 units) with a grade of "C" or higher					
English 1A					
A2. Communication and Analytical Thinking -- Complete one course (3 units)					
Architecture 68 Business 14, 16, 31 Chinese 1A*, 1B* Communication Studies 1, 2*, 10, 11*, 20, 46 Computer Application Systems 50, 92A, 92B, 92C, 92D Computer Science 8, 10, 14, 15, 19A English 70	Entrepreneurship 30 French 1A*, 1A1*, 1A2*, 1B*, 1B1*, 1B2*, Geography 20*, 21*, 22* German 1A*, 1B* History 5*, 12* Industrial Technology 74 Interior Design 68 Italian 1A*, 1B*	Japanese 1A*, 1B* Mass Communications 43, 44 Mathematics 1, 2, 15, 16, 20, 31, 33, 36, 37, 40, 41, 43, 47, 53, 53A, 53B, 54, 54L, 55, 55L, 57, 65, 65L Psychology 5 Spanish 1A*, 1A1*, 1A2*, 1B*, 1B1*, 1B2* Theater 3, 7*			
B. NATURAL SCIENCES -- Complete one course (3 units). <i>A lab is not required for the associate degree, however, underlined courses indicate a lab.</i>					
Anatomy 1 Anthropology 1*, 1L, 13 Astronomy 10, 20, 30 Biology 2, 4, 6, 10, 25, 31, 50 Biotechnology 20, 30, 40	Chemistry 1A, 10, 30A, 30B, 31 Environmental Science 10, 11, 12, 15, 15L Geography 1*, 1L, 8, 13, 20*, 21*, 22* Kinesiology 2 Microbiology 1	Physical Science 15 Physics 2A, 3A, 3B, 4A, 4B, 4C, 5, 11 Physiology 1 Psychology 4*			
C. HUMANITIES -- Complete one course (3 units)					
Architecture 2A, 2B, 4A, 4B, 8A, 8B, 12, 14, 16 Art 2A, 3A, 16A, 17A, 22, 23, 24, 54, 56, 57, 58, 59 Art History 1, 4, 5, 6, 8, 7, 20, 50A, 51A, Chinese 1A*, 1B* Communication Studies 2*, 5, 6 English 11A, 12A, 13A, 20, 21, 22, 24, 25, 26, 28, 31, 32, 35, 41, 45, 48 Film 14, 50, 60 French 1A*, 1A1*, 1A2*, 1B*, 1B1*, 1B2*, 2A*, 2B*	General Studies 31 German 1A*, 1B*, 2A*, 2B* History 1*, 2* Humanities 50, 60, 65, 68, 72 Italian 1A*, 1B*, 2A*, 2B* Interior Design 52 Japanese 1A*, 1B* Music (MUSA) 40 Music (MUSL) 1, 2A, 2B, 2C, 2D, 3, 4, 5, 8 Music (MUSP) 12, 14, 44, 45	Philosophy 50, 60, 65, 70 Photography 20, 50, 53A Religious Studies 50, 64, 65, 70, 72 Sign Language 64, 65, 66 Spanish 1A*, 1A1*, 1A2*, 1B*, 1B1*, 1B2*, 2A*, 2B*, 5 Theater Arts 1, 4, 7*, 10, 11, 12, 21, 22, 47A, 48A, 50A			
D. SOCIAL AND BEHAVIORAL SCIENCES -- Complete one course (3 units)					
Administration of Justice 45, 50, 60, 70 Anthropology 1*, 2, 3, 4, 5, 7, 8, 12 Business 12, 17, 20, 36, 40, 42 Communication Studies 11*, 12, 50 Early Childhood Development 40, 52, 56, 62, 69, 79, 87	Economics 1, 2, 10 Entrepreneurship 1, 5 Ethnic Studies 1, 2, 3, 21*, 25*, 22* Geography 1*, 2, 3, 5, 10, 12, 21*, 22* Health 8 History 1*, 2*, 3, 4, 5*, 7*, 8*, 12*, 19, 20*, 21*, 22*, 25*, 27*	Mass Communications 40, 41 Political Science 1*, 10, 12*, 20, 25, 30, 45 Psychology 1, 2, 3, 4*, 6, 8, 12, 33, 45 Psychology-Counseling 1, 4, 13 Sociology 1, 2, 3, 4, 5, 6, 8, 10, 30			
E. WELLNESS					
E1. Areas of Health -- Complete one course (1 unit)					
Early Childhood Development 54 Fire Tech 7 Health 1, 4 Kinesiology 14, 19, 24 Nutrition 1	OR one unit of a physical education activity course with a prefix of: ADPE, ATHL, DANC, PEAC; or one unit from: FT 88A, 88B, 88C, 88D. **PE/Wellness exemptions: Students with an AA/AS degree or higher or for a verified illness/physical disability. Complete a "Request for Course Waiver" petition in the Counseling Office.				
F. PROGRAM -BASED GENERAL EDUCATION (GE) REQUIREMENT -- Complete one course (3 units)					
To find the program-based GE course requirement, go to the AS major/program page in the current Chabot College Catalog.					
AMERICAN CULTURES -- Complete one course with a grade of "C" or "P" or higher. <i>Courses below that are listed in other GE areas can satisfy two requirements.</i>					
Anthropology 5 Art History 7 Communication Studies 11 Early Childhood Development 79 English 26, 32 Ethnic Studies 1	History 5, 7, 8, 12, 27 Humanities 65 Music (MUSL) 8 Psychology-Counseling 1, 4, 13 Sociology 1, 3, 30	***IMPORTANT: Courses taken at Las Positas College, even with the same course name and number, may not satisfy this requirement. <i>See a counselor for assistance.</i>			
MATHEMATICS PROFICIENCY -- Complete one course listed below with a grade of "C" or "P" OR demonstrate math proficiency (see below). <i>Chabot College Math Division Proficiency Test will NOT satisfy the math requirement for transfer.</i>					
1. Mathematics 1, 2, 15, 16, 20, 31, 33, 36, 37, 41, 43, 47, 53B, 54, 54L, 55, 55L, 57, Psychology 5, OR 2. Pass the Math Proficiency Test (see Math Division Office, Building 2000 for information)					



GENERAL EDUCATION RECIPROcity WITH COMMUNITY COLLEGES

Effective Fall 2007, the Chabot-Las Positas Community College District has entered into a mutual agreement with seven other local community colleges to accept the General Education and graduation proficiency of these colleges as completed for Chabot College and Las Positas College. The participating colleges are: DeAnza College (Cupertino), Evergreen Valley College (San Jose), Foothill College (Los Altos Hills), Gavilan College (Gilroy), Mission College (Santa Clara), Ohlone College (Fremont), San Jose City College (San Jose), and West Valley College (Saratoga).

Students who obtain an official General Education Reciprocity Program Certification (which verifies completion of Associate Degree General Education and graduation proficiency) or complete an associate degree at any one of the participating colleges will have both their General Education coursework and graduation proficiency accepted as completing Chabot College's and Las Positas College's General Education and graduation proficiency for the Associate in Arts and/or the Associate in Science Degree. No additional general education or graduation proficiency course work will be required if the certification is submitted to the Admissions and Records office in a sealed envelope from the sending college mentioned above. Students will still be required to complete all courses or prerequisites needed for a major. The agreement also means that the other participating colleges will accept the General Education and graduation proficiency pattern of Chabot College and Las Positas College if an official General Education Reciprocity Program Certification is presented at any of the member colleges. Students must request certification at Admissions and Records, Building 700. This agreement will be reviewed periodically.

TRANSFER

Chabot College provides the freshman and sophomore years of a baccalaureate degree granting institution (college or university) program. Students intending to transfer to colleges and universities may complete their lower-division major preparatory courses and lower-division general education courses at Chabot College. The General Counseling Division in Building 700, 2nd floor, provides the most current transfer information. The Career and Transfer Center (723-6720) in Building 700, 2nd floor, provides many transfer related activities including transfer workshops, appointments with university representatives, Transfer Day, and field trips to universities.

Students are advised to meet early and regularly with a counselor to ensure a smooth transition to the transfer institution. Counselors and students partner together to develop a Student Educational Plan (SEP) that maps out the courses needed for transfer to intended major(s) at the transfer university(ies).

TRANSFER PREPARATION

The main components of the baccalaureate granting institution lower-division requirements are listed below:

1. **Lower-Division Major Requirement**
Student may need to fulfill specific lower-division courses required for their chosen major (also called "major preparatory courses"). Impacted majors (competitive majors having more applicants than space available) typically require all or most major preparatory courses to be completed by the Spring term, before Fall term transfer.
2. **Lower-Division General Education Requirements**
To earn a bachelor's (BA/BS) degree from a university, each student must complete a program of general education. The pattern for the California State University system is called CSU/General Education (GE) Breadth Requirements. The Intersegmental General Education Transfer Curriculum (IGETC) is a GE pattern acceptable to the University of California (UC) and California State University (CSU) systems. Some California private/independent colleges and universities accept the CSU GE and/or IGETC pattern. Please consult with a counselor for assistance.
3. **Electives**
Electives are courses taken in addition to the lower-division major preparation and general education requirements in order to meet the total number of units to transfer. The CSU transferable course list and/or the UC transferable course list contain all of the courses that transfer to CSU or UC respectively and could be used for electives. Both may also be found online at www.assist.org.
4. **Grade Point Average (GPA)**
Transfer admission at some institutions may be limited to student applicants whose GPA exceeds the minimum required for admission. Some college and majors will limit transfer admissions to those students with the highest grades.





ARTICULATION AND THE TRANSFERABILITY OF CHABOT COLLEGE COURSES

Many courses offered at Chabot College have articulation (course equivalency) agreements with comparable courses offered at the University of California (UC), California State University (CSU) and many private institutions to assure that courses will transfer. The official repository of all Chabot College articulation agreements with CSU and UC can be found at the ASSIST website at www.assist.org. Current UC and CSU transfer flyers outlining some of these agreements are also available in the Career/Transfer Center and Counseling Center (Building 700).

- CSU Transferable Courses flyer (alphabetical listing of all courses transferable to CSU)
- CSU/General Education Breadth Requirements flyer
- UC Transferable Courses flyer (alphabetical listing of all courses transferable to UC)
- IGETC Requirements flyer (General Education requirements for transfer to UC or CSU and some private schools)

THE ARTICULATION OFFICE

The articulation office initiates, updates, and reports articulation (course equivalency) agreements to help facilitate student transfer to baccalaureate-granting colleges and universities, including the California State University, University of California, and some private and out-of-state institutions. These articulation agreements include: general education, course-to-course, and lower-division major preparation, and are housed in the website ASSIST, which is the official repository of articulation agreements for public colleges and universities in the state of California. Students can view articulation agreements on ASSIST at www.assist.org. The articulation office also maintains the college’s transfer flyers (listed above), and provides consultation to counseling faculty, instructional faculty, and students with course transferability and articulation concerns. The articulation office is located within the Counseling Division, Building 700.

CALIFORNIA STATE UNIVERSITY (CSU)

www.calstate.edu
www.csumentor.edu

TRANSFER ADMISSION REQUIREMENTS

If you have completed college units after leaving high school, you are considered a “transfer” student. Students who have completed college units before they graduated from high school or during the summer between high school graduation and CSU enrollment are considered first-time freshmen and must meet those CSU admission requirements for first-time freshman.

There are two types of transfer students, lower-division transfer and upper division transfer. Lower-division transfer students are those who have completed less than 60 transferable semester units (90 quarter units). Upper-division transfers have completed 60 or more transferable semester units (90 quarter units).

LOWER-DIVISION (FRESHMAN/SOPHOMORE LEVEL) TRANSFER ADMISSION REQUIREMENTS

(transferring with less than 60 CSU transferable units):

Lower-Division transfer applicants to the CSU:

- Are transferring with less than 60 CSU transferable units.
- Have a college GPA (grade point average) of 2.0 or higher in all transferable college units completed. Some programs require a higher GPA for admissions. Consult the individual CSU website or college representative for specific information.
- Are in good standing at the last college or university attended, i.e., you are eligible to re-enroll.
- Meet the CSU admission requirements for first-time freshman or have successfully completed necessary course to make up deficiencies you had in high school if you did not complete the 15 course (A-G) pattern of college preparatory subjects.
- Meet the eligibility index required of a first-time freshman to CSU.
- Some CSU campuses require completion of English Composition and GE Math.
- Contact the CSU campus of your choice to determine your status as a lower division transfer student and whether that CSU campus is accepting lower division transfers.





UPPER-DIVISION (JUNIOR LEVEL) TRANSFER ADMISSION REQUIREMENTS

(transferring with 60 or more CSU transferable units):

- Upper-Division (Junior-Level) transfer applicants to the CSU:
- Are transferring 60 or more CSU transferable units.
- Complete Areas A.1.(Oral Communication), A.2. (Written Communication), A.3. (Critical Thinking) and B.4. (Mathematics) all with a grade of “C” or higher.
- Complete an additional 18 units from CSU/GE Areas A-E (including the units from above (12) for a minimum total of 30 units. All courses would need to have a grade of “C” or higher.
- Complete an overall total of 60 semester CSU transferable units with a cumulative GPA of at least a 2.0 (“C”).
- Are in good standing at the last college or university attended, i.e., you are eligible to re-enroll.

NOTES:

For students transferring more than 70 CSU transferable units, individual classes will not be disregarded, however CSU will only apply up to 70 CSU transferable lower-division units toward the baccalaureate degree.

IGETC can be used in lieu of CSU/GE Breadth. Students using IGETC for CSU will need to complete Area A, Group 1C: Communications and are advised to complete the U.S. History, Constitutions and American Ideals section.

GENERAL EDUCATION REQUIREMENTS FOR CALIFORNIA STATE UNIVERSITY

To earn a bachelor’s degree from the California State University, each student must complete a program of general education. Chabot College offers two general education patterns which enable students to complete, prior to transfer, all of the lower-division general education requirements at the CSU. Students can complete either the Intersegmental General Education Transfer Curriculum (IGETC) or the CSU General Education Breadth Requirements (CSU/GE). It is strongly recommended that students consult with a counselor to determine which general education pattern is best for their transfer program.

While not a requirement for admission, California State University does require completion of 6 units of U.S. History, Constitution and American Ideals for graduation from CSU, which can be satisfied prior to transfer. See the IGETC pattern or the CSU/GE Breadth pattern for a list of courses that complete this requirement.

CSU GENERAL EDUCATION BREADTH REQUIREMENTS (CSU GE)

Chabot students have the opportunity to complete all of their lower-division CSU GE requirements for the baccalaureate degree prior to transfer to any of the 23 California State Universities.

CSU GE is separated into five separate academic areas. Each area requires specific class/unit requirements. More detail regarding the academic areas and the courses associated with those areas can be found on our CSU/GE Breadth pattern. Briefly, those areas are:

- Area A: Communications in the English Language (9 semester units)
- Area B: Physical and Life Sciences and Mathematics (9 semester units)
- Area C: Arts, Literature, Philosophy and Foreign Language (9 semester units)
- Area D: Human Social, Political and Economic Institutions and Behavior (9 semester units)
- Area E: Understanding and Self Development (3 semester units)
- Area F: While not a requirement for admission, California State University does require completion of 6 semester units of U.S. History, Constitution and American Ideals for graduation, which can be satisfied prior to transfer. Courses used to complete this area can be also used to satisfy requirements in Area D.

PRIORITY APPLICATION FILING DATES FOR CSU

- Summer Term: Feb. 1 - 28 of that year
 - Fall Semester or Quarter: Oct. 1 - Nov. 30 of prior year
 - Winter Quarter: June 1 - 30 of prior year
 - Spring Semester or Quarter: Aug. 1 - 31 of prior year
- NOTE:** Not all campuses admit students every semester/ quarter

CSU RESOURCES

CSU Mentor – www.csumentor.edu – provides information regarding admission requirements, application deadlines, and specific CSU campuses.





ASSOCIATE IN ARTS FOR TRANSFER (AA-T) AND ASSOCIATE IN SCIENCE FOR TRANSFER (AS-T) DEGREE REQUIREMENTS

www.adegreewithaguarantee.com

www.sb1440.org

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to the California State University (CSU) system for any community college student who completes an “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor’s degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 semester units after transfer to earn a bachelor’s degree (unless the major is a designated “high-unit” major).

Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.



The following are required for all AA-T and AS-T degrees:

- Completion of a minimum of 60 CSU-transferable semester units.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
- Completion of a minimum of 18 semester units with a “C” or higher in the major or an area of emphasis (a letter grade is required for each class in the major. A grade of “P” will not be acceptable. However “P” grades can be used for courses satisfying CSU/GE or CSU transferable elective units.
- Completion of CSU/GE or IGETC (CSU). At Chabot College, students using IGETC to earn the AA-T/AS-T need to complete IGETC for CSU (ie. Complete IGETC Area A, Group 1C: Oral Communication)

NOTES:

Students receiving the AA-T or AS-T do not have to have their General Education courses certified. Associate Degree for Transfer is posted on their transcript which is accepted by CSU as completing admissions and lower division general education requirements.

Students are not required to complete any Chabot General Education or Graduation proficiency requirements.

Students wishing to transfer to a UC can pursue and earn an AA-T or AS-T. While the UC does not offer a guarantee of admission, transfer students applying to the UC with an AA-T or AS-T will receive comprehensive review of the application.

AA-T/AS-T RESOURCES

www.adegreewithaguarantee.com - provides information about the Associate Degree for Transfer and serves as a repository of AA-T and AS-Ts in the California Community College system.

Chabot College AA-T and AS-T Transfer Degrees to date:

- AA-T Administration of Justice
- AA-T Anthropology
- AS-T Biology
- AS-T Business Administration
- AA-T Communication Studies
- AS-T Early Childhood Education
- AA-T Economics
- AA-T Elementary Teacher Education
- AA-T English
- AA-T Geography
- AA-T Journalism
- AS-T Kinesiology
- AS-T Mathematics
- AA-T Music
- AA-T Political Science
- AA-T Psychology
- AA-T Sociology
- AA-T Spanish
- AA-T Studio Arts
- AA-T Theatre Arts



UNIVERSITY OF CALIFORNIA (UC)

www.universityofcalifornia.edu

TRANSFER ADMISSION REQUIREMENTS

A transfer applicant is a student who has enrolled in a fall, winter or spring term at a college or university after high school. A student who meets this definition cannot disregard his or her college record and apply as a freshman. UC gives priority consideration to California community college students applying for admission to UC as juniors if they have completed at least 30 semester (45 quarter) UC-transferable units at one or more California community colleges and the last college attended in a regular session (fall/spring or fall/winter/spring) before enrolling at a UC campus is a California community college.

UPPER-DIVISION/JUNIOR-LEVEL TRANSFER ADMISSION REQUIREMENTS

Minimum requirements

To be considered for admission as a junior transfer, a student must fulfill both of the following criteria:

- Complete 60 semester or 90 quarter units of UC-transferable college credit with a GPA of at least 2.4 (2.8 for nonresidents). No more than 14 semester (21 quarter) units of the required 60 units may be taken Pass/Not Pass, unless the student is transferring from a college or university that awards only pass credit.
- Complete the following seven-course pattern, earning a grade of C or better in each course:
 - » Two transferable college courses (3 semester or 4–5 quarter units) in English composition
 - » One transferable college course (3 semester or 4–5 quarter units) in mathematical concepts and quantitative reasoning
 - » Four transferable college courses (3 semester or 4–5 quarter units each) chosen from at least two of the following subject areas: arts and humanities, social and behavioral sciences, and physical and biological sciences.

Lower-Division (Freshman and Sophomore) Transfer Students:

Some UC campuses admit a limited number of transfer students before they reach junior standing. Refer to the open/closed majors status report at www.admission.universityofcalifornia.edu/how-to-apply/check-majors/index.html to see which campuses will accept freshman and sophomore transfer students for a particular term.

GENERAL EDUCATION REQUIREMENTS FOR THE UNIVERSITY OF CALIFORNIA

To earn a bachelor's degree from the University of California, each student must complete a program of general education. To meet the general education requirements for most majors within the UC, students can complete either the Intersegmental General Education Transfer Curriculum (IGETC) pattern or the general education (breadth requirements) of the UC campus. They are described in the campus general catalogs and articulation agreements (available at assist.org). Students are advised to consult a counselor for information about the general education pattern that will be best for them.

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

The Intersegmental General Education Transfer Curriculum (IGETC) is a series of courses California community college students may complete to satisfy the general education requirements at the University of California. Some majors require extensive preparation and students should prioritize completion of major preparation courses followed by general education courses. Please consult with a university representative and partner with a counselor to develop a transfer plan and/or student education plan that best prepares you for transfer to the UC.

IGETC is separated into six separate academic areas. Each area requires a specific unit/class requirement(s). A grade of "C" or "P" is required for each course used to satisfy IGETC requirements. It is recommended IGETC be completed in its entirety prior to transfer. Students who do not complete the entire program before transfer could be subject to the general education requirements of the campus or college to which they transfer.

The areas for UC/IGETC are:

- Area 1. English Communication (6 semester units)
 - 1A: English Composition,
 - 1B: Critical Thinking
- Area 2. 2A: Mathematical Concepts and Quantitative Reasoning (Min of 3 semester units)
- Area 3. Arts and Humanities. (3A: Arts, 3B: Humanities) (9 semester units)
- Area 4. Social and Behavioral Sciences (9 semester units from at least two different disciplines)
- Area 5. Physical and Biological Sciences (5A Physical Sci, 5B Biological Sci, 5C Laboratory) (7-9 semester units)
- Area 6A. Language Other Than English (LOTE).

For Languages Other than English (LOTE), students are required to demonstrate competence (proficiency) in a language other than English equal to two years of high school study. Competence may be demonstrated through one of the following:

1. Satisfactory completion of two years of high school coursework (US high school or high school in country where the language of instruction is English) in a language other than English, with a grade of "C" or better in each course. The two years must be in the same language.
2. Satisfactory completion of a course (or courses) at a college or university with a grade of "C" or better in each course. Chabot courses: Chinese 1B or French 1B, or German 1B or Italian 1B or Japanese 1B or Spanish 1B or Sign Language 65 or French 1B2 and Spanish 1B2 will satisfy this requirement.
3. Satisfactory completion, with "C" grades or better, of two years of formal schooling at the sixth grade-level or higher in an institution where the language of instruction is not English. Appropriate documentation must be presented to substantiate that the required coursework was completed (See a counselor for assistance).



4. Satisfactory score on the SAT II: Subject Test in languages other than English.
5. Satisfactory score, 3 or higher, in the College Board Advanced Placement examination in languages other than English.
6. Satisfactory score, 5 or higher, in the International Baccalaureate (IB) Higher Level Examinations in language other than English.
7. Satisfactory completion of an achievement test administered by a community college, university or other college in a language other than English (see a counselor for assistance).
8. Language other than English "O" level exam with grade of "A", "B" or "C".
9. Language other than English International "A" level exam with a score of 5, 6, 7.

Students are encouraged to see a counselor for assistance determining the completion of the Area A6: IGETC Language Other Than English (LOTE) requirement.

NOTES

IGETC courses must be completed with a grade of C or better. A grade of Credit or Pass may be used if the community college's policy states that it is equivalent to a grade of C (not a C-) or better.

IGETC course credit may be earned for scores of 3, 4 or 5 on Advanced Placement (AP) exams and 5, 6 or 7 on International Baccalaureate (IB) Higher Level exams that the community college faculty recognizes as equivalent to its IGETC-approved courses. An acceptable score on an AP English exam may be used to meet the English composition requirement, but not the critical thinking/English composition requirement.

PRIORITY APPLICATION FILING DATES FOR UC

Fall Semester or Quarter: Nov. 1–30 of previous year

Winter Quarter/Spring Semester: July 1–31 of previous year

NOTE: Not all campuses admit students every semester/ quarter

UC RESOURCES

The web site www.universityofcalifornia.edu/admissions provides up-to-date UC transfer admissions and application information.

UNIVERSITY OF CALIFORNIA (UC) TRANSFER ADMISSION GUARANTEE (TAG)

admission.universityofcalifornia.edu/transfer/guarantee

By preparing for and meeting specific requirements, community college transfer students have an opportunity to secure a seat at one of the six UC campuses (UC Davis, Irvine, Merced, Riverside, Santa Barbara, Santa Cruz) through the UC Transfer Admission Guarantee.

By participating in TAG, you will receive early review of your academic records, early admission notification and specific guidance about major preparation and general education coursework.

The following UC campuses offer the UC TAG:

- UC Davis
- UC Irvine
- UC Merced
- UC Riverside
- UC Santa Barbara
- UC Santa Cruz

To learn more about the UC TAG, visit www.admission.universityofcalifornia.edu/transfer/guarantee. Students may want to attend a UC TAG workshop offered through the Career & Transfer Center as well as meet with the UC representative when they visit the Career & Transfer Center for TAG advice and preparation. Students may also consult with a counselor for assistance.

UC TRANSFER ADMISSION PLANNER uctap.universityofcalifornia.edu

The UC Transfer Admission Planner (TAP) is an online tool designed to help prospective UC students transferring from California community colleges track and plan their course work, including those students who are seeking a Transfer Admission Guarantee (TAG) with one of the six participating UC campuses. The UC TAP also becomes a student's application to the UC and serves as a great way to monitor one's progress on UC transferable units, UC-transferable gpa, and completion of major preparation and general education requirements.

Students are encouraged to establish your UC TAP account early in your academic career and keep it updated so counselors and university representatives may best assist you in transfer planning.

The UC Transfer Admission Planner is available at:

uctap.universityofcalifornia.edu.

CERTIFICATION OF GENERAL EDUCATION FOR TRANSFER TO UC OR CSU

IGETC and CSU GE Breadth certification is the process by which the community college verifies that a student has completed all the required coursework for the IGETC or CSU GE Breadth pattern. Students who transfer without certification may have to meet the local general education requirements of the university campus. Certification is not automatic and must be requested after acceptance to the university. This request should be made in the Admissions and Records Office. The certification will be sent after final grades are posted.

FULL VS PARTIAL CERTIFICATION

Full CSU GE Certification: Students are eligible for Full CSU/GE Certification when they have completed the required number of units and courses in each GE Area. Students with full certification will not have to complete additional lower-division GE requirements after transfer to the CSU. Students will have upper-division GE requirements to complete.



Partial CSU GE Certification: Partial CSU/GE Certification is granted when one or more GE Area has been completed. A student who transfers to a CSU with partial GE Certification will not have to complete additional GE requirements in the same GE area upon transfer. Students will need to complete courses for the missing GE area(s). Students will have upper-division GE requirements to complete.

Full IGETC Certification: Students are eligible for Full IGETC Certification when they have completed the required number of units and courses in each GE Area. Students with full certification will not have to complete additional lower-division GE requirements after transfer to the CSU or UC. Students will have upper-division GE requirements to complete.

Partial IGETC Certification: Partial IGETC certification is defined as completing all but 2 courses on the IGETC pattern. Upon request for IGETC certification, if a partial certification is sent, each UC or CSU will inform a student who has submitted a partial certified IGETC of the specific timelines and courses needed to complete IGETC. The UC or CSU is responsible for verifying that the missing courses are completed. Students will have upper-division GE requirements to complete. Partial completion of IGETC could jeopardize admission into certain majors at the UC campus. Please consult with the university representative and your counselor for assistance.

IGETC for STEM: This IGETC pattern is currently only to be used with the IGETC (CSU) AS-T in Biology or Chemistry. Currently Chabot does not have an approved AS-T in Biology or Chemistry, but it is anticipated in the future one will be developed. IGETC for STEM allows two courses to be deferred to after transfer. In Area 3, the student is required to complete one course under 3A and one course under 3B, third course can be deferred to after transfer. In Area 4 the student is required to complete two courses from two different disciplines, the third course will be deferred to after transfer. IGETC for STEM is not appropriate for a student planning to transfer to UC, please review the Partial IGETC notation above.

GE Certification is not automatic and must be requested after acceptance to the university. This request should be made in the Admissions and Records Office.

NOTE: Students obtaining an AA-T or AS-T and transferring to a CSU do not need to request a GE Certification. Students obtaining an AA-T or AS-T and transferring to a UC will need to request a GE Certification. Please consult with a counselor for assistance.

INDEPENDENT/PRIVATE/OUT-OF-STATE COLLEGES AND UNIVERSITIES

TRANSFER ADMISSION REQUIREMENTS

Transfer requirements to California private universities or out-of-state universities vary from institution to institution, and often differ from the requirements to transfer to a CSU and UC campus. Some California private colleges accept the CSU GE Breadth and/or IGETC as appropriate lower-division general education preparation. Research with the private institution's website and inquire with the university representative. Counselors are also available to assist students with developing a transfer plan these institutions.

PRIVATE/INDEPENDENT COLLEGE RESOURCES

For California independent colleges and universities, visit: www.californiacolleges.edu or www.aiccu.edu.

The Common Application (www.commonapp.org) is an application adopted by 600 private colleges in the United States so students have the convenience of working on one application for the intended private colleges in lieu of separate applications for each private college.

HISTORICALLY BLACK COLLEGES & UNIVERSITIES (HBCU)

Transfer Guarantee to Historically Black Colleges & Universities (HBCU) <http://extranet.cccco.edu/HBCUTransfer/Students.aspx>

In an agreement signed March 17, 2015 between the California Community Colleges and nine historically black colleges and universities, California community college students who complete certain academic requirements are now guaranteed transfer to a participating historically black college and university campus.

Historically black colleges and universities were established primarily to serve the higher education needs of the black community, however they are open to students of any ethnicity. There are 105 historically black colleges and universities in the country, with most located in the South and East Coast. They all award bachelor's degrees in many fields. Some also award masters and doctorate degrees.

To view the list of participating HBCUs as well as its respective requirements to be eligible for guaranteed admission to a participating HBCU, visit <http://extranet.cccco.edu/HBCUTransfer/Students.aspx>

Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.



CAREER AND TRANSFER CENTER

The Chabot College Career and Transfer Center specializes in working with students who intend to transfer to a 4-year college or university. The Career and Transfer Center also provides employment services to students for on/off campus work. The Career and Transfer Center is located in Building 700, 2nd Floor. For more information, students may call **(510) 723-6720**.

The following resources and services are available through the Center:

- Individual appointments with college and university representatives
- CSU Application Workshops
- UC Transfer Admission Guarantee, Application, Personal Statement Workshops
- Private College/Common Application Workshops
- Representatives from local universities available for transfer assistance
- Transfer Day and Career Fairs
- Career Development Workshops
- Referrals to local job listings
- Building your resume
- Reviewing effective job interview techniques

CROSS-REGISTRATION PROGRAMS

CROSS-REGISTRATION WITH CSU EAST BAY

Students who have completed 20 semester units at Chabot College may be eligible to cross-register with California State University, East Bay, while completing the requirements for transfer or a degree at Chabot College. Students who elect to cross-register may enroll in courses at the four-year institution which are either upper-division or not offered at any time by Chabot College. Interested students should inquire with a counselor in the General Counseling Division, Building 700, 2nd Floor.

CROSS-REGISTRATION WITH MILLS COLLEGE

Students who have completed 20 semester units at Chabot College may be eligible to cross-register with Mills College in Oakland, California, while completing the requirements for transfer or a degree at Chabot College. Interested students should inquire with a counselor in the the General Counseling Division, Building 700, 2nd Floor.

CROSS ENROLLMENT WITH UC BERKELEY

Students who have completed at least one semester at Chabot College and meet additional requirements may be eligible to cross-register with UC Berkeley. Lower-division coursework is posted onto the Chabot College transcript. Interested students should inquire with the Transfer Center Director/Counselor at the Career & Transfer Center, Building 700, 2nd floor.

R.O.T.C. (RESERVE OFFICERS TRAINING CORP) PROGRAM CROSS-TOWN AGREEMENT WITH THE UNIVERSITY OF CALIFORNIA, BERKELEY

Students may enroll in Army or Air Force R.O.T.C. Programs at the University of California, Berkeley, while attending Chabot College full-time. The Air Force ROTC is offered through the Aerospace Studies department at U.C. Berkeley. Scholarships (including tuition, book allowance, and stipend) are available for qualified students. Students may enroll and attend one course per semester at the U.C. Berkeley campus at no cost. Upon completion of the program and granting of 4-year degree, students will commission as Second Lieutenants in the United States Air Force. To be eligible for AFROTC, applicant should be a full time student and meet additional fitness, GPA, testing, and other requirements. Interested students, please visit the department website: <http://airforcerotc.berkeley.edu>, call **(510) 642-3572**, or email airforce@berkeley.edu. For Army ROTC information please contact the Department of Military Science at U.C. Berkeley 14th Brigade, Western Region, 173 Hearst Gym, # 4440 at **(510) 642-3374**.

TRANSCRIPTS FROM OTHER COLLEGES AND UNIVERSITIES

Any student enrolled at Chabot College who has academic credit for courses taken at other accredited colleges/universities must submit official transcripts of that work to the Admissions and Records Office. Official transcripts are defined as academic records that are sent from other institutions to Chabot. They can be hand carried by the student, but must be unopened (in the sealed envelope of the institution). If there is evidence that the transcripts have been opened, the student will be requested to have the former school mail transcripts directly to Chabot.

Transcripts received from other institutions cannot be forwarded to other colleges. This does not apply to Las Positas College, since academic information from both Chabot and Las Positas Colleges is recorded on the same transcript.

Official transcripts are required for the following academic transactions:

1. AA/AS degree evaluations
2. Academic Renewal petitions
3. Financial Aid student education plans
4. Certification of CSU/GE or IGETC
5. Exemptions from Assessment and Student Educational Plan (SEP)

To be credited by Chabot College, the course work must meet the following criteria:

1. The course(s) must have been taken at an accredited college/university.
2. The course(s) must have been completed with a grade of "D" or higher. All transferred grades (including F's) will be used in the calculation of units attempted, units completed, and the grade point average. (IGETC Certification requires a grade of "C")
3. The content of the course(s) must be recognized as equivalent to the current Chabot College course standards. The Dean of Counseling at Chabot College shall be responsible for determining course equivalency.



It is the student's responsibility to initiate a request to each institution asking that an official transcript of his/her work be sent directly to the Admissions and Records Office at Chabot College. See a counselor for assistance with an unofficial evaluation of your courses and petition for an official evaluation.

Unofficial transcripts (those that have been opened) can be used for:

1. Unofficial evaluation by a counselor
2. Prerequisite overrides
3. Student Education Plan (SEP) development with a counselor
4. Petitions for course substitutions and waivers

TRANSFER WEB RESOURCES

- www.assist.org (Official articulation web site for CSU and UC)
- www.aiccu.edu (Association of Independent California Colleges & Universities)
- www.californiacolleges.edu (Web location for California Private/Independent Colleges)
- www.calstate.edu (Main web page for California State Universities)
- www.csumentor.edu (Admissions webpage for CSU applications)
- www.cccco.edu (Main web site for the California Community Colleges)
- www.universityofcalifornia.edu (Main web site for information about the University of California, including admissions and TAG information)
- www.adegreewithaguarantee.com (Main web information for CSU Transfer Degrees (AA-T/AS-T))
- uctap.universityofcalifornia.edu (UC Transfer Admission Planner)

USE OF AP, IB, AND CLEP EXAMINATIONS ADVANCED PLACEMENT (AP) PROGRAM

Chabot College grants college credit for successful completion Advanced Placement (AP) exams with scores of 3 or higher, as well as to clear prerequisites for more advanced courses. For students to receive credit for AP exams, students must contact the College Board and request an official AP score report to be sent to the Chabot College Admissions Office. Scores posted to high school or college transcripts will not be accepted. Chabot does not post AP course equivalencies on Chabot College transcripts.

The Advanced Placement chart in this catalog details how Chabot College, the California State University, and the University of California awards unit and general education credit for transfer students. Students wishing to apply AP exam scores for transfer are strongly advised to see a counselor for assistance and view the ASSIST website at www.assist.org. Individual schools may evaluate AP exam results differently toward course requirements for majors, and in some cases will not award credit for college courses that duplicate successful completion of AP exams.

THE COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

The College-Level Examination Program of the College Board provides students with the opportunity to earn college credits by earning qualifying scores on their examinations. Students who pass the CLEP exams are able to earn college credits for knowledge they've gained through independent study, prior course work, professional development, on-the-job training, cultural pursuits, or internships.

California State University accepts select CLEP exams to satisfy some CSU/General Education requirements. For more information as to how CSU awards credit for CLEP exams, go to: www.calstate.edu/transfer/requirements/TheCollegeLevelExaminationProgramCLEP.shtml. Students are also advised to contact the individual CSU representative for more information on how subject credit may be granted.

Neither Chabot College nor the University of California accepts CLEP exams to satisfy units or course requirements toward their degrees.

INTERNATIONAL BACCALAUREATE ORGANIZATION (IB) EXAMINATION

The International Baccalaureate Organization awards either a diploma or a certificate for individual IB exams. Both CSU and UC grant limited unit and general education transfer credit based on the IB Chart in this catalog. For additional assistance, students are advised to meet with a counselor and/or the university transfer representative from campuses where they plan to apply.

Chabot College does not currently award units nor GE credit for IB exams towards associate degrees or certificates.





ADVANCED PLACEMENT PROGRAM

COLLEGE CREDIT FOR ADVANCED PLACEMENT (AP) EXAMINATIONS

Credit may be earned for the College Entrance Examination Board (CEEB) Advanced Placement (AP) Exams with scores of 3, 4, or 5 as listed below. Course credit and units granted at Chabot College may differ from course credit and units granted by a transfer institution.

AP EXAM	Chabot College Degrees & Certificates	Chabot College AA/AS: GE Area & Units	CSU GE	CSU Transfer Units	IGETC	Maximum UC Transfer Units
Art History	Art History 4 or 5	Area C 3 semester units	Area C1 or C2 3 semester units	6 semester units	Area 3A or 3B 3 semester units	8 quarter/ 5.3 semester units
Art (Studio) 2-D Design, 3-D Design, Drawing	N/A	Area C, portfolio review required 3 semester units	N/A	3 semester units each	N/A	8 quarter/ 5.3 semester units (Maximum units for all Studio Art Exams)
Biology	Biology 31	Area B 4 semester units	Area B2 and B3 4 semester units	6 semester units	Area 5B & 5C 4 semester units	8 quarter/ 5.3 semester units
Calculus AB/AB Subscore	Math 1	Area A3 on AA/A2 on AS & Math Proficiency 5 semester units	Area B4 3 semester units	3 semester units*	Area 2A 3 semester units	4 quarter/ 2.7 semester units max between AB and AB/ subscore**
Calculus BC	Math 2	Area A3 on AA/A2 on AS & Math Proficiency 5 semester units	Area B4 3 semester units	6 semester units*	Area 2A 3 semester units	8 quarter/ 5.3 semester units**
AP CALCULUS EXAM LIMITATIONS:						
Chemistry	Chemistry 1A	Area B 5 semester units	Areas B1 and B3 4 semester units	6 semester units	Area 5A & 5C 4 semester units	8 quarter/ 5.3 semester units
Chinese Language & Culture	N/A	Area A3 on AA/A2 on AS or Area C 5 semester units	Area C2 3 semester units	6 semester units	Area 3B and 6A 3 semester units	8 quarter/ 5.3 semester units
Computer Science A	Computer Science 14	Area A3 on AA/A2 on AS 4 semester units	N/A	3 semester units**	N/A	2 quarter/ 1.3 semester units***
Computer Science AB	Computer Science 14 & 19A	Area A3 on AA/A2 on AS 8 semester units	N/A	6 semester units**	N/A	4 quarter/ 2.7 semester units***
AP CS EXAM LIMITATIONS:						
Economics- Macroeconomics	Economics 2	Area D 3 semester units	Area D 3 semester units	3 semester units	Area 4B 3 semester units	4 quarter/ 2.7 semester units
Economics- Microeconomics	Economics 1	Area D 3 semester units	Area D 3 semester units	3 semester units	Area 4B 3 semester units	4 quarter/ 2.7 semester units
English - Language & Composition	English 1A	Area A1 3 semester units	Area A2 3 semester units	6 semester units	Area 1A 3 semester units	8 quarter/ 5.3 semester units*
English - Literature & Composition	English 1A	Area A1 3 semester units	Area A2 and C2 6 semester units	6 semester units	Area 1A or 3B 3 semester units	8 quarter units/ 5.3 semester units*
AP ENGLISH EXAM LIMITATIONS:						
*8 quarter/5.3 semester units maximum for both						



COLLEGE CREDIT FOR ADVANCED PLACEMENT (AP) TESTS

AP EXAM	Chabot College Degrees & Certificates	Chabot College AA/AS: GE Area & Units	CSU GE	CSU Transfer Units	IGETC	Maximum UC Transfer Units
Environmental Science		Area B	Area B2 and B3 (if taken prior to Fall 2009) or Area B1 and B3 (regardless of when taken). 4 semester units	4 semester units	Area 5A & 5C 3 semester units	4 quarter/ 2.7 semester units
French Language and Culture	French 1B	Area A3 on AA/A2 on AS or Area C - 5 semester units	Area C2 3 semester units	6 semester units	Area 3B and 6A 3 semester units	8 quarter/ 5.3 semester units
French Literature		Area C 5 semester units	Area C2 3 semester units	6 semester units	Area 3B and 6A 3 semester units	8 quarter/ 5.3 semester units
German Language	German 1B	Area A3 on AA/A2 on AS or Area C - 5 semester units	Area C2 3 semester units	6 semester units	Area 3B and 6A 3 semester units	8 quarter/ 5.3 semester units
Government & Politics-Comparative	Political Science 20	Area D 3 semester units	Area D 3 semester units	3 semester units	Area 4 3 semester units	4 quarter/ 2.7 semester units
Government and Politics-U.S.	Political Science 1	Area D or American Institutions 3 semester units	Area D and US-2 3 semester units	3 semester units	Area 4 and US 2 3 semester units	4 quarter/ 2.7 semester units
History-European	History 1 or 2	Area C or D 3 semester units	Area C2 or D 3 semester units	6 semester units	Area 3B or 4 3 semester units	8 quarter/ 5.3 semester units
History-U.S.	History 7 or 8	Area D or American Institutions 3 semester units	Area C2 or D and US-1 3 semester units	6 semester units	Areas 3B or 4 and US 1 3 semester units	8 quarter/ 5.3 semester units
History-World		Area D 3 semester units	Area C2 or D 3 semester units	6 semester units	Area 3B or 4 3 semester units	8 quarter/ 5.3 semester units
Human Geography		Area D 3 semester units	Area D 3 semester units	3 semester units	Area 4 3 semester units	4 quarter/ 2.7 semester units
Italian Language & Culture		Area A3 on AA/A2 on AS or Area C 5 semester units	Area C2 3 semester units	6 semester units	Area 3B and 6A 3 semester units	8 quarter/ 5.3 semester units
Japanese Language & Culture		Area A3 on AA/A2 on AS or Area C 5 semester units	Area C2 3 semester units	6 semester units	Area 3B and 6A 3 semester units	8 quarter/ 5.3 semester units
Latin		Area C 3 semester units	Area C2 3 semester units	6 semester units	Area 3B and 6A 3 semester units	8 quarter/ 5.3 semester units



COLLEGE CREDIT FOR ADVANCED PLACEMENT (AP) TESTS

AP Exam	Chabot College Degrees & Certificates	Chabot College AA/AS: GE Area & Units	CSU GE	CSU Transfer Units	IGETC	Maximum UC Transfer Units
Music Theory	Music 2A & 2B	Area C 3 semester units	Area C1 (if taken prior to Fall 2009) 3 semester units	6 semester units	N/A	8 quarter/ 5.3 semester units
Physics 1	none	Area B 4 semester units	Areas B1 and B3 4 semester units*	4 semester units*	Areas 5A & 5C 4 semester units	8 quarter/ 5.3 semester units**
Physics 2	none	Area B 4 semester units	Areas B1 and B3 4 semester units*	4 semester units*	Areas 5A & 5C 4 semester units	8 quarter/ 5.3 semester
Physics B	Physics 4A	Area B 5 semester units	B1 and B3 4 semester units*	6 semester units*	Areas 5A & 5C 4 semester units	8 quarter/ 5.3 semester units**
Physics C -Mechanics	Physics 4A	Area B 5 semester units	Area B1 and B3 4 semester units*	4 semester units*	Areas 5A & 5C 3 semester units	4 quarter/ 2.7 semester units**
Physics C-Electricity/ Magnetism	Physics 4B	Area B 5 semester units	Area B1 and B3 4 semester units*	4 semester units*	Areas 5A & 5C 3 semester units	4 quarter/ 2.7 semester units**
AP PHYSICS EXAM LIMITATIONS:						
Psychology	Psychology1	Area D 3 semester units	Area D 3 semester units	3 semester units	Area 4 3 semester units	4 quarter/ 2.7 semester units
Spanish Language	Spanish 1B	Area A3 on AA/A2 on AS or Area C 5 semester units	Area C2 3 semester units	6 semester units	Areas 3B and 6A 3 semester units	8 quarter/ 5.3 semester units
Spanish Language/ Culture		Area C 5 semester units	Area C2 3 semester units	6 semester units	Areas 3B and 6A 3 semester units	8 quarter/ 5.3 semester units
Statistics	Math 43	Area A3 for AA/A2 for AA & Math Proficiency 4 semester units	Area B4 3 semester units	3 semester units	Area 2 3 semester units	4 quarter/ 2.7 semester units
				*Maximum 4 semester units toward GE and 6 semester units toward transfer		**Maximum 8 quarter/ 5.3 semester units for all Physics exams





INTERNATIONAL BACCALAUREATE (IB) EXAM CREDIT

International Baccalaureate (IB) exams may be applied toward the California State University (CSU), CSU General Education (CSU GE) pattern, University of California (UC), and the Intersegmental General Education Transfer Curriculum (IGETC). Credit is awarded for Higher Level (HL) exams only. All units listed in the chart below are semester units.

Students should be aware that colleges courses, AP exams, IB exams, and A-Level exams may duplicate one another. In the event that exams and/or college course duplicate one another in content, course credit will only be awarded once . Students should contact individual campuses for more information on how subject credit may be granted for their major. All transfer information listed below updated yearly and is subject to change.

IB exams will not be used to satisfy unit, general education, or course requirements for Chabot College associate degrees or certificates.

International Baccalaureate (IB) Exam	CSU GE Area + IB Score	Maximum CSU Transfer Units Awarded	CSU GE Units Awarded	IGETC Area (Score of 5, 6, or 7)	IGETC Units Awarded	Maximum UC Transfer Units (Score of 5, 6, or 7)
Biology HL	B2 Score = 5	6	3	5B (without lab)	3	5.3
IB Chemistry HL	B1 Score = 5	6	3	5A (without lab)	3	5.3
IB Economics HL	D Score =5	6	3	4	3	5.3
IB Geography HL	D	6	3	4	3	5.3
IB History (any region) HL	C2 or D Score=5	6	3	3B or 4	3	5.3
IB Language A1 HL* (prior to FA 2013)	C2 Score=4 (any language)	6	3	3B (any language) 3B and 6A (any language except English)	3	5.3
IB Language A2 HL* (prior to FA 2013)	C2 Score=4 (any language)	6	3	3B (any language) 3B and 6A (any language except English)	3	5.3
IB Language A: Language and Literature HL	C2 Score+4	6	3	3B (any language except English)	3	5.3
IB Language B (any language) IB HL*	N/A Score=4	6	0	6A	3	5.3
IB Mathematics HL	B4 Score=4	6	3	2A	3	5.3
IB Physics HL	B1 Score=5	6	3	5A (without lab)	3	5.3
IB Psychology HL	D Score=5	6	3	4A	3	5.3
IB Theatre HL	C1 Score=4	6	3	3A	3	5.3

*The IB Curriculum offers language at various levels for native and non-native speakers. Language B courses are offered at the intermediate level for non-natives. Language A1 and A2 are advanced courses in literature for native and non-native speakers, respectively.

STUDENT SERVICES





STUDENT SERVICES

Student Services provides a variety of programs and procedures through which individuals are brought into the college for instruction, assisted in career planning and development, assisted in planning for and pursuing courses of study, provided with avenues for obtaining financial aid and employment, and given an opportunity to participate in many different activities. Student Services is also responsible for record keeping and reporting in matters relating to student progress, attendance, and status, for health and emergency care procedures, and for the general supervision and control of the campus. Additional information about any of the Student Services areas can be obtained by contacting the office of the Vice President of Student Services, Room 708, Building 700, at Chabot College and on the college website at www.chabotcollege.edu.

GENERAL INFORMATION

ALCOHOL, NARCOTICS AND DANGEROUS DRUGS

Persons possessing or being under the influence of alcohol, narcotics or dangerous drugs on campus are in violation of State law and College regulations.

DRUG-FREE WORKPLACE

Chabot-Las Positas Community College District is committed to maintaining a drug-free work/learning place in accordance with the requirements of the U.S. Drug-Free Workplace Act of 1988. The District certifies that it will provide a drug-free work/learning place by taking the actions required by the Drug-Free Workplace Act.

It is the intent of the District to make a good faith effort to continue to maintain a drug-free work/learning place through implementation of this policy.

HAZING

Section 32050 of the Education Code makes participation in any kind of hazing a misdemeanor. Hazing is defined as "any method of initiation into a student organization or any pastime or amusement engaged in with respect to such an organization which degrades or disgraces or which causes bodily harm to any student attending any college or school in California."

HEALTH AND ACCIDENT INSURANCE

Students are responsible for providing their own health and accident insurance. For those students who do not have such coverage, health, accident, and dental policies may be purchased through the office of the Associated Students, upstairs in Building 2300. The College carries accident insurance.

MEDICAL EMERGENCIES ON CAMPUS

Students are advised to contact the Security Office for assistance in all cases of a medical emergency or personal injury which occurs on campus. Use any hall telephone and dial 6923 or *16 from any pay telephone for assistance. All cases of personal injury should be reported to the Campus Safety Office in Building 200.

PUBLICATIONS

The Official Chabot College student newspaper, *The Spectator*, is published weekly by the Mass Communications/Journalism instruction program. Students interested in working with the newspaper should contact *The Spectator* Office located in Room 1635.

SECRET ORGANIZATIONS

Membership in secret fraternities, sororities, and organizations, as described by the California Education Code (§76035), is prohibited. Chabot College students who participate in such groups shall be subject to the penalties outlined in the Education Code.

ADMISSION PROCEDURES AND POLICIES

ADMISSION

Any person who is a high school graduate or equivalent thereof or who is eighteen years of age or older and who can profit from the instruction offered is eligible to apply for admission to Chabot College.

Students who plan to enroll at Chabot College must complete and submit an Application for Admission. Students may apply online at www.chabotcollege.edu.

Official transcripts of previous academic work are required to assist students to reach their educational objectives at Chabot College. Transcripts are also required for students who are candidates for special admissions programs, e.g., registered nursing, dental hygiene, etc., and/or services such as financial aid and scholarships, veteran's benefits, athletics, concurrent enrollment, EOPS, and international students.

Copies of transcripts received from other colleges and universities cannot be forwarded to a third party (another college/university/person/etc.). Students desiring such transcripts must request them directly from the issuing institution.

ADMISSION WITH ADVANCED STANDING

Credits earned at another accredited college or university will be applied towards an A.A. or A.S. degree from Chabot College upon receipt of official transcripts. Accreditation must have been listed in the Accredited Institutions of Higher Education manual. Credit will also be allowed for college-level courses taken at military service schools if such credit is recommended in the American Council on Education Guide.

READMISSION FROM DISMISSED STATUS

Students on dismissed status from Chabot College must submit a Petition for Admission from Dismissed Status form. In order to enroll in classes, readmission must be approved by the Director of Admissions and Records. Forms are available at www.chabotcollege.edu/admissions/forms.

INTERNATIONAL STUDENT ADMISSION

Chabot College is authorized under Federal Law to enroll international students. Students seeking admission to Chabot College must first obtain an international student application packet, available online at www.chabotcollege.edu/international or from the International Student Admissions Office, Room 703E, Building 700. The application packet contains form and instructions for providing evidence of the following:

1. Provide evidence of having completed the equivalent of a United States high school education.
2. Demonstrate the ability to read and write English at the 12th grade level (TOEFL test with a minimum score of 61 iBT or 173 CBT or 500 PBT or the IELTS Academic test with a minimum band score of 5.5).
3. Show means of adequate financial support and medical care.
4. Provide evidence by means of a physical examination certifying freedom from active tuberculosis.
5. Proof of voluntary or school mandated medical insurance.

The number of international students admitted will be contingent upon Chabot College's ability to provide services as required. International students will be accepted for admission for either the Fall or Spring semester of each academic year.

For information on international student fees, see the catalog section titled "Fees and Refunds" or consult the current class schedule.

INTERNATIONAL STUDENT APPLICANT REQUIREMENTS

1. Satisfactory completion of appropriate secondary education or the equivalent of a United States high school diploma.
2. Affidavit of financial support showing availability of sufficient funding for a minimum of one year. The certification document must include source of support and must be on official letterhead bearing the stamp or seal of the verifying bank.

3. Students must demonstrate English language competency sufficient to benefit from instruction at Chabot College where all courses are taught in the English language. Although the college does offer ESL courses, a comprehensive ESL program is not available. All applicants must pass either the TOEFL test with a minimum score of 61 iBT or 173 CBT or 500 PBT or the IELTS Academic test with a minimum band score of 5.5.
4. Provide complete academic records, including official secondary school and post secondary academic records. (Contact the International Student Admissions Office for the names of certified translation agencies.)
5. A signed international student agreement to comply with all college/immigration requirements.
6. Essay/Statement of Purpose.
7. \$100 non-refundable application fee.
8. Passport photo.

SPECIAL ADMISSION-CONCURRENT ENROLLMENT

The college offers concurrent enrollment education opportunities for selected minor students to enroll in college-level courses. Students who desire to participate in concurrent enrollment must be recommended by their school principal and have written parental permission and medical emergency authorization. For additional information on the Concurrent Enrollment policy and procedures please visit www.chabotcollege.edu/admissions/concurrent or contact the Office of Admissions and Records.

RESIDENCY REQUIREMENTS FOR ADMISSION

In determining tuition/enrollment fees, students fall under the following two categories:

Residents: Those who have legally resided in California for at least one year and a day immediately prior to the first day of instruction with demonstrable intent of making California their home for other than a temporary purpose. State law places the burden on the student to demonstrate clearly both physical presence in California and intent to make California the permanent home. Students need to be able to demonstrate Financial Independence. Non-citizens and certain visa holders who meet residency requirements must provide documentation from the U.S. Citizenship and Immigration Services (USCIS). Visa holders should consult the Office of Admissions and Records for further information.

Non-residents (out-of-state and international students): Those who do not meet the California residency requirements as previously outlined. See section on "Fees and Refunds."

All questions concerning residence status should be referred to the Office of Admissions and Records.



BOOKSTORE

The Chabot College Bookstore is honored to be your on campus source for course materials, school supplies, Chabot College apparel and gifts, graduation items, beverages and snacks. We support Chabot College's educational mission through the services we offer. www.chabotcollege.edu/about/VisionMissionValueStatements.asp

Location and Contact Information

The Bookstore is located in building 3800, between the cafeteria and student parking lot "B" (see the map inside the back cover). You can contact us by phone at (510) 723-2650 or email by visiting our website at www.chabotcollege.edu/bookstore. There, you'll find our current Bookstore hours, promotions, special offers, as well as course related textbook and merchandise information for all your needs. You can order your textbooks, Chabot College apparel and gifts and a wide selection of merchandise on our website. For your convenience, online orders may be shipped or picked up in the Bookstore.

General Purchasing Information

We offer rental, used and new textbooks, with rentals saving students up to 80%. Digital textbooks are also available for a large majority of the printed textbooks, with savings up to 60%. Textbook buyback is offered every day, however students will receive the greatest value for their textbooks during final exam week at the end of the semester. Please refer to our website for more detailed information.

The Bookstore accepts Visa, MasterCard, American Express, and Discover. The cardholder must be present and must present government-issued ID for all credit transactions. Parents wishing to place orders for their children are encouraged to place orders on our website for in-store pickup. An ATM machine maintained by the Chabot Federal Credit Union is located inside the Bookstore. We do not accept personal or business checks.

Textbook Information

We partner with college departments and instructors to provide the most accurate and up-to-date textbook information available. Current textbook information—including pricing and money-saving used, rental and digital options—is posted on our website several weeks before the start of each term. Please note that textbook prices and information are subject to change as we receive additional information from instructors and publishers.

Textbooks represent a significant expense, and we endeavor to provide cost-saving options for students whenever possible. We obtain used books whenever possible. We are part of a national textbook rental program, Rent-a-Text, and a national digital textbook platform, CafeScribe, which together offer hundreds of Chabot titles in less expensive rental and digital formats. We also work closely with faculty and departments to add additional rental titles and offer less-expensive versions of major textbooks that are customized exclusively for Chabot.

Textbook Buyback:

We offer textbook buyback in the store. We buy back textbooks every day, though prices are often highest during Finals Week each semester, which is when books are in the highest demand for the upcoming semester. The price we are able to offer depends on the current demand for a given book both at Chabot and nationwide. When we buy back books to meet demand for the next semester's students, we are able to offer half of the original purchase price. Books not currently in demand at Chabot can be sold back at the national market value, and will be sent to a book wholesaler to be distributed to other colleges.

Refund Policy:

Textbooks may be returned for a full refund for any reason for 7 days from the start of the semester or within two days of purchase thereafter. A full refund is also available until the day after the NGR drop date to students who drop their class with an NGR (No Grade of Record) and bring proof of the drop at the time of the return. An original sales receipt is required for all returns. For late-start and summer term classes, textbook refunds with a receipt will be given within two days of purchase. For all refunds books must be in original condition (i.e., no marking or highlighting in new books) and books sold in shrink-wrapped packages must be unopened. Textbooks purchased during the last week of classes or during exams are not returnable, but may be sold back at buyback. Books purchased with a credit card must be refunded to the same credit card, and the actual card is required at the time of the refund. No facsimiles or photocopies will be accepted.

Non-textbook items (excluding software) may be returned or exchanged within thirty days of the sale with the original receipt, providing the merchandise is in original condition. Study aids, snacks, software, and graduation merchandise are not returnable.

COUNSELING

Counseling services are provided for all enrolled students. Counselors are available to assist students to establish or clarify appropriate educational and career objectives and to help with educational, career, or personal problems as related to their academic experience.

- **Academic Counseling**

Counselors help students plan their programs of study to reach their educational goals. Counselors offer assistance in exploring life goals, educational planning, and appropriate course selection. This assistance may include helping students evaluate their aptitudes and interest through the use of tests and interviews.

Students are also encouraged to seek advice from faculty members in the Division of their major interest. However, the final responsibility for the selection of proper courses rests with the student.

- **Career Counseling**

Counselors are available to assist students in identifying their career options. Career Counselors work in conjunction with resources found in Chabot's Career and Transfer Center. The Center is a hub of career and employment information and assistance including job listings from local employers, computers for online job search, online career resource information, and workshops on various career and employment topics such as interviewing, job search, and resume writing

- **Transfer Counseling**

Counselors are available to assist students in identifying transfer education goals, majors and prospective baccalaureate degree-granting colleges/universities to which the student could transfer after completing lower division coursework at Chabot College. Counselors provide guidance on Student Education Planning (SEPs) toward transfer, assistance with Transfer Admission Guarantees, and Transfer Degrees (AA-T and AS-T).

- **Personal Counseling**

Counselors are available to students who need assistance with problems which may be affecting their academic progress. Counselors work with students to provide support and guidance and/or will refer students to the Student Health Mental Health and Wellness program or community resources.

ACADEMIC PROBATION

Success Contracts are designed for students who are on Academic Probation, which occurs when a student's Grade Point Average (GPA) falls below 2.0. Students on Academic Probation are required to meet with a Counselor to review their progress, to discuss any problems that might interfere with their studies and to develop effective strategies to strengthen their academic progress. A Success Contract is required each semester a student is on Academic Probation before being cleared for registration.

For Counseling Division hours of operation and contact information, please visit www.chabotcollege.edu/counseling or call the information line at (510) 723-7013.

ARTICULATION

The Articulation Office is the liaison with the University of California, California State University and private colleges and universities regarding how Chabot College courses meet general education or major prerequisite requirements. Chabot College has articulation agreements with a large number of 4-year colleges and universities. For further information regarding articulation agreements, contact the Articulation Officer, Building 700, Counseling Department, www.chabotcollege.edu/counseling/articulation.asp or call (510) 723-6738.

CAREER AND TRANSFER CENTER

The Chabot College Career and Transfer Center specializes in working with students who intend to transfer to a 4-year college or university. The Career and Transfer Center also provides employment services to students for on/off campus work.

The following resources and services are available through the center:

- Individual appointments with college and university representatives
- CSU Application Workshops
- UC Transfer Admission Guarantee, Application, Personal Statement Workshops
- Private College/Common Application Workshops
- Representatives from local universities available for transfer assistance
- Transfer Day and Career Fairs
- Career Development Workshops
- Referrals to local job listings
- Building your resume
- Reviewing effective job interview techniques

The Center is located in building 700, Room 761. Telephone number: (510) 723-6720 or visit www.chabotcollege.edu/counseling/tecs.



ORIENTATION

The Student Success Act of 2012 requires all matriculating students to complete a college orientation. At Chabot College, the initial orientation to college is provided online at www.chabotcollege.edu/counseling/orientation.

Orientation services are designed to provide to students, on a timely basis, information concerning college programs, services, registration procedures, academic expectations/requirements, financial assistance, rights and responsibilities, facilities and grounds, and other matters related to the college experience. Many special programs and learning communities provide additional orientations to provide more in-depth information and guidance to help students more fully engage with college programs, opportunities and services.

ASSESSMENT

The Assessment Center is a vital part of the college's counseling services. The center's purpose is to help students assess their academic, career and vocational skills. Placement results are used by counselors to assist students with individual counseling and career exploration. Under the new regulations of California's Student Success and Support Program (SSSP), students who have completed college assessment, orientation, and developed education plans will now have enrollment priority over students who do not meet these criteria. The Assessment Center administers tests in English, English as a Second Language (ESL), Math and Chemistry for appropriate placement into courses. Additional information, including the assessment schedule and study guides, can be obtained in the Assessment Center, Building 700, Room 714A, at www.chabotcollege.edu/counseling/assessment or by calling (510) 723-6722.

EARLY DECISION

The Early Decision Program is designed for local high school seniors. The Early Decision Program allows high school seniors to register for classes earlier than regular new Chabot College students. Chabot College counselors visit local high schools to present admissions, assessment, program, and registration information. Students interested in participating in the Early Decision Program should obtain information from their high school counselor or visit the Early Decision website at www.chabotcollege.edu/counseling/ed.

STUDENT EDUCATION PLANNING

All new, first time in college students are required to develop a Student Education Plan (SEP) with a Counselor for assessment interpretation, education goal and major identification, and career planning. New students develop their initial, abbreviated Student Education Plan in small groups following assessment testing. Continuing students are required to develop a comprehensive Student Education Plan after fifteen (15) units of course completion and to receive priority registration for the following academic terms. Continuing or returning students should visit the Counseling Division to receive SEP services.

Transfer Center

The Chabot College Transfer Center specializes in working with students who intend to transfer to a 4-year college or university. Resources include: online college catalogs, transfer admissions application assistance, transfer workshops on majors/applications/financial aid, the latest information on transition from Chabot College to a 4-year college/university, as well as the opportunity to meet with representatives from those colleges. The Transfer Center is located in Building 700, 2nd Floor. For more information, students may call (510) 723-6720 or visit us online at www.chabotcollege.edu/counseling/TECS.

FINANCIAL AID

Financial aid is money provided by the Federal Government, the State of California, and administered by the Chabot Financial Aid Office, to help cover costs associated with attending college at Chabot. The college provides financial assistance to eligible students through scholarships, grants, loans and job opportunities: Federal Pell Grants, Federal Supplemental Educational Opportunity Grants (SEOG), Federal Work Study (FWS), Federal Stafford Loans, Cal Grants, Bureau of Indian Affairs grants (BIA), and other external scholarships. The CA Board of Governor's Fee Waiver program will waive the fees for eligible CA residents.

Students are responsible for knowing all eligibility and renewal requirements and criteria for each type of aid they apply for or receive. The Chabot website is the best source of current information and updates. Links to apply for financial aid, information regarding state, federal and institutions' policies, and additional Chabot forms for financial aid processes are available through the Financial Aid Office's web page at www.chabotcollege.edu/FinAid.

Students must apply by March 2nd of each year prior to the fall semester if they wish to be considered for the Cal Grant Program, and for maximum types and amounts of all financial aid programs (including limited SEOG and FWS funds). Students applying later than this date will be considered for aid as it remains available, and in the order their applications are received, processed and awarded. Each student must reapply each year to be considered for financial aid. Students may view current, accurate information regarding their file status, eligibility, and awards on Class Web.

FINANCIAL AND ACADEMIC ELIGIBILITY

To be eligible to participate in the Title IV student financial aid provided by the U.S. Department of Education and the Chabot-Las Positas Community College District, **students must demonstrate both financial and academic eligibility.**

Financial eligibility is determined by completion and verification of the Free Application for Federal Student Aid (FAFSA), and academic eligibility is determined by review of academic progress after each term. Maintaining Satisfactory Academic Progress requires all three eligibility criteria are met: minimum 2.00 semester and cumulative grade point average; minimum completion rate of 67% each term; and maximum period of eligibility at 150% of program length in attempted units, or credit hours.

New students are required to provide academic transcripts from prior colleges and universities for review of academic progress by the Financial Aid Office, regardless of whether or not the transcripts are required for the Admissions process, and regardless of whether or not aid was applied for or received for the prior academic attempts.

Students who are determined to be ineligible for financial aid due to failure to demonstrate satisfactory academic progress, or who have exceeded the time limits for eligibility, may request reconsideration if they have extenuating circumstances through an appeal process.

See Chabot College's Financial Aid website for detailed eligibility requirements and policies. See Class Web Financial Aid for individual financial aid file status.

STUDENT SUCCESS AND SUPPORT PROGRAM

Student Success and Support Program (SSSP), created by the California Legislature, is a new program designed to help students succeed at Chabot College. The program defines responsibilities of both the college and its students. SSSP requires that students complete assessment, orientation, and a student education plan (SEP) in order to receive the best priority registration dates at Chabot. By completing these core services when one first starts attending Chabot College, students not only get that best priority registration, but also get to form a partnership with Chabot to help them develop and realize their educational goals. SSSP helps students from the moment they apply until they complete their studies at Chabot College!

Chabot provides the following core Student Success and Support Program (SSSP) services required for priority registration:

- Online Orientation—introduces new students to college instructional programs and student services
- Assessment—in math, English, ESL, and chemistry
- Counseling and advising for course selection and the development of a Student Educational Plan (SEP)
- Quality Instruction
- Follow-up—on a student's academic and course completion progress with referral to support services when needed
- Institutional research and evaluation to monitor the effectiveness of all services provided
- *You, the student, agree to participate in the Student Success and Support Program by:*
- Expressing an educational goal and declaring a specific major upon admission to Chabot College
- Completing online orientation, as well as math and English or ESL assessments
- Participating in a PSCN 25 (Transition to College)group counseling workshop to develop an abbreviated Student Education Plan (½ unit of coursework can be earned for this workshop)
- Attending classes and completing assigned work
- Meeting with counselors to discuss your educational choices
- Seeking support services as needed to assist you in completing course work and maintaining progress toward your educational goal based on standards set by Chabot College



CORE SERVICE EXEMPTIONS

Assessment Exemption

If a student has an AP English and/or math test score of 3 or better (a copy of the AP score report is required); and/or

If the student completed a college-level English and/or mathematics course with a grade "C" or higher (official transcripts required) he/she may be exempted from the assessment core service.

No Student Education Plan Exemption

There are no exemptions to the Student Education Plan. Any student who believes they are eligible for exemption from any of the Student Success and Support Programs core services should consult with a counselor in Building 700.

Students who are exempt from any of the core services still need to meet with a counselor to ensure all requirements are met for priority registration. Exemption from core services does not guarantee priority registration.

Any student who believes he/she has been discriminated against in the Student Success and Support Program (assessment, orientation, student education planning) may file a grievance with the Dean of Counseling located in Building 700, Room 750.

REGISTRATION

NEW STUDENTS

Students who have never attended the Chabot/Las Positas Community College District will need to complete the following steps for registration:

1. Complete and submit an application for admission online at www.chabotcollege.edu
2. Access student Zonemail
3. Submit official transcripts
4. Complete the assessment test
5. Complete the orientation by visiting www.chabotcollege.edu/counseling/orientation
6. Attend a PSCN 25 session
Visit www.chabotcollege.edu/Counseling/pscn.asp for more information
7. Register for classes online by logging into CLASS-Web or The Zone - on or after assigned registration date
8. Pay fees online
9. Buy parking permit
10. Get student ID card
11. Attend classes

FORMER STUDENTS

Students who are not enrolled in the current term but who have previously attended the Chabot/Las Positas Community College District will need to complete the following steps for registration.

1. Complete and submit a new application for admission online at www.chabotcollege.edu
2. Former students on probation must obtain counselor advisement and approval before proceeding with registration
3. Former students on dismissal status must submit a Petition for Admission from Dismissed Status to the Director of Admissions & Records
4. Access student Zonemail
5. Log on to CLASS-Web to check priority registration status
6. Register for classes online by logging into CLASS-Web or The Zone
7. Pay fees online
8. Buy parking permit
9. Attend classes

CONTINUING STUDENTS

Students who are enrolled in the current semester are considered continuing students. Students must be registered in at least one course past the NGR (No Grade of Record) deadline each semester to maintain status as a continuing student.

Log on to CLASS-Web or The Zone to check priority registration status. Instructions on how to use the online registration system (CLASS-Web—Chabot-Las Positas Automated Services System) is posted on the college website at www.chabotcollege.edu.

PRIORITY REGISTRATION

Registration priority group and registration date will be determined by the completion of the three Core Services (Assessment, Orientation, and Student Education Plan), the number of units completed and in progress at Chabot-Las Positas Community College District, and maintenance of good academic standing.

The California Community College Board of Governors approved a policy change to establish system-wide registration priorities in an effort to improve student success. The new regulations are designed to ensure that classes are available for students seeking job training, an associate degree or transfer, and to reward students who are making academic progress towards their academic goals. Consequently, enrollment priorities have been redefined and changes have gone into effect.

Under the new regulations, new and continuing students who have completed college assessment, orientation, and developed education plans, as well as students in good academic standing who have not exceeded 100 units (not including units in basic English, Math or English as a Second Language) will now have enrollment priority over students who do not meet these criteria. Students will now register for courses according to an enrollment priority system as defined by Title 5 regulations and the Chabot-Las Positas Community College District. Priority Groups information is included in the current class schedule and posted on the college website at www.chabotcollege.edu.

REGISTRATION METHOD

Students may register for classes by logging on to CLASS-Web or The Zone, accessible from www.chabotcollege.edu. Special registration assistance is available to students with disabilities through the Disabled Student Resource Center.

NOTE: There are some classes that are designated for students in special programs (PACE, Puente, Daraja, etc). Students who are not in a special program must register for a different section.

WAITLIST

Waitlist is a registration feature in CLASS-Web that goes into effect when a class is closed and has reached its enrollment limit. Waitlist information is available online at www.chabotcollege.edu/admissions/waitlist.asp.

SCHEDULE OF CLASSES

Prior to the beginning of each semester, the schedule of classes is available online at www.chabotcollege.edu. Limited published copies are available at Online Services.

STUDENT FEE PAYMENT POLICY

Fees must be paid in full by the scheduled payment due date or the student may be dropped from classes. Enrollment each term is conditional. Chabot College reserves the right to cancel registration.

CALIFORNIA RESIDENTS—ENROLLMENT FEE

California residents, except those exempt by law, will be charged an enrollment fee of \$46 per unit for classes at Chabot College. *Enrollment fees are subject to legislative changes throughout the year.*

NONRESIDENT TUITION

Nonresidents of California are required to pay a tuition fee of \$243 per unit in addition to the enrollment fee.

INTERNATIONAL STUDENT TUITION

The tuition fee for international students, non-immigrant aliens or students on other visa types is \$243 per unit in addition to the enrollment fee. International students (F-1 and M-1 visa) are required to enroll in a minimum of twelve units per semester.

EXEMPTION FROM NONRESIDENT TUITION

AB540, effective January 2, 2002, does not grant residency, but it does require that certain nonresident students who attended three years of high school in California AND received a high school diploma or its equivalent be exempted from paying nonresident tuition. Students exempted from paying nonresident tuition pursuant to §68130.5 do not become residents for eligibility purposes for any state-funded program. This benefit is available to all U.S. citizens, permanent residents of the U.S., and aliens who are not nonimmigrants (including those who are undocumented), who meet all other eligibility criteria.





EXCEPCIÓN DE LA MATRICULA DE NO-RESIDENTE DE CALIFORNIA

Para estudiantes elegibles que se graduaron de una High School de California
(La legislatura aprobó la ley bajo el nombre "AB 540")

INFORMACIÓN GENERAL

Todos los estudiantes (menos los extranjeros que no sean inmigrantes) que cumplen con los requisitos siguientes no tienen que pagar la matrícula de no-residente en las universidades públicas del estado de California, que son: los California Community Colleges, California State University, y University of California.

- Los Requisitos:
 - El estudiante tiene que haber asistido a clases de un High School en el estado de California (pública o privada) por lo menos tres años.
 - El estudiante tiene que haberse graduado de un High School de California o haber aprobado un examen de graduación (por ejemplo, el GED o el examen California High School Proficiency) antes del comienzo del periodo académico.
 - Todos los estudiantes que no tengan un estado de inmigración legal deben someter una declaración con la universidad en la cual indiquen que ya han sometido una petición para arreglar tal estado o, si esto no es posible en la actualidad, que lo van a hacer tan pronto califiquen.
- Los estudiantes que tienen visas de no-inmigrantes (las visas de estudiante 'F' y las visas de turista 'B') no califican para esta excepción.
- El estudiante tiene que someter una petición para la excepción con la universidad, incluyendo una declaración legal firmada en la cual afirma que ha cumplido con todos los requisitos pertinentes. Esta información se mantendrá confidencial al menos cuando la ley requiera que se proporcione.
- Los estudiantes elegibles para esta excepción que piensan cambiarse a otra universidad pública deben someter una nueva petición para esta excepción a cada universidad en la cual se piensen matricular (y si es necesario los documentos necesarios).
- Aunque los estudiantes no-residentes que complen con esos requisitos no tendrán que pagar la matrícula de no-residente, no se convierten en residentes de California a través de esta nueva ley. Siguen siendo non-residents.
- La ley AB540 no ofrece a los estudiantes sin documentos la posibilidad de conseguir becas gubernamentales. Estos estudiantes siguen inelegibles para estas becas, tanto al nivel nacional como al nivel estatal.

HEALTH SERVICES FEE

The Associated Students of Chabot College approved the mandatory health service fee of \$17 per semester and \$15 for Summer Session to provide health services for enrolled students.

The only exceptions to not paying the Student Health Fee are as follows:

- Students who are taking classes held only on Saturday or at an off-campus site, including approved apprenticeship programs; or
- Students who rely on prayer for healing in accordance with teachings of a bona fide religious sect, denomination, or organization. To apply for a waiver, students must provide a statement of such reliance from an official of the sect, denomination or organization to the Office of Student Life.

Please contact the Health Center for information about services and referrals. The Center is located in Room 204 in Building 200 or visit the website at www.chabotcollege.edu/HealthCenter.

STUDENT ACTIVITIES FEE (OPTIONAL)

The Student Activities Fee is an optional fee of \$10, charged per semester. Students paying this fee receive an activity sticker which intends to provide merchant discounts, discounts on student activities and sports. This fee helps finance student activities, Chabot College clubs, scholarships, and other student-related services.

COLLECTION POLICY

Chabot-Las Positas Community College District may refer a student's outstanding debt to a collection agency and/or the State of California Franchise Tax Board (FTB) for collection. Once referred, additional fees may apply and credit rating may be affected. If debt is referred to the FTB, amount owed may be deducted from a student's state tax refund, California lottery prize, or unclaimed property.

ENROLLMENT REFUND POLICY

Students may request a refund of enrollment fees as long as the student withdraws from the class during the first two weeks of a full-term class, or by the 10% point of the length of a short-term class. Refunds are not automatic. Requests for refunds must be filed by June 30 for the academic year just ended. Credit balances do not carry over from one academic year to the next.

A student who must withdraw for military purpose shall be refunded 100% of fees paid for the term, regardless of the date of withdrawal. In this case, requests for refunds made after the end of the academic year will be honored.

To apply for an enrollment fee refund, student must submit an Application for Refund of Fees form to the Admissions and Records Office. This form is available online at www.chabotcollege.edu/admissions.

- No refunds will be given for classes dropped after the last day to drop with No Grade of Record (NGR).
- A \$10 processing fee will be subtracted from each enrollment fee refund. (NOTE: No processing fee will be charged if classes were canceled by the college).
- The mailing, health services and Associated Students activity fees are not refundable.
- Refund checks from the Chabot-Las Positas Community College District Business Office will be sent by mail approximately 6 to 8 weeks after the request is submitted.
- Non-resident and International tuition refunds will be given as follows:
 - » Prior to the first day of instruction = 90%
 - » During the first week of Instruction for a full-term class = 75%
 - » After the first week of Instruction for a full-term class = No Refund

For further information concerning tuition changes, go to www.chabotcollege.edu.



REGISTRATION POLICIES

PREREQUISITES

Many courses offered by the College require the completion of prerequisite courses taken at Chabot College, or their equivalent at another accredited institution. Students are advised to consult the course descriptions found in the current College Catalog for the identification of the prerequisites for a course. Courses with prerequisites are also designated in the current class schedule.

Important Definitions. If you should see the words **Prerequisite**, **Corequisite** or **Strongly Recommended** in the catalog, it is important for you to understand the definition of these terms.

Prerequisite means a condition of enrollment which a student is required to meet in order to demonstrate current readiness for enrollment in a course or educational program.

Corequisite means a condition of enrollment consisting of a course which a student is required to simultaneously take in order to enroll in another course. This condition of simultaneous enrollment is required throughout the duration of the term. Should one of the corequisite classes be dropped for any reason, the student will be disenrolled from the other corequisite class.

Strongly Recommended means a condition of enrollment which a student is advised, but not required, to meet before, or in conjunction with, enrollment in a course or educational program.

Conditions for Challenging Prerequisite:

1. Challenging the prerequisite on the grounds that it has not been made reasonably available.
2. Challenging the prerequisite on the grounds that it was established in violation of regulation or in violation of the District-approved processes. (*student documentation required*).
3. The prerequisite is discriminatory or applied in a discriminatory manner (*student documentation required*).
4. Challenging the prerequisite based on a student's knowledge or ability to succeed in the course despite not meeting the prerequisite (*student documentation required*).

For more information, visit website www.chabotcollege.edu/counseling/prerequisites.asp. Challenge forms are available from the Counseling Office or Academic Division offices.



REQUEST FOR COURSE SUBSTITUTION OR WAIVER OF PROGRAM REQUIREMENT

Students who have had substantial prior experience related to the content of a college level course and who can present adequate evidence of their competence may petition to have enrollment in that class waived without college credit for purposes of satisfying a program requirement. Petitions of course substitution or waiver of program requirements are available from the Counseling Division. Approval of the request by faculty in the related discipline, the Division Dean, and the Dean of Counseling at Chabot College is required prior to completion of registration. Approval shall be based on the following criteria:

1. Adequate evidence of competence as supported by transcripts, statements of employers, military or technical school certificates, etc. Course substitutions for transfer requirements and/or transfer associate degrees (AA-T/AS-Ts) are subject to additional guidelines according to CSU, UC and/or the State of California.

Statement of an appropriate subject matter instructor, Dean or Counselor to validate course equivalency. Students shall be advised that courses waived receive neither unit nor grade credit and other courses may be needed to satisfy the total number of units required to complete the program of study.

OPEN ENROLLMENT

It is the policy of this District that every class offered, unless otherwise indicated in the official catalog and schedule of classes, shall be fully open to enrollment and participation by any person who meets the academic prerequisites of such class and who is otherwise eligible for admission at Chabot College.

ENROLLMENT LIMITS

Students are cautioned that some classes and programs may prove to be so popular or be limited by physical facilities and/or availability of qualified instructors that all students who apply cannot be accommodated.

LIMITATION ON UNIT LOAD

Eighteen units per semester is considered to be a maximum load for a student. In order to take more than the maximum, approval must be obtained from a counselor.

STUDENT LOAD CLASSIFICATION OF STUDENTS BASED ON UNIT LOAD

The following classifications have been established based on unit load:

- Full-time student**—registered for 12 or more units
- Three-quarter student**—registered for 9.0 to 11.5 units
- Half-time student**—registered for 6.0 to 8.5 units

BASIC SKILLS COURSE LIMITATION

Basic skills courses (courses numbered above 100) are not degree-applicable. Basic skills courses provide a foundation in reading, writing, mathematics, English as a Second Language, learning and study skills. Students are expected to learn skills necessary to succeed in college-level work. Except as specifically exempted, no student shall accrue more than 30 units of credit for basic skills coursework at the College. (Title 5, §55756.5)

The following classifications of students are exempted from the 30-unit limitation on Basic Skills coursework:

- Student enrolled in one or more courses of English as a Second Language
- Students identified as learning disabled according to Title 5, §56014 and §56029.

Non-exempt students who have exhausted the unit limitation shall be referred to appropriate alternate educational service providers.

COURSE CONFLICT/COURSE OVERLAP

Students may not enroll in two classes that meet during any part of the same hour. (Title 5, Section 55007)

COURSE ADD PROCEDURE

Students may attempt to add into open full-term classes during the first few weeks of instruction. Add Authorization numbers are generated on a random basis for instructors to issue to students. Go to www.chabotcollege.edu/admissions/registration for add procedures. Go to CLASS-Web for add deadline.

DROPPING OR WITHDRAWING FROM CLASSES

Students are responsible for dropping or withdrawing from classes. Failure to follow the withdrawal procedures may result in a grade of "F." Students who drop before the no grade of record period will not have a grade appear on their transcript. Student who drop after the no grade of record ("NGR") deadline and before the withdrawal deadline will have a "W" on their transcript.

Drop and withdrawal deadline dates are listed in Schedule of Classes and also online. Students may drop online, via CLASS-Web (www.chabotcollege.edu).

Withdrawals do not affect the students' grade point average; however, excess "W" notation may result in (1) poor progress or dismissal status, and affect (2) full-time enrollment status, (3) eligibility for financial aid and other benefits, and (4) athletic eligibility.

Students may withdraw no more than 4 times for the same course. Subsequent enrollment in the course will require special permission from the Vice President of Student Services or designee. (*Title 5, §55024*)

WITHDRAWING WITH EXTENUATING CIRCUMSTANCES

Students may withdraw from a class with extenuating circumstances after the Withdrawal deadline and prior to finals week. Documentation must be presented verifying the situation, the instructor must verify that the class is being passed with a minimum of a “D” grade and the Dean of Counseling must approve the request. Circumstances that will be considered are acute medical problem, acute personal or family problem, employment related problem or other similar circumstances preventing a student from completing the class.

MILITARY WITHDRAWAL

If a student is called to active military duty any time during the term, he or she is entitled to military withdrawal (MW). Service men and women must provide copies of their military orders to the Director of Admissions and Records.

TOTAL WITHDRAWAL

Students who intend to withdraw from the college must initiate withdrawal procedures for each class in which they are enrolled. Students are held accountable for clearing all obligations with the college including fees, library books, equipment, and lockers. The deadline for withdrawal from classes with a guaranteed symbol “W” is 75% of class meetings. Go to www.chabotcollege.edu for deadlines.

INSTRUCTORS’ WITHDRAWAL OPTION

Students who miss the first meeting of a course may be dropped by the instructor. The first meeting of online or hybrid Distance Education courses is the first day of the class as specified in the class schedule listing. For these courses, instructors may drop students who do not login to their Blackboard course and/or complete indicated activities by the third day of classes. In addition, an instructor may initiate a drop if the student is absent for a total of four (4) consecutive or six (6) cumulative instructional periods and/or two (2) consecutive weeks of instruction.

REPEATING A COURSE

California Title V Regulations, as amended, determine the conditions and processes related to repetition, enrollment, and apportionment limits at California Community Colleges. An “Enrollment” occurs when a student receives an evaluative OR non-evaluative symbol on their official transcript per §55023 (A, B, C, D, F, FW, P, NP, NC, CR OR W, I, IP, RD, MW). Only a Military Withdrawal (MW) does not count toward “enrollment.”

Unless a course is noted as “repeatable”, on the official course outline, the student who receives a satisfactory grade (C, P, or higher) cannot repeat the course, unless an exemption applies per §55042(b). If a student receives a sub-standard grade and/or withdraws from the course, the student is allowed to enroll in that course TWO more times (for a total maximum of THREE enrollments) per §58161. California Title V Regulations specify the circumstances under which a student may repeat a course per sections 55040-55045.

Only three kinds of courses can indicate the course is repeatable on the course outline of record (55040). Courses for:

- Intercollegiate Athletics (any course with an ATHL rubric)
- Intercollegiate competition type courses like Forensics in Communication Studies
- Any course(s) required as lower division preparation to for a major at the UC/CSU (typically designated Music classes)

PROCEDURE FOR PETITIONING TO REPEAT A COURSE

For all other requests to repeat a course where the student has completed the course with a C or P, has been blocked due to exceeding the limit of 3 attempts, or another reason needs to submit a **Petition to Repeat a Course** to the Counseling Division to be reviewed by a Counselor. This document is required for approval of repetitions beyond the limits noted in California Title V Regulations. Documentation may be required depending on the reason for the **Petition to Repeat**.

The following are the specific elements that may be addressed on the Petition to Repeat a Course:

- A. Significant Lapse of Time (per 55043 & 55003)— campus recency pre-requisite for [course number] Significant Lapse of Time (per 55043 & 55003)—another institution of higher education for [program].
- B. Extenuating Circumstances (per 55045)—previous grade resulted from verified extenuating cases of accidents, illness, or other circumstances beyond the control of the student. Describe below the accident, illness or circumstance beyond your control. Documentation is required that supports the extenuating circumstance.
- C. Special Course Repetition (per 55040 and 56029) —student with a disability repeating a special class for students with disabilities based on an individualized determination that such repetition is required as a disability-related accommodation for that student. Check with Disabled Students Resource Center (DSRC) for verification of disability.
- D. Extraordinary Conditions [(per 55024(a)(10))—one of previous three enrollments noted on student transcript resulted due to fire, flood, or other extraordinary conditions (per 55024 & 58509) OR if the District was unable to keep the college open for at least 175 days due to fire, flood, epidemic, emergency created by war, or other major safety hazards (per 58146).



- E. Legally Mandated Training [(per 55041(b) & 58161(c) (1)]—necessary to meet legally mandated training requirements as a condition of paid or volunteer employment. Significant Change in Industry or Licensure Standards [(per 55040(b) (9)]—and condition of paid or volunteer employment. Documentation is required from the agency or place of employment or prospective employer.
- F. Military Withdrawal [(per 55024(d)(1)]—student on active or reserve duty in U.S. Military received orders compelling withdrawal. Upon verification of orders, enrollment does NOT count in maximum number of enrollments nor withdrawals.
- G. Portion of Variable Unit Open Entry/Open Exit Credit Course (per 55044)—enrollment required to complete ONE TIME the entire curriculum of the variable unit course as described in the course outline of record. May NOT repeat any portion of the course, unless it is a) legally mandated, b) a special class for students with disabilities, c) justified by extenuating circumstances above, or d) to alleviate substandard work recorded for that portion of the variable unit course.
- H. Cooperative Work Experience [(per 58161 (c)(4) & 55252)]—enrollment in a cooperative work experience course.

When a student has repeated a course the most recent grade points are applied to the student's grade point average and academic progress standing.

Students are advised that both the original and subsequent grade will remain on their transcript and that in transferring to other institutions, they may be held responsible for all units attempted.

TEXTBOOKS AND SUPPLIES

All students are required to furnish their own textbooks and supplies which are available at the College Bookstore. Typical costs for books and supplies average \$500 per semester for those persons pursuing a full-time program. Students financially unable to buy their own books and supplies should contact the Financial Aid Office.

TRANSCRIPTS

Students who desire transcripts of their academic record at Chabot College must submit a written request to the Admissions and Records Office indicating the number of transcripts requested and the designated recipient(s). Transcripts are provided only in response to a written request from the student. Official transcripts will be mailed directly to the designated recipient(s).

TUTORING (THE LEARNING CONNECTION)

The Learning Connection at Chabot College offers FREE tutoring and study groups in a variety of subjects by appointment or on a drop-in basis. All tutors and learning assistants are Chabot College students who have been recommended and trained by Chabot instructors. Anyone enrolled at Chabot can use our services. We offer the following:

- Individual and group tutoring by appointment
- Study groups by course
- Conversation groups for world language and ESL courses
- Drop-in tutoring by subject, including the Math Lab and the WRAC (Writing and Reading Across the Curriculum) Center
- The ESL Language Center Lab
- The Communication Studies Lab
- Learning Assistants – tutors who work in classrooms as requested by instructors

For current locations and hours of service please visit us at www.chabotcollege.edu/LearningConnection. Current tutoring labs and learning support programs across campus include the Learning Connection (LC) for tutoring across the curriculum, the Writing and Reading Across the Curriculum (WRAC) Center; and the Language Center for ESL support all housed on the bottom floor of Building 100, Room 108. The Communication Studies Lab is located in Building 800, Room 803, the STEM Center is in Building 3900, Room 3906, and the World Languages Lab in Building 300, Room 352. In addition, in-class tutors, or Learning Assistants, are available upon instructor request to support students in their classrooms.



Chabot College Learning Connection

The Learning Connection offers free tutoring and access to a wide variety of academic support resources to students enrolled at Chabot College.

- Individual and group tutoring by appointment
- Drop-in tutoring by subject
- Computer lab equipped with a GoPrint printer
- Small study rooms with whiteboards
- Open study areas with tables and chairs
- The WRAC Center – drop-in tutoring for writing and reading assignments in any subject
- The ESL Language Center
- The Communication Studies Lab (Room 803)
- The STEM Center (Room 3906) – academic support, resources, and drop-in tutoring for math & science courses

Building 100, Room 108 • (510) 723-6920
learningconnection@chabotcollege.edu
www.chabotcollege.edu/learningconnection
www.facebook.com/ChabotCollegeLearningConnection



A Learning Connection Center for Teaching and Learning is being developed to support teaching excellence. The CTL will offer instructors and staff opportunities to investigate common teaching themes with colleagues on and off campus, conduct research in teaching and learning, become proficient in the use of instructional technology, develop curricula, and engage in other activities related teaching and learning.

For current locations and hours of service please visit us at www.chabotcollege.edu/LearningConnection, call (510) 723-6920 or e-mail learningconnection@chabotcollege.edu

STUDENT LIFE

OFFICE OF STUDENT LIFE

The Student Life office helps students maximize their experience at Chabot College by providing opportunities for leadership development, involvement in shared governance and student-run clubs and organizations, attending and planning special events, community service opportunities, and other ways to get engaged with the campus and greater community. These co-curricular experiences allow students to grow as leaders, develop valuable skills that future employers are looking for, and make a positive impact on their campus and community. The Student Life office is in Building 2300, Room 2355, on the second floor. Visit the Student Life website at www.chabotcollege.edu/studentlife.

STUDENT SENATE OF CHABOT COLLEGE

The Student Senate of Chabot College (SSCC) is a great opportunity for students to practice leadership skills and improve the student experience for their peers at Chabot College. The SSCC is the official voice of students at Chabot College and provides opportunities for student input on campus policies, procedures, improvements and more. The SSCC supports Student Live by hosting and sponsoring special events and activities on campus. The SSCC also represents the students of Chabot College in the community through regional and state Student Government organizations.

INTERCLUB COUNCIL

The Interclub Council (ICC) provides an opportunity for student organizations at Chabot College to network with, support their fellow organizations, and take collective action to enhance the Student Life experience on campus. The ICC promotes collaboration among student organizations and provides funding and other resources to recognized student organizations.

STUDENT ORGANIZATIONS

Student Organizations are another great way to meet other students, learn about campus activities, develop leadership skills, and serve the campus and community. A list of currently recognized student organizations is available on the Student Life website, <http://chabotcollege.edu/studentlife/clubs&orgs.htm>. Student Organizations must complete the recognition process through the Student Life Office on an annual basis in order to utilize campus resources. We also encourage students to start new organizations by visiting the Student Life office.

SPECIAL EVENTS AND CAMPUS ACTIVITIES

A wide variety of special events and activities are offered on a regular basis by the Student Life office and various campus partners, including the Student Senate of Chabot College, student organizations, and campus departments and organizations. These events provide educational opportunities, social activity, community service and engagement and lots of fun! Events range from concerts, to carnivals, to sporting events, special lectures and performances, and more. For information about special events and campus activities contact the Student Life office.

HOUSING

Chabot College does not provide any sponsored housing programs. Listings of open apartments, roommates, open rooms, etc., are posted regularly on community bulletin boards throughout the campus. All community members are welcome to post information on these boards, and listings are not verified or sponsored by Chabot College.

HEALTH SERVICES

STUDENT HEALTH CENTER

All students are eligible for unlimited visits to the Student Health Center located in Building 200 Room 204. Services at low or no cost include assessment, evaluation, and treatment for minor illnesses and injuries, physical examinations, over-the-counter medications, immunizations, reproductive health services, non-urgent emergency care, early illness intervention, physician referrals, and health education and advisement. The Center is open five days a week with limited evening hours. Telephone (510) 723-7625.

DENTAL HYGIENE CLINIC

The Dental Hygiene Clinic is located in Building 2200, Room 2203 and is open to all students, faculty and staff. Dental hygiene services include oral health screenings, blood pressure checks, teeth cleanings, nonsurgical periodontal therapy, exams, x-rays, and sealants. Dental referrals to local clinics are provided. The clinic is open during the Fall and Springs semester. Call (510) 723- 6900 for an appointment.



CAMPUS SAFETY AND SECURITY

MISSION STATEMENT

The Chabot College Department of Safety and Security, in partnership with the Hayward Police Department, is committed to providing a safe and secure learning and work environment for all members of the campus community and guests. We recognize our role as service providers and are dedicated to delivering consistent and quality service to diverse groups of people and individuals alike.

ABOUT THE DEPARTMENT OF CAMPUS SAFETY AND SECURITY

The Chabot College Department of Campus Safety and Security is comprised of a unique partnership between Chabot College and the Hayward Police Department. The director is a sworn Hayward police sergeant who is augmented by a staff consisting of classified campus safety officers, classified dispatchers, hourly campus safety officers, and hourly student cadets. This blend of police and civilian staff affords a greater range of services to our campus community. Officers are on duty at all times when classes are in session, and on weekends and holidays to patrol the campus. Officers enforce the laws of the State of California and regulations adopted by the Board of Trustees of the Chabot/Las Positas Community College District.

Chabot College is concerned about the safety and welfare of all members of the college community and is committed to providing a safe and secure environment. Although the college has been fortunate in not having experienced a significant number of criminal incidents, it would not be honest to assume such incidents could not take place. Therefore, we have developed policies and procedures designed to prevent or minimize the potential for criminal events before they take hold. Please take the time to read the section on crime prevention, safety programs, and crime statistics or contact the Department of Campus Safety and Security for more details.

CONTACTING THE DEPARTMENT OF CAMPUS SAFETY AND SECURITY

The Chabot College Safety and Security Department public office is located in Building 200, Room 203. When the office is closed, the on-duty security officer can be contacted by telephone in the following ways.

- From any off-campus telephone dial **(510) 723-6923 or 6923** from any college phone
- Activate any one of the **Red Emergency Talk A Phones** located throughout the campus
- **FOR EMERGENCIES DIAL 911 FROM ANY PHONE**

REPORTING CRIMES, SUSPICIOUS ACTIVITIES, OR SAFETY HAZARD

All members of our campus community must share responsibility in reporting crimes, suspicious activities, and safety hazards to keep our campus safe for all. Crimes against persons and violent crimes will be investigated on campus jointly by the Hayward Police Department and the campus safety officer. Crimes against property will be investigated by a campus safety officer unless the incident involves a substantial loss or theft of a motor vehicle. Suspicious activities and safety hazards will be investigated promptly by the on-duty campus safety officer who will delegate the appropriate resources to resolve the incident.

CRIME PREVENTION

The most essential element of any effective crime prevention program is educating the members of the community. We offer several crime prevention tips and brochures published by the Hayward Police Department at the Office of Campus Safety and Security. Another key element to a successful crime prevention program is active participation by members of the community. Each of us can do our part to prevent crime by taking appropriate preventative measures and promptly reporting crimes or suspicious activities. Here is how you can do your part.

- Avoid isolated, dark, or less traveled areas of the campus.
- Walk in well traveled, lighted areas.
- Try to avoid walking alone at night. Stay in groups or take advantage of our Safe Ride program which offers student escorts.
- Carry a whistle, cellular telephone or other device to summon aid if you detect trouble.
- Stay alert and be aware of your surroundings.
- Become familiar with the locations of phones and Emergency Talk A Phones.
- Always lock your car and never leave valuables in sight.
- When returning to your vehicle, always have your keys in hand for a speedy entry. Check the rear seat of your vehicle before entering and immediately lock your car doors upon entering.
- Avoid working or studying in buildings alone at any time.
- Report any suspicious activity to the Department of Campus Safety and Security.

SAFETY PROGRAMS AND MEASURES

Safe Ride Program—The Department of Campus Safety and Security offers escorts to the campus community to and from the parking lots. To arrange to have an escort accompany you from your classroom or office to your vehicle, dial 6923 from any college phone, or activate a nearby Emergency Talk A Phone. An escort will be dispatched by radio to meet you at your location.

The Department of Campus Safety and Security sponsors educational programs on a wide variety of issues related to crime prevention and personal safety. Check with the Campus Safety and Security office or Office of Student Life for details on upcoming events. In addition, the Department of Campus Safety and Security is committed to keeping the campus community informed about patterns, trends, or incidents that pose a threat or substantial risk to our community. Such information is typically published in special crime bulletins posted at the office of the Department of Campus Safety and Security or other campus media such as the campus newspaper, *The Spectator*.

Safety through environmental design is yet another component of effective crime prevention. Our Maintenance and Operations Department works hard at keeping the campus grounds well groomed and adequately lit during darkness. The campus grounds and parking lots are lit at nightfall until 11:00 p.m. during normal days of operation. Emergency Talk A Phones and telephones are strategically located throughout the campus for your safety.

Emergency Talk A Phones are outdoors in all the parking lots and adjacent to the athletic fields. They can be found by locating the Red Emergency Talk A Phone or illuminated blue light during darkness. Simply follow the directions on the Talk A Phone for assistance. The location of our Red Emergency Talk A Phones can be found under the parking lots section of this publication.

Emergency Campus Telephones can be found in all of our elevators and buildings. The telephones are marked "Emergency Telephone" and are mounted to the wall. Simply open the box, pick up the phone and follow the printed directions. Elevator phones will dial directly to the Campus Safety and Security Office while other phones require you dial the Campus Safety and Security extension (6923 or 6666). Please familiarize yourself with the locations of the emergency phones in the areas you travel on campus.

CHABOT COLLEGE CRIME STATISTICS

In 1998, the federal government passed The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, formerly The Student Right to Know Act of 1990. This law requires colleges and universities receiving federal funding to disclose the reported instances of criminal activity on their campuses. The following table is an accounting of mandatory crime statistics on campus.

You may contact the Hayward Police Department **(510) 293-7272**, for crime statistics on public property adjacent to the campus.

CHABOT COLLEGE CRIME STATISTICS

	2010	2011	2012	2013	2014
Murder/Non Negligent Manslaughter	0	0	0	0	0
Negligent Manslaughter	0	0	0	0	0
Sex Offenses-Forcible	1	1	0	1	0
Sex Offenses Non Forcible	0	0	0	2	0
Robbery	6	3	5	0	0
Aggravated Assault	1	5	2	4	0
Burglary	3	5	0	3	0
Motor Vehicle Theft	13	17	6	6	2
Arson	1	0	0	0	0
Illegal Weapons Possession	4	3	0	2	0
Drug Law Violations	7	4	4	7	2
Liquor Law Violations	0	1	4	1	0
Hate Crime	0	0	0	0	0
Domestic Violence				0	1
Dating Violence				0	0
Stalking				0	0



LOST AND FOUND

A centralized Lost and Found is located in the Campus Safety Office in room 203, building 200. Articles deposited with the Lost and Found are held until the end of each semester. After this period, unclaimed items will be disposed.

ON-LINE SERVICES/ WELCOME CENTER

The On-Line Services/Welcome Center, located in Building 700, Room 710, provides students online access to CLASS-Web which enables them to retrieve information regarding grades, enrollment, academic history, admission applications, assessment and registration. In addition, students can also access information for career exploration, financial aid, and transfer to colleges and universities.

PARKING

Parking on campus is a privilege extended by the Board of Trustees to the faculty, staff, student body and guests. To ensure safety and the efficient use of available parking space, parking rules and regulations adopted by the Board are enforced all year round. There are no grace periods or exceptions to the parking rules and regulations without the expressed direction of the Director of Campus Safety and Security. Drivers using college parking lots shall comply with the rules and regulations adopted by the Board of Trustees pursuant to California Vehicle Code §21113. Failure to comply with the parking rules and regulations may result in disciplinary action, the issuance of a parking citation and/or cause the vehicle in violation to be towed at the owner's expense. Please refer to the Parking Rules, Procedures, and Information bulletin or contact the Campus Safety and Security Department for more information.



PARKING PERMITS

Parking is by permit only. Student semester parking permits are *only* available online through CLASS-Web or The Zone. Daily parking permits can be purchased for \$2 from dispensers located in all the parking lots. Permits shall be hung from the rearview mirror or displayed on the vehicle dashboard. Permit enforcement hours are Monday through Friday, 7:00AM–10:00PM and Saturday, 7:00AM–5:00PM. Permit parking is not enforced on Sunday and holidays identified by the college. The following fees have been set for parking in accordance with §76360 of the California Education Code and adopted by the Board of Trustees.

Fall/Spring Semester motor vehicle:	\$30.00
Fall/Spring Semester motorcycle:	\$15.00
Summer Session:	\$15.00
Daily Permit:	\$2.00
Summer Session motorcycle	\$7.50

NOTICE: Parking permits do not guarantee a parking space, rather, they authorize parking in available spaces. Lost or stolen parking permits must be replaced at the owner's expense. Parking fees are subject to change. Please refer to your class schedule or the Campus Safety and Security Department for current fees.

PARKING LOTS

Parking lots are provided and maintained for the convenience of our campus community. Maintenance of the parking lot is funded exclusively by revenue generated through the sales of parking permits and citations. Parking is restricted to designated lots. For example, Faculty/Staff parking lots are restricted to holders of Chabot-Las Positas Faculty/Staff parking permits. Student lots are for use by students, staff, and visitors. All vehicles shall be parked clearly within a designated parking stall (between the white lines) and head in only. Motorcycles must be parked in designated motorcycle parking areas located in all student lots. Designated parking spaces are provided in all campus parking lots for holders of Department of Motor Vehicles disabled license plates or placards. A valid parking permit must also be displayed.

Do not park in white loading zones, yellow loading zones, or blue disabled spaces or access areas without proper authorization or placards. Never park, stop, or stand in any red zone, traffic thoroughfare, driveways, grass, or planter areas. Do not park, drive, stop or stand on the inner campus or athletic areas without express consent from the Director of Campus Safety and Security or his/her designee.

There are several features we offer to promote safety in our parking lots. First, the parking lots are lit during darkness up until 11:00 p.m. during days of normal operation. In addition, there are Emergency Talk A Phones strategically located throughout the campus and parking lots. Look for the Red Emergency Talk A Phone and blue light to locate the Emergency Talk A Phone nearest you. Simply follow the directions printed on the front of the Talk A Phone for assistance. The following is a list of Emergency Talk A Phone locations:

Parking Lot J	
Parking Lot B	Section B1, B4, B6, B15
Parking Lot A	Section A2, A8 near Campus Drive
Parking Lot D	Near Building 3900
Parking Lot E	Near Building 3400 behind Building 1400 (Automotive) behind Building 3500 (Children's Ctr.)
Parking Lot H	
Parking Lot G1, G2, G8 and G15	
Between Buildings 1400 and 1600	
Between Buildings 1800 and 2000	
Between Buildings 1900 and 2200	
Building 2300 walkway (by Building 100)	
Building 2100 walkway (facing Building 2400)	
Building 2500 walkway (next to Bookstore)	
Building 2700 (on the Swimming Pool upper deck)	
Softball Field Snack Bar Wall	
Soccer/Tennis Court Storage (on Athletic pathway)	

BICYCLES–MOTORCYCLES

Bicycles and motorcycles are encouraged alternatives to driving automobiles and/or mass transit. Special motorcycle parking areas are located in all of the student lots. Bicyclist can make use of bicycle racks conveniently located in Student Lot B and at buildings 100, 400, 700, 1200, 1500, 1800, 1900, 2600, 2900, 3800, and 4000.

Please observe the rules and regulations governing the use of motorcycles and bicycles on or about the campus. Contact Campus Safety and Security in Building 200, Room 203 for more information.

PUBLIC TRANSPORTATION

Direct service from the downtown Hayward BART station is available via AC Transit bus route 22. Current travel time is approximately 15-20 minutes depending on the time of day. AC Transit also offers several other routes to Chabot College from various points throughout their service area. More information on routes, schedules, prices, passes, etc., for both AC Transit and BART are available on www.511.org or by dialing 511.

DRIVING TO CAMPUS

If you choose to drive to campus, car pooling is encouraged. Information about a free carpool service is available online at www.rideshare.511.org. Calling 511 or visiting the www.511.org website is also a great source for real time traffic information to help you get to campus quickly and efficiently.

ACCESS TO COLLEGE FACILITIES

Standard operating hours for the Chabot College campus are as follows:

- Sunday—campus closed
- Monday through Thursday—7:00 am to 10:00 pm
- Friday and Saturday—7:00 am to 5:00 pm

During special events, certain areas may be open outside of standard operation hours. However, access to campus is limited to areas being used for these special events.

Individuals who require access to campus outside of standard operating hours must obtain authorization from their supervisor in advance. Individuals must also notify the on-duty campus security officer upon arrival to campus. All students, faculty, and staff should always be prepared to show Chabot ID to campus staff when they are on campus during times outside of standard hours. Failure to do so may result in being asked to leave the campus grounds.

Please note that campus buildings, classrooms, etc., are furnished with intrusion alarms, and attempting to enter facilities during non-standard hours should only be done after security or other authorized personnel have deactivated these alarms. Problems with alarms or other security issues should be reported to Campus Safety and Security as soon as possible by calling **(510) 723-6923; for emergencies please call 911.**

VISITORS TO THE COLLEGE

Visitors to the campus should first check in with Campus Safety and Security in Building 200 (room 203). Visitor to classrooms is possible, but only with permission of the instructor and with a special permit, issued by the Vice President of Student Services. Permits may be obtained by visiting the Office of the Vice President of Student Services in Building 700, room 708. Chabot College students may visit classes they are not enrolled in by obtaining prior permission from the course instructor. All visitation and use of Chabot College and Chabot Las Positas Community College facilities and property either stated or implied in other policies or practices, is subject to control of time, place, and manner.

Please note that campus buildings, classrooms, etc. are furnished with intrusion alarms and attempting to enter facilities during non-standard hours should only be done after security or other authorized personnel have deactivated these alarms. Problems with alarms or other security issues should be reported to Campus Safety and Security as soon as possible by calling **(510) 723-6923; for emergencies please call 911.**



USE OF FACILITIES

It is the policy of the Board of Trustees to encourage full use of the College facilities by community groups at such times as they are not required for the educational program. It is also the policy of the Board of Trustees that such usage must be on a cost-reimbursement basis. The Office of Administrative Services located in Room 208, Building 200, provides information and processes applications for the community use of Chabot College facilities.

PETS

No live animal, fowl or reptile, whether or not on a leash or in a cage, shall be allowed in any room or area where food or beverages is prepared, stored, kept or served.

Only registered service animals are allowed inside of buildings. Requests for other animals to be allowed on campus require special permission from the Vice President of Student Services. No owner or keeper of a dog shall allow or permit such dog to come on campus unless it is securely restricted by a substantial leash not to exceed six feet in length. The dog shall be in the charge of and under the control of a person competent to keep it under effective charge and control. Under no circumstances shall dogs be tethered and left unattended.

Any dogs on campus in violation of this regulation may be impounded by the College for ultimate transfer to the Hayward Police Department Animal Control Service.

Horses, ponies, mules, donkeys or other such animals are prohibited on the campus at any time, except when authorized by special permit issued in advance by the Vice President, Student Services, and cleared with the Campus Security Service.

STUDENT SUPPORT PROGRAMS

ASPIRE PROGRAM

(TRIO STUDENT SUPPORT SERVICES)

This program was designed to help low-income and first-generation college students and individuals with disabilities graduate from college with baccalaureate degrees. ASPIRE participants receive assistance with applying for financial aid; personal, academic and career counseling; tutoring; and assistance with applying to four-year colleges and universities. Higher education students are now being served at 796 colleges and universities nationwide. For information, call **(510) 723-7547**.

(TRIO EXCEL)

This program offers low-income and first generation and/ or disabled eligible ESL students an in-depth English program. Our bilingual counselor, instructor and staff offer one-on-one support engulfing the individual with rich cultural activities. Other services include individualized academic ESL courses, personal counseling, tutoring, career exploration, campus visits to UC, CSU and private Universities each semester. EXCEL participants are provided workshops on financial aid, time management and college university readiness. The program goal is to provide a safety net for ESL students and help make the dream of a postsecondary education a reality for this historically underrepresented population. For more information contact the TRIO office in building 700 or call **(510) 723-7547**.

(TRIO ETS—EDUCATIONAL TALENT SEARCH)

This program identifies and assists individuals from low-income and disadvantaged backgrounds who have the potential to succeed in higher education. The program provides academic, career, and financial counseling to its participants and encourages them to graduate from high school and continue on to the postsecondary institution of their choice. The Chabot College ETS program provides support at the following high school and middle schools: Hayward, Mt. Eden, Tennyson, San Lorenzo High Schools; Cesar Chavez, Winton, Martin Luther King, and Edendale Middle Schools. The goal of Talent Search is to increase the number of youths from disadvantaged backgrounds who complete high school and enroll in postsecondary education institutions of their choice.

CALWORKS

CalWORKs (California Work Opportunities and Responsibility to Kids) is the statewide comprehensive education/job training, job services, and job placement program. TANF (Temporary Assistance to Needy Families) provides time-limited benefits to TANF recipients who must be involved in work/job training activities as part of the Federal Welfare Reform.

Chabot provides training programs in collaboration with the County of Alameda for TANF/CalWORKs adult recipients in one- and two-parent families. Individualized education/training plans are developed which include classes that provide skills required for success in college and prepare the student for entering the workforce.

Support services include counseling, tutoring, career assessment, job search/preparation, and job placement. The goal of the individualized education and training program is gainful employment. Through cooperation with the Alameda County Social Services Agency, other support services, such as childcare and transportation can be provided.

For further information, contact the EOPS/CARE/CalWORKs reception desk, second floor kiosk, Building 700, or call **(510) 723-6909**.

DARAJA-UMOJA PROGRAM

The Daraja Project is a learning community designed to promote transfer and increase academic and personal success. This program addresses students' needs through academic support services and a curriculum focused on African American history, literature, and culture. Daraja students work closely with their Counselors and Instructors to prepare for transfer to four year colleges and universities.

Daraja is open to all students:

- Serious about their education
- Interested in developing critical reading and writing skills within African American themes
- Plan to transfer to a 4 year college

Daraja is an affiliate program of Umoja Community Education Foundation. For more information, call Daraja Office **(510) 723-7011 or (510) 723-6747**.

CHILDREN'S CENTER AND LAB SCHOOL

Our Mission: The mission of the Chabot College Children's Center and Lab School is to positively impact the field of Early Childhood by providing and supporting quality early education and care while modeling professionalism for Early Childhood Development lab students, children and families.

Our Philosophy: The Chabot College Children's Center and Lab School provides training to students of Early Childhood Development and serves Southern Alameda County providing quality care for the children of students, faculty and community. We provide a safe environment that meets the developmental needs of children, which nurtures their curiosity and love of learning. We acknowledge that families are the child's first teacher and strive to build relationships with families that lead to a strong partnership which reflects sensitivity to issues such as ethnic, cultural and developmental diversity.

Our Curriculum: The Chabot College Children's Center and Lab School follows a philosophy of Emergent Curriculum implemented at all age levels. Emergent curriculum is child centered and developmentally based, focusing on individual growth and development. We define our curriculum as "everything that happens in the classroom" including the environment, daily routines, all of the relationships between adults and children, as well as specific projects and activities.

Who We Serve: Preschool children between the ages of 3 years and 5 years old. Families who meet eligibility and need requirements for State Preschool and Head Start programs.

Hours of operation Monday–Friday, 8:30 am-3:30 pm.
For further information, call us at (510)-723-6684.

DISABLED STUDENT PROGRAMS AND SERVICES

(This catalog is available in alternate format. Contact the Disabled Student Resource Center, building 2400 or call **(510) 723-6725**)

DISABLED STUDENT RESOURCE CENTER

The Disabled Student Resource Center (DSRC) offers support services for students with disabilities. Any student with a verified physical, communication, psychological, or learning disability is eligible for services. Support services include direct services, programs, and campus and community referrals.

Counselors are available in the Center to assist students with academic and vocational goals. Counselors are also available for personal counseling and community referrals. Direct services include assistance with academic planning, registration, new student orientation, mobility, interpreters, reader services, and alternative testing. Available for student use are braille writers, closed circuit TVs for visually impaired, TDDs and Phonic Ears for hearing impaired, and an extensive High Tech Center with adapted computer equipment.

Students are encouraged to participate in the Able-Disabled Club. The Club sponsors activities for both disabled and non-disabled members at Chabot College.

The DSRC is located in Building 2400. The telephone number is **(510) 723-6725 or TDD (510) 723-7199**.

HIGH-TECH CENTER

Computers with state-of-the-art adaptive hardware and software make up the High-Tech Center. Programs include screen readers, screen magnifiers, voice recognition software for students who cannot use a keyboard, and a program to assist students in reading textbooks by use of a scanner. The Center also provides other programs to help students learn keyboarding and word processing, as well as software assigned by other instructors.

LEARNING SKILLS CENTER

The Learning Skills program is designed to assess students to determine if there is a Learning Disability and to provide instruction to prepare students academically for college courses. The program includes the initial assessment of English 116, English 117–Reading, English 118A and 118B–Reading and Writing; English 119–Computing Skills/Problem Solving/Math; and English 120, 121 which are support classes for academic English and Math courses.



ADAPTIVE PHYSICAL EDUCATION

DSPS offers students an opportunity to design their own individualized physical education program with an instructor. Activities range from weight training and flexibility exercise to swimming and self-defense. Chabot provides a fully equipped Adaptive Physical Education gym, where students can work out on treadmills, pulleys, weights, walkers, and exercise bikes.

Adapted Physical Education courses are available for students at Chabot College with physical disabilities. Students with disabilities seeking additional information should contact the Disabled Student Resource Center, (510) 723-6725.

VOCATIONAL REHABILITATION SERVICES

Students who have a verified physical, communication, psychological, or learning disability that impacts them vocationally may be eligible for services from the State Department of Rehabilitation. These services may include vocational counseling, training, and job placement.

Appointments may be made with a counselor by contacting the State Department of Rehabilitation, 1253 A Street, Hayward, California 94541; telephone number: (510) 881-2404. Additional information may be obtained by contacting counselors in the Disabled Student Resource Center.

EOPS/CARE

EOPS (Extended Opportunity Programs and Services) is a student academic support program for educationally and economically disadvantaged students, funded by the State of California and the Chabot/Las Positas Community College District. The program is designed to provide educational opportunity for students with academic potential who historically would have not attended college.

Specifically, EOPS provides eligible students with academic support services such as personal and career counseling, academic advising, transfer assistance, priority registration, university application fee waivers, financial aid application assistance, EOPS grants, and cultural awareness and enrichment activities.

To be eligible for EOPS sponsorship a student must meet all of the following criteria:

- Must meet California Residency Requirement;
- Must qualify for a Board of Governors Waiver (BOGW A or B);
- Must be enrolled full-time (12 units or more);
- Must not have completed more than 45 degree applicable units or more than six consecutive semesters of college;
- Must be determined to be educationally disadvantaged.

CARE (Cooperative Agencies Resources for Education) is a unique educational program which represents a cooperative effort between Chabot/Las Positas Community College District, the Alameda County Social Services Agency, and community agencies designed to assist single parents achieve their educational goals and work towards achieving financial independence. Support services include: personal and career counseling, academic advising, transfer assistance, CARE grants and meal tickets, peer support, and campus and community referrals.

To be eligible for CARE, students must meet all of the following criteria:

- Must meet the eligibility criteria for EOPS sponsorship (listed above);
- Must be currently receiving Temporary Assistance for Needy Families (TANF);
- Must have one child under the age of 14.

For further information about EOPS and/or CARE, visit the EOPS/CARE/CalWORKs reception desk, second floor kiosk, Building 700, or call **(510) 723-6909**.

FOSTER AND KINSHIP CARE EDUCATION PROGRAM (FKCE)

The FKCE program is offered to serve the training needs of Foster/Resource, Kinship, Resource, Guardianship and Adoptive parents. Chabot and Alameda County Department of Social Services collaborate to provide comprehensive and relevant pre-service and on-going training during the day, evenings and weekends. Classes are offered on campus and in neighborhoods throughout Alameda County. Call **(510) 723-6912** for further information.

FOSTER YOUTH SUCCESS PROGRAM

The Foster Youth Success Program (FYSP) was created to ensure that youth transitioning from the foster care system have the help, resources, and support services they need to succeed at Chabot College.

Eligibility-In order to receive support from the Foster Youth Success Program (FYSP), you must be enrolled or in the process of being enrolled at Chabot. You must also be either a current or former:

1. Foster youth, or
2. Ward of the court, or
3. Kinship care placed youth.

How to Apply:

Chabot College, building 700, 2nd Floor **(510) 723-7682**

HAYWARD PROMISE NEIGHBORHOOD

Hayward Promise Neighborhood (HPN) is a unique and exciting collaboration of local educators, government agencies, businesses, non-profit organizations, and community residents working together to provide a comprehensive system of support throughout the cradle to college to career pipeline.

As a place-based initiative, the HPN targets the specific neighborhood bounded by Jackson Street, Harder Road, and Whitman Street in South Hayward. This neighborhood faces numerous challenges, including poverty crime, low academic achievement, and poor health.

To learn more and see if you are eligible to participate in the HPN programs that are currently in place at Chabot College, visit the Chabot HPN Department on the second floor of Building 700 or contact the HPN Grant Coordinator at **(510) 723-2930**. For more information regarding the HPN Grant Collaboration, visit the HPN website: www.haywardpromise.org.

INTERNATIONAL STUDENT PROGRAM

The International Student Program at Chabot College encourages students from other countries to enroll. The international program includes provision of services to international students who hold student visas by assisting them with meeting the mandates for the Student Success and Support Program (SSSP): admissions, assessment, orientation, counseling, and student follow-up. Events on campus are also coordinated to promote global awareness. Through the college's International Student Club, members plan academic and social events that help international students make friends, learn about other cultures, and explore bay area activities and attractions. Please call **(510) 723-6715** or visit www.chabotcollege.edu/international for more information.

INTERCOLLEGIATE ATHLETICS

Chabot College competes under the regulations of the California Community College Athletic Association and is a member of the Coast Conference for all sports, except for Football, which competes in the Northern California Football Association. Intercollegiate sports offered are Men's Baseball, Men's & Women's Basketball, Men's Football, Men's Golf, Men's & Women's Soccer, Women's Softball, Men's & Women's Tennis, Men's & Women's Track & Field, Women's Volleyball, Men's Wrestling, and Men's & Women's Swimming.

All students meeting eligibility requirements may try out for the appropriate athletic teams. For further information, contact the Division of Health, Kinesiology and Athletics at **(510) 723-7203**.

ATHLETIC ELIGIBILITY

In order to be eligible for competition, student athletes must successfully pass a physical health screening, maintain a cumulative 2.0 grade point average in all units attempted, and be actively enrolled in 12 units or more during their season of competition. Before competing in a sport for a second season, athletes must earn 24 units. Transfer athletes with prior competition at another community college must earn 12 units in residency at Chabot College in order to become eligible for competition. Only 8 units may be earned in the Summer term to satisfy the Transfer Residency requirement.

An athlete may compete for a maximum of two seasons in the same sport. Athletes must adhere to a Code of Conduct which is based upon honor, honesty, fairness, integrity, and loyalty. Athletes who violate the Code of Conduct for student athletes may lose their eligibility status. For further information contact the Division of Health, Kinesiology and Athletics **(510) 723-7203** or the Athletics Counselor at **(510) 723-6930**.

ATHLETIC FACILITIES

A 5,000 seat lighted football field and 400 meter all-weather track stadium is located in the northwest section of the campus. Other athletic facilities include an Olympic swimming pool, baseball and softball stadiums, a 1,500 seat gymnasium, a matted wrestling room, soccer field, tennis facility and strength training facilities. Baseball, Softball, and Soccer fields are all natural grass turf. The Football field in the stadium is all-weather Field Turf®.

LEARNING COMMUNITIES

CIN (CHANGE IT NOW!)

CIN is a rigorous, academic, leadership program designed to empower students interested in social change, who would also like to transfer to four-year colleges and universities. Within their designated courses, students may have the opportunity to self-select various community issues to explore such as: education, health care, budget cuts, environmental issues, poverty, violence and any other issues that they find relevant to their lives. CIN students build strong relationships with each other and develop skills to become leaders in their communities. For more information go to www.chabotcollege.edu/CIN.



FIRST YEAR EXPERIENCE

First Year Experience (FYE) Pathways allow incoming students to maximize their first year of college by taking a customized set of fall and spring courses along with other new students who share similar interests. FYE Pathway students are provided additional support and guidance as they explore their academic and career goals and work toward their degrees. Benefits include:

- Reserved sections of hard-to-get UC/CSU classes needed to transfer
- Counselors to help you stay on track
- Access to faculty in your area of interest
- Career exploration & interactive activities
- Experienced Chabot students to provide answers to questions and personalized support
- Individual and/or group tutoring in Math & English if desired

Students can select from pathways including: Athletics, Business, Change It Now (CIN!), Exploring (Undecided), Health Care and Community Wellness, Public Service/Law, STEM and Visual Arts, with more new pathways to come. Space is limited – visit www.chabotcollege.edu/FYE for more information and to apply.

PACE PROGRAM

The PACE Program, a Degree and Transfer Program for working adults, is a Learning Community designed to help working adults pursue an AA degree and transfer to CSU. PACE is designed to meet the needs of students who work 9am–5pm jobs and so require convenient evening, Saturday, and online courses. The PACE Program fulfills both AA degree requirements at Chabot and CSU General Education transfer requirements.

PACE is a “college within a college” which helps build a sense of community among students and instructors. Students take all their General Education classes together. PACE offers students support, flexibility, and networking opportunities, as well as specialized services from an academic counselor.

PACE offers clear pathways toward certain academic goals, and is an excellent destination for students starting or returning to college, and who wish to pursue careers in Social Science (Psychology, Sociology, etc.), Education, or Business. Most PACE students earn an AA degree and then transfer to complete their Bachelor of Arts degree. Our primary transfer destination is CSU East Bay’s PACE Program, which offers majors in Human Development, Liberal Studies, and a Business Minor/option. Other Bay Area transfer colleges include, among others, Holy Names University and St. Mary’s.

PUENTE PROJECT

Puente is an academic, counseling and mentoring program supporting students to build the skills necessary for success in personal, academic and career goals while at Chabot College. Students in Puente work closely with their counselor, English instructor, and Mentor to prepare for transfer to four-year colleges and universities. Puente is open to all students who are:

- Planning to transfer to a four-year college or university.
- Interested in developing critical reading and writing skills within Latino themes.
- Interested in returning to the community as leaders and mentors.

VETERANS EDUCATIONAL ASSISTANCE

The Veterans Services Office at Chabot College is designed to assist veterans and their dependents in reaching their educational goals. The Veterans Services Office is your liaison to the Department of Veterans Affairs to help you process the necessary educational benefits claims. Once a veteran or veteran’s dependant receives their educational benefits at Chabot College, they are required to comply with all application regulations, policies and procedures at the College.

ELIGIBILITY FOR VETERANS EDUCATIONAL BENEFITS

Chabot College is approved to offer instruction to service persons, reservists, and other eligible persons under Title 38, U.S. Code and Department of Veterans Affairs regulations. Educational benefits eligibility is determined by the appropriate federal or state agency, not by Chabot College. The basic categories of educational assistance programs are:

- The Montgomery G.I. Bill (Chapter 30)
- Vocational Rehabilitation Program (Chapter 31)
- Post 9/11 GI Bill (Chapter 33)
- Post 9/11 GI Bill Transfer of Entitlement (Chapter 33 TOE)
- Dependents’ Educational Assistance (Chapter 35)
- Reservists Montgomery GI Bill (Chapter 1606)
- Reserve Educational Assistance Program (Chapter 1607)

EDUCATIONAL BENEFITS APPLICATION PROCESS

The following procedures must be completed in a timely manner in order for the Veterans Services Office to properly process education benefits for submission to VA. Failure to submit the necessary documents may cause a delay in receiving education benefits.

1. Submit application for admission to Chabot College online via www.chabotcollege.edu.
2. Submit application for VA Educational benefits online via www.gibill.va.gov.
3. Submit DD-214, Notice of Basic Eligibility (NOBE), or military orders to establish priority registration eligibility.
4. Submit all official transcripts from colleges/universities attended and military transcripts to the Office of Admissions and Records.
5. Take Math and English Assessment, if applicable.
6. Complete college orientation: www.chabotcollege.edu/Counseling/Orientation.
7. Choose a Major. Schedule an appointment with a counselor to complete a **Veterans Education Plan**.
8. Register for courses online through CLASS-Web.
9. Complete **Veteran's Enrollment Certification Request** form.

We encourage veterans and veteran dependents attending Chabot College to contact the Veterans Services Office in person, by phone, or by email with questions pertaining to education benefit assistance.

For more information, contact the Chabot College Veterans Services Office, (510) 723-6910 or email cc-veterans@chabotcollege.edu, located Building 2300, 2nd Floor, room 2353.

COURSE RESTRICTION FOR CERTIFICATION

According to VA regulations, only courses that satisfy requirements outlined by a veterans education plan can be certified and reported for VA purposes. Only courses that meet requirements (including prerequisites) for the major and degree objective as indicated on the veterans education plan will be certified for payment. Every student receiving veterans education benefits at Chabot College will be required to have a veterans education plan for current program of study.



EDUCATION PLANNING

Since many universities and colleges do not accept credit that other schools have granted for military service, students who desire to transfer military credit should consult the policy of the university or college to which they intend to transfer.

ENROLLMENT CERTIFICATION

It is the student's responsibility to request enrollment certification every term. Certification is not an automatic process. All enrollment changes such as Add/Drop or Withdraws, etc. must be reported to the Chabot Veterans Services Office immediately. The Chabot Veterans Office will review enrollment to ensure it meets the requirements set forth by the VA. However, it is the student's responsibility to report any changes in enrollment. All veterans and dependents are required to submit a Veteran Enrollment Certification Request form to the Chabot Veterans Services Office each term to receive VA education benefits.

PRIORITY REGISTRATION

In order to be assigned priority registration, veterans, reservists, and active duty members must complete college orientation, Math/English assessment, student education plan, and provide a copy of their DD-214, NOBE or military orders to the Veterans Services.

DD-214 CREDIT

Qualified veterans will receive 3 units of elective credit towards the Associate Degree. Contact the Counseling Division for more information.

MILITARY WITHDRAWAL

If a student is called to active military duty at any time during the term, he or she is entitled to military withdrawal (MW). A student who must withdraw for military purpose shall be refunded 100% fees paid, regardless of the date of withdrawal. In this case, requests for refunds made after the end of the semester will be honored. Service men and women must provide copies of their military orders and a statement requesting military withdrawal to the Director of Admissions and Record for approval.

MINIMUM GPA REQUIREMENTS

The Veterans Administration (VA) requires students on educational benefits maintain satisfactory progress. If the student on VA benefits falls below 2.0 GPA over two semesters, this is reported to the VA as unsatisfactory progress and benefits are suspended. To reinstate your benefits, you must complete one semester with a 2.0 or higher GPA. Chabot College is required by law to have and to enforce standards of progress and conduct in order for their programs to be approved for VA benefits.



FIRST YEAR EXPERIENCE PROGRAM

The First Year Experience (FYE) Program focuses on student success through different “pathways” based upon your interests and academic goals. Students will work with like-minded peers towards their degree while exploring major options with professors knowledgeable in their area of interest.

1

Select a pathway based upon your academic interests, and then we give you a class schedule each semester for your first year at Chabot College.

2

You are provided core courses that are typically difficult to get into as a new student.

3

You are provided with support from various staff members across the Chabot College campus.



INTERESTED IN A PATHWAY?

For more information and to submit your FYE application, visit our website: www.chabotcollege.edu/FYE.



STEM

The STEM pathway is for students interested in Science, Technology, Pre-Med, Pre-Dentistry, Engineering, Mathematics and other related majors.



BUSINESS

The Business pathway allows students to explore their interests in various business majors ranging from Health Care, Retail and Small Business Management to Accounting, Entrepreneurship, Human Resources, and Small Business Ownership.



PUBLIC SERVICE/LAW

The Public Service/ Law pathway allows students to explore their interest in Administration of Justice, Law School, or Public Service.



HEALTH CARE & COMMUNITY WELLNESS

The Health Care & Community Wellness pathway is a perfect fit for those interested in Nursing, Dental Hygiene, Health Science and Medical Technology related majors. This pathway offers reserved seating in the core Biology and Chemistry classes needed to succeed as a Health Care Professional.



VISUAL ARTS

This is a great pathway for students interested in Photography, Painting, Drawing/Illustration, Ceramics, Sculpture, Digital Media and Graphic Design.



EXPLORE

The “Explore” pathway assists students with undecided majors to work towards their degree while exploring different career and major options. Faculty will provide the tools to assist in the decision making process.

Don't wait, space is limited so apply early!



PACE Program for Working Adults



- Designed for people who work 9am-5pm!
- Includes evening, online, and Saturday morning classes!
- Creates a Learning Community of adult learners!
- Leads to an A.A. Degree and CSU Transfer!
- Earn an A.A. in Behavioral Science or Liberal Arts!
- Seamless transfer: CSU East Bay's PACE Program offers Bachelor's degrees in Social Sciences, Liberal Studies, Recreation/Tourism!
- Can be modified for Business Majors, Early Childhood Development, Nursing or other majors! (Additional classes required.)
- Additional transfer options available, including St. Mary's College B.A. in "Leadership & Organizational Studies"!

For more information visit:
www.chabotcollege.edu/PACE



TRAINING AND DEVELOPMENT SOLUTIONS

Workforce preparation and economic development experts agree: the continued vitality of the East Bay economy depends largely on the ability of its workforce preparation systems to respond to the region's growing employers. Training and Development Solutions, the contract training division of the Chabot-Las Positas Community College District, is an integral part of our region's workforce preparation system. The part of the system that will work directly with you on the recruitment, development and retention of your most valuable asset: your human capital.

With access to the highest quality resources necessary, TDS is uniquely positioned to assess the performance of your operations, identify opportunities for performance improvement, and deliver both training and non-training solutions. TDS was specifically designed to be responsive to employers, aid them in reaching defined business and workforce performance goals through the delivery of flexible, customized, industry-focused, performance-based business and training solutions. **Contact TDS directly at (925) 485-5239.**

COMMUNITY EDUCATION AND SERVICES

The Community Education Program supplements the Chabot College regular instructional program by offering community members short-term, inexpensive courses in topics of general interest. For the most part, Community Education courses are not part of the regular Chabot College curriculum and as such do not generate a Chabot College Transcript. Fees are modest and cover only the direct cost of each course. Enrollment is easy—there is no college application form or transcript of record required. Classes start continuously during the term. Some courses meet on campus and others are conducted over the Internet. All classes are taught by certified college faculty or by community members who are experts in their field. Courses are in a variety of areas including computer instruction, financial planning and investing, fitness and health, and recreation. The Community Education Office is located in Building 700 South, Room 727K. Office hours are: M-F, 9 am-5:30 pm. The phone number is **(510) 723-6665** or **723-7531**. E-mail: **chabotcomed@chabotcollege.edu**. Please visit our website at **www.chabotcollege.edu/comed** for a schedule of classes or contact our office for more information.

SCHOLASTIC STANDARDS OF CHABOT COLLEGE

The academic standards policy of Chabot College is established to assist students in making appropriate educational plans. There are two indices to academic standards: Academic Status and Academic Progress. Academic Progress is an evaluation of the student's successful completion of units. The College will advise students of their grade point average and progress in order that they may make sound self-appraisal of their college work.

GRADES

Grades are a means of communicating student achievement within courses of instruction. The suggested meaning of college grades is as follows:

- "A" — The student has been consistently superior in all phases of the course and has shown initiative, imagination, and self-direction well beyond that required by the instructor.
- "B" — The student has satisfied the course objectives with fairly consistent performance typically above average and demonstrates considerable mastery of the course materials.
- "C" — The student has completed most of the course objectives and requirements in a satisfactory manner as to quantity and quality of performance, including attendance and participation.
- "D" — The student has barely met the course objectives and success in advanced work is doubtful.
- "F" — The student has failed to accomplish the minimum requirements of the course and has not met the course objectives to any significant degree.
- "P" — The student has completed the course with "C" or better work.
- "NP" — The student has completed the course but without credit. The student has either not taken the examination or has fallen below the grade of "C."
- "I"* — The student has not completed the course, has not taken the final examination, and has made an agreement with the instructor to complete the requirements.*

*"I" (incomplete) grades represent an instructor-student agreement that the student may complete the course work by the end of the following term or semester and receive an appropriate letter grade. If the student does not complete the course work before this deadline, the right of the student to make up the work is forfeited. The "I" will be replaced with the alternate letter grade assigned by the instructor at the time the incomplete was assigned. Consequently the revised GPA will be calculated.

ACADEMIC GRADE POINT AVERAGE

The Academic Grade Point Average is an index of the quality of a student's work.

Grades earned in non-degree-applicable courses (numbered 100–299) will not be used when calculating a student's degree applicable grade point average. No courses below the English 1A requirement are degree applicable.

To enable the calculation of grade point average, eligibility for honors and recognition, and other scholastic status, letter grades are converted to numerical form using the following grade point equivalents:

Grade	Meaning	Grade Value
A	Excellent	4 grade points per unit
B	Above Average	3 grade points per unit
C	Average	2 grade points per unit
D	Barely Passing	1 grade point per unit
F	Failure	0 grade points—units attempted with no units earned. May negatively affect Progress.
P	Pass	0 grade points—units earned with no units attempted.
NP	No Pass	0 grade points—no units earned and no units attempted. May negatively affect Progress.
I	Incomplete	0 grade points—no units earned and no units attempted. May negatively affect Progress.

The grade point average (GPA) is calculated by dividing total grade points by total units attempted:

$$\text{GPA} = \frac{\text{Total Grade Points}}{\text{Total Units Attempted}}$$

Example:

History 1	3 units x 3 grade points (B) = 9 grade points
Math I	5 units x 2 grade points (C) = 10 grade points
P.E. 1	½ unit x 4 grade points (A) = 2 grade points

TOTAL: 8½ units 21 Total Grade Points

$$\text{GPA} = \frac{21}{8.5} = 2.47 \text{ or C}$$

SCHOLASTIC HONORS

Students who graduate with "Highest Honors" (GPA of 3.50 or better) and those who graduate with "Honors" (GPA of 3.25 or better) are recognized at graduation.

Students who complete at least 6 units of work each semester with grades of A, B, C, D, or F yielding a semester grade point average of 3.5 or better are recognized for academic distinction by placement on the Academic Honors List and by a notation on the semester grade report and transcript.

Academic achievement is further recognized by both the Sigma Rho Chapter (Chabot College) of Alpha Gamma Sigma, the California Community College Honor Scholarship Society. Individual programs and divisions may also recognize their graduates at commencement or special ceremonies. Membership eligibility and other information is available from the Office of Student Life in Building 2300, Chabot College.

ACADEMIC PROBATION AND DISMISSAL

A student who has attempted at least 12 semester units of college courses (not including W's) and has a cumulative grade point average of less than 2.0 will be placed on Academic Probation level I.

A student on Academic Probation I who does not raise his/her cumulative grade point average to a 2.0 or higher in the following semester will be placed on Academic Probation level II. Please note that Veterans lose their certification for Veterans benefits after two semesters of academic probation. Please refer to the college's Office of Veterans Affairs Academic Standards of Progress for further information.

A student on Academic Probation II who does not raise his/her cumulative grade point average to a 2.0 or higher in the following semester of attendance will be dismissed. The first time a student is dismissed he or she may apply for readmission after one semester (summer session not included) of non-attendance. In the case of a second dismissal, the student may apply for readmission after 5 years of non-attendance. Summer session does not count as a semester in determining academic status.

REMOVAL OF POOR ACADEMIC STATUS

Once a student on academic probation raises his or her overall (cumulative) grade point average to a 2.0 (C), or higher, he/she will be taken off of Academic Probation status and will become a "student in Good Standing."

PROGRESS PROBATION AND DISMISSAL

Progress Probation is determined by the percentage of cumulative units with grades of W, NP, or I (Poor Progress Grades). A student who has attempted 12 semester units of college course work will be placed on Progress Probation level I if 50% or more of the cumulative units attempted resulted in Poor Progress grades.

A student on Progress Probation I who does not reduce his/her percentage of cumulative poor progress units to below 50% will be placed on Progress Probation II.



If a student on Progress Probation II continues to have 50% or more of his/her cumulative units made up of Poor Progress grades in the following semester, he/she will be dismissed. The first time a student is dismissed he or she may apply for readmission after one semester (summer session not included) of non-attendance. In the case of a second dismissal, the student may apply for readmission after 5 years of non-attendance. Summer session does not count as a semester in determining progress status.

REMOVAL OF POOR PROGRESS STATUS

In order to reverse poor progress status and become a student in good standing a student must reduce the cumulative units of W, NP or I grades to less than 50% of his/her total units attempted. Summer session does not count as a semester in determining progress status.

APPEAL PROCESS

Under extenuating circumstances beyond the student's control or ability to foresee, exceptions to these policies may be granted by the Director of Admissions and Records.

Students should see a counselor to discuss their progress or academic status and for details associated with the academic standards policy.

GRADE CHANGE DEADLINE PERIOD

Awarding grades to students is the responsibility of the instructor of the course in which the student is registered. The determination of the student's grade by the instructor shall be final in the absence of mistake, fraud, bad faith, or incompetence.

When a student believes that an error has been made in the assignment of a grade, he or she should discuss the problem with the instructor. To correct an erroneous grade, a special "Request for Grade Change" form must be completed by the instructor and submitted to the division Dean who will forward the form to the Vice President of Academic Services. Final authorization to change the grade shall be granted by the President of the College or designee.

Requests for a grade change must be made during the semester immediately following the semester or session for which the grade was assigned. Responsibility for monitoring personal academic records rests with the student.

Grade changes will not be made after the established deadline except in cases with extenuating circumstances. These are acute medical, family or other personal problems which rendered the student unable to meet the deadline. Requests for a grade change under this exception shall be made to the Vice President of Academic Services or designee who may, upon verification of the circumstance(s), authorize the initiation of a grade change. The student must present evidence of the extenuating circumstance(s).

PASS/NO PASS GRADES*

(Unit Limitations May Exist at Transfer Institutions)

In accordance with the Education Code and Title 5, §55022, Chabot College has established a grading policy which adds the "P" (pass) and "NP" (no pass) grades to the standard letter grades (A,B,C,D,F) used in colleges and universities. Courses in which a "P" (pass) grade is earned will apply toward the 60 units required for graduation, but will not affect the student's grade point average. A maximum of 12 units of "P" (pass) may be attempted and applied toward the Associate in Arts or Associate in Science Degree. (Additional units may be applied provided the student secures prior approval of the division Dean of Counseling. A course in which a "NP" (no pass) grade is earned will not apply toward graduation and will not affect the student's grade point average. An excess number of "NP" (no pass) grades will affect the student's academic progress ratio, resulting in a low figure.

Offering courses for pass/no pass grades provides the student with the opportunity to explore areas outside his/her current interest field without undue concern for his or her grade point average. This policy allows the student to take coursework outside his or her major without the fear of a substandard grade, namely a "D" or "F." Students are expected to complete the course and comply with College attendance requirements and other expectancies of the course. Should they fail to do so, their enrollment in the class may be terminated and the work may be graded on the basis of a standard letter grade.

Chabot College offers:

1. Some courses solely for a pass/no pass (P or NP) grade.
2. Some courses solely for a standard letter grade.
3. Some courses in which the student may choose to complete the course for either a pass/no pass grade OR for a standard letter grade.

On or before the last day of the fifth week of the semester, the student shall inform the Admissions and Records Office, by petition, of his or her intention to complete a course for a pass/no pass grade and the instructor shall report to the Director of Admissions and Records a final grade of "P" (pass) or "NP" (no pass) for students who so petition. The student's decision to opt for pass/no pass grade may not be reversed by either the student or the instructor at a later date.

The "P" (pass) grade will be given to indicate completion of a course with "C" or better work.

A student may repeat a course in which a grade of "D," "F" or "NP" (no pass) is earned.

*Formerly "Credit/No Credit"

ADMINISTRATIVE SYMBOLS “IP,” “RD,” AND “I”

Administrative Symbol “IP”—Mastery Learning Courses

The administrative symbol “IP” is established to indicate coursework “in progress.” Its use is limited to mastery learning courses. It may be used only for a student who is making satisfactory progress toward the completion of a course but who has not completed all of the modules by the end of the semester or session.

The symbol “IP” is not a grade; therefore, it has no value in calculating unit credit or grade point average.

Only one symbol “IP” may be received by a student for any mastery learning module or course. The required coursework to remove the “IP” must be completed by the end of the term or session following the date the “IP” was granted. If a student is assigned an “IP” at the end of an attendance period and does not re-enroll in and complete that course during the subsequent attendance period, the appropriate faculty member will assign an evaluate symbol (grade) to be recorded on the student’s permanent record.

Administrative Symbol “RD”—Report Delayed

The administrative symbol “RD” may be assigned only by the Director of Admissions and Records. It is to be used when there is a delay in reporting a grade due to extenuating circumstances. It is a temporary notation to be replaced by a permanent grade/symbol, as soon as possible. “RD” shall not be used in calculating grade point averages.

Administrative Symbol “I”—Incomplete

Incomplete academic work for unforeseeable emergency and justifiable reasons at the end of the term may result an “I” symbol being entered by the instructor on the student’s permanent record. A “grade change card” with the following documentation shall be maintained by the Director of Admissions and Records.

1. The condition(s) stated by the instructor for removal of the “I.”
2. The letter grade to be assigned if the work has not been completed within the designated time limit.
3. The letter grade assigned when the stipulated work has been completed.
4. The signature of the student.

The “I” shall be made up by the end of the term or semester following the date it was granted. The student may petition to extend this deadline date because of extenuating circumstances, but this will require the approval of the Vice President of Student Services, or designee, and the instructor of record.

The letter grade to be assigned if work has not been completed within the designated time shall be changed following grade change procedure.

The “I” symbol shall not be used in calculating units attempted nor for grade points.

CREDIT BY EXAMINATION

Chabot College supports the general proposition that the full value of classroom learning experiences cannot be measured by any examination. Students who have achieved elsewhere an equivalent knowledge, understanding and experience to that required by regular college courses may receive units of credit based on successful completion of a comprehensive and searching course examination administered by the College. Standardized examination may be used in specified “licensure” programs and to determine the appropriate placement of students in a field of study. The student receiving credit must be registered at the College, in good academic standing and have paid all applicable fees and/or tuition. The courses for which credit is allowed must be listed in the Chabot College Catalog. The amount of credit to be granted cannot be greater than that listed for the course in the catalog. Credit by examination is offered under the provisions of the California Administrative Code, Title 5, §55050.

Comprehensive Examination Administered by the College

1. Eligibility

Any student applying for credit by examination will be expected to have had extensive experiences which have prepared the person in the subject matter and for which the individual can provide acceptable evidence of those experiences at the time of application.

2. Application and Administration

A petition for completing a course through credit by examination must be approved by the appropriate instructor, division dean, and the Vice President of Academic Services. Applicable fees and/or tuition must be paid at the Admissions and Records Office. Arrangements for completing the examination and the actual administration will be made between the student and the instructor after the petition is approved. The examination itself may take any appropriate form such as written, oral, demonstration or a combination of methods.

3. Awarding of Credit

Upon completion of the examination, the administering instructor will verify the course and number of units to be received and will assign an appropriate grade. Where the student does not achieve a grade of “C” or better, he or she will be expected to complete the course in the usual manner.



4. The Director of Admissions and Records, or designee, will annotate the student's transcript to indicate that the credit was granted for the course in question by examination. This credit by examination coursework may not be counted as part of the 12-unit residency requirement necessary for graduation from Chabot College.

5. Limitations

Credit cannot be given for a course which is comparable to a course already credited on the student's secondary school transcript although an examination in such a course may be given to determine the level of achievement and the appropriate placement of the student in the field of study. The amount of credit which may be earned and counted toward graduation at Chabot College is limited to 10 semester units. Under certain circumstances, advanced placement credit may be awarded to a diploma graduate in nursing which may include up to 30 semester units (one year) of academic credit.

ACADEMIC RENEWAL

Academic Renewal, in accordance with Title 5, §55046, is a process that permits the alleviation of substandard (D's, F's) academic coursework not reflective of the student's current scholastic ability. The grades alleviated by this process will be disregarded in the computation of the student's grade point average. Only courses taken at the Chabot-Las Positas Community College District will apply. Work completed at other institutions may be considered for graduation eligibility only. For students to be eligible for academic renewal they must be currently enrolled at Chabot and/or Las Positas College, and a period of at least two (2) years must have elapsed since completion of the coursework to be disregarded. The student may petition the Director of Admissions and Records at Chabot College or the Dean of Enrollment Services at Las Positas College for academic renewal upon completion of the following:

- a minimum of 12 units taken consecutively at Chabot and/ or Las Positas with a grade point average of 2.5 or better,
- or
- a minimum of 20 units taken consecutively at Chabot and/ or Las Positas with a minimum grade point average of 2.0.

The coursework to be disregarded cannot include courses previously used to meet Associate degree or Certificate requirements or to establish eligibility to transfer.

Upon approval, the student's permanent record shall be annotated in such a manner that all courses disregarded shall remain legible on the transcript, indicating a true and accurate history of the student's record.

Students may petition for academic renewal only once. Once the academic renewal process has been completed, it cannot be reversed. A maximum of 24 units of work may be renewed. Academic renewal at Chabot and Las Positas College does not guarantee that other colleges will accept this action. Acceptance of academic renewal is at the discretion of the receiving institution.

PROGRAM REQUIREMENT WAIVER AND/OR SUBSTITUTIONS

Students who have coursework from other institutions or knowledge gained elsewhere which is equivalent to Chabot College course(s) may request course substitutions for degree or certificate requirements. To petition for a course substitution or waiver, see a counselor for guidance as to appropriate substitutions/waivers, approval processes, and request forms.

EXAMINATIONS

Students are expected to take mid-term and final examinations in each course for which they are enrolled. Additional examinations may be scheduled by instructors at their discretion. Unless students have made prior arrangements with the instructor, the instructor is under no obligation to help a student make up an examination he or she has missed.

Instructors may notify students of unsatisfactory work at any time during the semester. Such notices are given to the student in person or mailed to the student at his/her home address. Excessive absences, academic deficiency, and failure to submit assignments constitute reasons for notices of unsatisfactory work.

A student who receives such notices, or any student who experiences difficulty with academic achievement, is encouraged to consult with his/her instructor and counselor for assistance in planning a student educational plan.

CAPABILITY TO PROFIT FROM INSTRUCTION

Under the provisions of the California State Education Code and Governing Board Policy of this District, a student's capability to profit from the instruction offered shall be determined by evidence of the individual's:

1. Capability to meet the demands of college instruction at Chabot College;
2. Capability to master and proceed beyond the minimum basic skill levels required for success in college education;
3. Capability to show substantial progress in cognitive and affective learning in college courses;
4. Capability to show progress toward independent learning.

By this rule, the College shall determine whether a person is or is not capable of profiting from college instruction. The determination of capability to profit is a matter of composite professional judgment based upon available evidence.

Additional information may be obtained from the Office of the Vice President of Student Services, Chabot College.

IMPOUNDING STUDENT RECORDS

Whenever a student is delinquent through failure to comply with College rules and regulations, to pay debts, or to return property owned by the College, that student's records may be impounded. A student whose records are impounded shall not be allowed (1) to register for subsequent terms of instruction; (2) to receive transcripts of work completed; or (3) to receive other services of the College which relate to his/her records. When the student has cleared his/her obligation with the College, the impoundment of his/her records shall be removed.

ATTENDANCE REQUIREMENTS

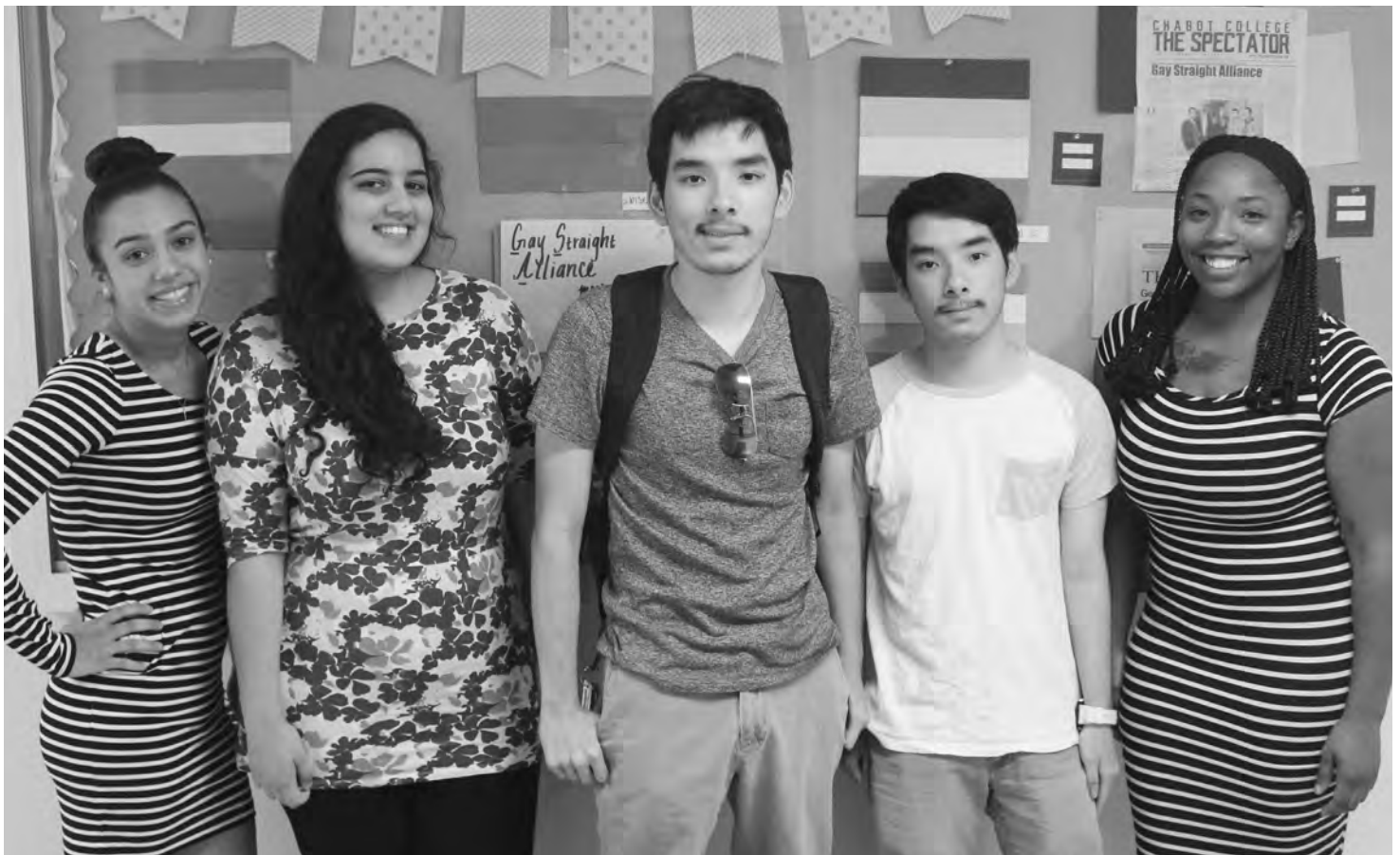
It is assumed that each student will consider attendance an absolute requirement. It is the student's responsibility to attend every class the scheduled length of time. Excessive absences, tardiness, and leaving class early may be taken into consideration by instructors in assigning grades or dropping the student from the course.

REPORTING ABSENCE

Absences should be cleared directly with instructors. (Note: The size of the College prevents telephone messages being given to instructors.)

EXCESSIVE ABSENCE

A student absent for a total of four consecutive or six cumulative instructional hours and/or two consecutive weeks of instruction may be dropped from that class by the instructor. This action constitutes an official termination of class enrollment and will be recorded.





USE OF TAPE RECORDERS OR OTHER RECORDING DEVICES

Students are not permitted to make recordings in class or in any campus meetings without the express approval of the instructors involved. Exceptions shall be made for physically limited students who have a permit issued by the Disabled Student Resource Center. The permit is evidence of the physical need of the student to use a tape recorder and of the student's agreement to not use or allow to be used the content of the tape for any purpose(s) other than course related study.

AMERICANS WITH DISABILITIES ACT (ADA)

In accordance with Section 504 of the Rehabilitation Act of 1973 and the 1990 Americans with Disabilities Act (ADA) the Chabot Las Positas Community College District prohibits discrimination against students and employees with physical or mental disabilities that substantially limit activities such as working, walking, talking, seeing, hearing, or caring for oneself. People who have a record of such an impairment and those regarded as having an impairment are also protected.

The college ensures that students with disabilities will not be unlawfully subjected to discrimination or excluded from participating in or benefiting from programs, services or activities. Students are accorded due process as outlined in specific complaint procedures developed by the College.

Students with disabilities at the College have the right to: access courses, programs, services, activities and facilities offered through the College an equal opportunity to learn and receive reasonable accommodations, and/or auxiliary aids and services; be assured that all information regarding their disability is kept confidential; disclose their disability directly to faculty.

Students with disabilities at the College have the responsibility to:

- Meet all fundamental course requirements and qualifications and maintain essential institutional standards for courses, programs, services, employment, activities and facilities;
- Identify themselves to the Disabled Student Resource Center (DSRC) as an individual with a disability when an accommodation is needed and demonstrate and/or document (from an appropriate professional) how the disability limits their participation in courses, programs, services, employment, activities and facilities;
- Actively work in partnership with faculty and DSRC staff to develop reasonable accommodations appropriate to their disability; and
- Comply with the Academic Accommodations Procedures for requesting and utilizing DSRC services.

For information regarding filing complaints based upon discrimination on the basis of physical or mental disability, students should contact the college ADA/504 Coordinator, Vice President of Student Services, in Building 700, Room 708.

The posting, distributing or disseminating of printed materials that advertise, publicize or otherwise provide notice of activities, events or information are subject to the following regulations.

All printed materials must indicate the name of the sponsoring individual, department, or registered club or organization.

All printed materials written in a language other than English must be accompanied by an English translation.

Any printed material deemed to be slanderous, libelous, grossly obscene, offensive or pornographic will not be accepted for posting.

The Office of Student Life supervises and authorizes all campus publicity including posting of flyers and banners and distributing hand-outs or products.

Except as specified in these guidelines, no printed material may be placed on or against, attached to, or written on any structure or natural feature of the campus, such as, but not limited to doors, windows, building walls, walkways, roads, posts, fences, waste receptacles, trees, plants or shelters.

No printed materials may be left unattended on campus grounds or inside campus buildings without prior permission of the Office of Student Life or the Dean responsible for the specific building.

Publicity may not be affixed or inserted into campus lawns or grounds.

Publicity may not be affixed to or left on cars in Chabot College parking lots.

The use of the Chabot College name or logo is limited to authorized or official publicity. It may only be used by a registered student club with approval of the Director of Student Life.

POSTING AREAS

At Chabot College, the Office of Student Life is responsible for posting of all materials on campus, in designated locations. This service is offered at no charge to all college departments, clubs and organizations, and for a minimal fee to non-affiliated and off-campus organizations. Academic and administrative department bulletin boards (usually located in specific department buildings) are maintained by each department. Permission for posting at these locations must be obtained individually from each area Dean.



Flyers are posted on Tuesdays and Fridays during the regular school year, for up to two weeks. Due to space limitations, flyers must not exceed 8½"x14" in size. Exceptions to this must be pre-approved and are subject to space availability. Posting for summer and holidays may vary. All items to be posted must be received by 5 p.m. on the day prior to the posting day desired, at the Office of Student Life, Building 2300, Room 2355. Approved posters will be stamped and posted. Any displayed posting not in the designated areas or not displaying the approved posting stamp, will be removed immediately. Repeat offenders found to be posting illegally will lose future rights to have materials posted at Chabot College. There is a limit of 25 flyers to be posted for any one event or program.

Special Posting for Housing Availability, Employment Opportunities, Community Service/Volunteer Opportunities and Car Pooling/Transportation can be done at no cost through the Office of Student Life. Enclosed glass cases for each area are updated regularly. Preprinted forms for each specific area can be completed in Room 2355.

DECLARATION OF NON-DISCRIMINATION

Chabot College desires to maintain an academic and work environment which protects the dignity and promotes the mutual respect of all employees and students. Sexual harassment of employees or students will not be condoned. In general, deliberate verbal comments, gestures or physical contact of a sexual nature that are unsolicited and unwelcomed will be considered harassment (Title VII of the Civil Rights Act of 1964). Inquiries concerning the application of these policies to programs and activities of Chabot College may be referred to the following officers assigned the administrative responsibility of reviewing such matters:

Employee Concerns: Wyman Fong
Director of Human Resources
(925) 485-5235

Student Discrimination Concerns:
ValJeán Dale, Dean of Counseling
Building 700, Room 755
(510) 723-6717

Inquiries may also be addressed to: San Francisco Office of Civil Rights, U.S. Department of Education, 50 Beale Street, Suite 7200, San Francisco, CA 94105, (415) 486-5555.

DECLARACIÓN DE NO DISCRIMINACIÓN

Chabot y Las Positas colleges, de acuerdo con las leyes civiles, declara que no discrimina hacia ninguna persona a base de su raza, color, nacionalidad, ascendencia, religión, creencia, sexo, edad o incapacidad, en sus programas y políticas de empleo y educación. El conocimiento limitado del idioma no limita acceso a programas y servicios ocupacionales. Cualquier pregunta sobre la aplicación de esta declaración puede dirigirse a:

Assuntos de Empleo: Wyman Fong
Director of Human Resources
(925) 485-5235

Asuntos de Estudiantes/Asuntos de Discriminación:

ValJeán Dale, Dean of Counseling
Building 700, Room 755
(510) 723-6717

Las investigaciones se pueden también tratar a:

San Francisco Office of Civil Rights, U.S. Department of Education, 50 Beale Street, Suite 7200, San Francisco, CA 94105, (415) 486-5555.

TITLE IX NOTICE OF NON-DISCRIMINATION FOR

STUDENTS

Chabot College does not discriminate on the basis of sex, gender, or sexual orientation in its education programs or activities. Title IX of the Education Amendments of 1972, and certain other federal and state laws, prohibit discrimination on the basis of sex in all education programs and activities operated by the college (both on and off campus). Title IX protects all people regardless of their gender or gender identity from sex discrimination, which includes sexual harassment and violence. Sexual Discrimination means an adverse act of sexual discrimination (including sexual harassment and sexual violence) that is perpetrated against an individual on a basis prohibited by Title IX of the Education Amendments of 1972, 20 U.S.C. §1681 et seq., and its implementing regulations, 34 C.F.R. Part 106 (Title IX); California Education Code §66250 et seq., and/ or California Government Code §11135.



DISTRICT ADMINISTRATIVE PROCEDURE AP 5500 STANDARDS OF STUDENT CONDUCT

References:

Education Code Sections 66300 and 66301;
Accreditation Standard II.A.7.b

Definitions: The following conduct shall constitute good cause for discipline, including but not limited to the removal, suspension or expulsion of a student.

- Causing, attempting to cause, or threatening to cause physical injury to another person.
- Possession, sale or otherwise furnishing any firearm, knife, explosive or other dangerous object, including but not limited to any facsimile firearm, knife or explosive, unless, in the case of possession of any object of this type, the student has obtained written permission to possess the item from a District employee and the campus safety administrator/supervisor.
- Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of, any controlled substance listed in California Health and Safety Code Sections 11053 et seq., an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code Section 11014.5.
- Committing or attempting to commit robbery or extortion.
- Causing or attempting to cause damage to District property or to private property on campus.
- Stealing or attempting to steal District property or private property on campus, or knowingly receiving stolen District property or private property on campus.
- Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the college or the District.
- Committing sexual harassment as defined by law or by District policies and procedures.
- Engaging in harassing or discriminatory behavior based on disability, gender, gender identity, gender expression, nationality, race or ethnicity, religion, sexual orientation, or any other status protected by law.
- Engaging in intimidating conduct or bullying against another student through words or actions, including direct physical contact; verbal assaults, such as teasing or name-calling; social isolation or manipulation; and cyberbullying.
- Willful misconduct that results in injury or death to a student or to District personnel or which results in cutting, defacing, or other injury to any real or personal property owned by the District or on campus.
- Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, college personnel.
- Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty as defined by college faculty.
- Dishonesty; forgery; alteration or misuse of District documents, records or identification; or knowingly furnishing false information to the District.
- Unauthorized entry upon or use of District facilities.
- Lewd, indecent or obscene conduct or expression on District-owned or controlled property, or at District sponsored or supervised functions.
- Engaging in expression which is obscene, libelous or slanderous, or which so incites students as to create a clear and present danger of the commission of unlawful acts on District premises, or the violation of lawful District regulations, or the substantial disruption of the orderly operation of the District.
- Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.
- Unauthorized preparation, giving, selling, transfer, distribution, or publication, for any commercial purpose, of any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including but not limited to handwritten or typewritten class notes, except as permitted by any district policy or administrative procedure.

Students who engage in any of the above are subject to the procedures outlined in AP 5520 titled Student Discipline Procedures.

All complaints of alleged misconduct made against a student by any person should be submitted to the Vice President of Student Services or designee, with a copy to the area administrator. These complaints must be made in writing, specifying the time, place, and nature of the alleged misconduct. Identifying information for the complainant is also required. If the Dean or the Vice President of Student Services determines the complaint to be capricious, the complaint may be dismissed.



The Vice President of Student Services or designee (VPSS/Designee) shall conduct an investigation of the reported incident as is appropriate. The VPSS/Designee will confer with the accused student for the purposes of advising the student of the report and of the student's rights under college rules and regulations. The VPSS/Designee may also procure information relating to the report from the accused student and other persons, including an assessment of damage to property or injury to persons. Such investigations shall be treated as confidential and shall not be placed in the student's file unless a charge is upheld and a decision is rendered by the VPSS/Designee against the student.

Following investigation, the VPSS/Designee will render a decision in writing to the student as well as the person filing the complaint against the student (if appropriate) within five (5) working days. The VPSS/Designee may find that the complaint lacks merit; or deliver a written statement to the accused student formally charging that student with misconduct.

This statement will specify one of the following actions that will be taken in the case:

1. Place on record a verbal or written reprimand.
2. Place the student on probation, temporary exclusion or suspension.
3. Recommend expulsion to the District Board of Trustees via the President of the College and the District Chancellor.
4. Assign the case for further review to a formal Hearing Committee.

The student may do one of the following:

1. Accept the VPSS/Designee decision.
2. Notify the Vice President of Student Services or designee in writing within two (2) working days to initiate a formal hearing.

Policy Definitions

The term (District) means Chabot-Las Positas Community College District.

1. The term (College) means Chabot College or Las Positas College.
2. The term "student" includes all persons taking courses at the College, both full time and part-time studies. Persons who are not officially enrolled for a particular term but who have a continuing relationship with the (College) are considered "students".
3. The term "faculty member" means any persons hired by the (College/District) to conduct classroom activities.
4. The term "manager" includes any person employed by the (College/District) performing assigned administrative, professional, or staff responsibilities.

5. The term "agent of the college" includes any person who is a student, faculty member, (College/District) official or any other person employed by the (College).
6. The term "(College) premises" includes all land, buildings, facilities, and other property in the possession of or owned, used or controlled by the (College) including adjacent streets and sidewalks.
7. The term "college community" includes any person who is a student, faculty member, staff, (College/District) official or any other person employed by the (College).
8. The term "organization" means any number of persons who have complied with the formal requirements for (College) enrollment/registration.
9. The term "behavior" includes conduct and expression.
10. The term "hazing" means any method of initiation into a student organization or any pastime or amusement engaged in with regard to such an organization or causes, or is likely to cause bodily danger, or physical or emotional harm, to any member of the college community.
11. The term "deadly weapons" includes any instrument or weapon of the kind commonly known as a blackjack, sling shot, billy club, sand club, sandbag, metal knuckles, any dirk, dagger, switchblade knife, or any knife having a blade longer than five inches, pistol, revolver, or any other firearm, any razor with an unguarded blade, any metal pipe or bar used or intended to be used as a club.
12. The term "shall" is used in the imperative sense.
13. The term "may" is used in the permissive sense.
14. The term "Policy" is defined as the written regulations of the (College/District) as found in, but not limited to, the Student Code, and College Catalog.
15. The term "cheating" includes, but is not limited to: fraud deceit, or dishonesty in an academic assignment or using or attempting to use materials, or assisting others in using materials which are prohibited or inappropriate in the context of the academic assignment in questions, such as: copying or attempting to copy from others during an exam or on an assignment, communicating answers with another person during an exam, preprogramming a calculator to contain answers or other unauthorized information for exams, using unauthorized materials, prepared answers, written notes, or concealed information during an exam, or allowing others to do an assignment or portion of an assignment for you, including the use of a commercial term-paper service.



16. The term “plagiarism” includes, but is not limited to, the use, by paraphrase or direct quotation, of the published or unpublished work or another person without full and clear acknowledgement. It also includes the unacknowledged use of materials prepared; by another person or agency engaged in the selling of term papers or other academic materials.
17. The term “designee” is the person(s) designated by the college or District. The Vice President of Student Services or college President may name a designee for Vice President of Student Services. The campus safety administrator or President may name a designee for campus safety administrator. The Chancellor may name the college President or another designee for Chancellor.
18. The term “day” means a day during fall and spring semesters when the College is in session and regular classes are held, excluding Saturdays and Sundays. For the summer session, days—for purposes of notice and response under this Administrative Procedure-- may be reasonably extended to ensure the responsible parties are able to appropriately attend to the issue. Notice of extension will be provided to the student.

Date Approved: March 18, 2014; Revised August 2016.
(This procedure replaces Administrative Rules and Procedures 5512)

DISTRICT ADMINISTRATIVE PROCEDURE AP 5520 STUDENT DISCIPLINE PROCEDURES

References:

Education Code Sections 66300, 72122, and 76030

The purpose of this procedure is to provide a prompt and equitable means to address violations of the Standards of Student Conduct. If the student wishes to proceed beyond the informal process described in AP 550, then the following procedure applies. This procedure guarantees to the student or students involved the due process rights guaranteed them by state and federal constitutional protections. This procedure will be used in a fair and equitable manner, and not for purposes of retaliation. It is not intended to substitute for criminal or civil proceedings that may be initiated by other agencies.

These Administrative Procedures are specifically not intended to infringe in any way on the rights of students to engage in free expression as protected by the state and federal constitutions, and by Education Code Section 76120, and will not be used to punish expression that is protected.

Definitions:

District – The Chabot-Las Positas Community College District.

Student – Any person currently enrolled as a student at any college or in any program offered by the District.

Instructor – Any academic employee of the District in whose class a student subject to discipline is enrolled, or counselor who is providing or has provided services to the student, or other academic employee who has responsibility for the student’s educational program.

Designee- A person designated by the college or District. The Vice President of Student Services or college President may name a designee for Vice President of Student Services. The campus safety administrator or President may name a designee for campus safety administrator. The Chancellor may name the college President or another designee for Chancellor.

Short-term Suspension – Exclusion of the student by the Chancellor for good cause from one or more classes for a period of up to ten consecutive days of instruction.

Long-term Suspension – Exclusion of the student by the Chancellor for good cause from one or more classes for the remainder of the school term, or from all classes and activities of the college for one or more terms.

Expulsion – Exclusion of the student by the Board of Trustees from all colleges in the District for one or more terms.

Removal from class – Exclusion of the student by an instructor for the day of the removal and the next class meeting.

Written or verbal reprimand – An admonition to the student to cease and desist from conduct determined to violate the Standards of Student Conduct. Written reprimands may become part of a student’s permanent record at the college. A record of the fact that a verbal reprimand has been given may become part of a student’s record at the college for a period of up to one year.

Withdrawal of Consent to Remain on Campus – Withdrawal of consent by the campus security administrator/supervisor or designee for any person to remain on campus in accordance with California Penal Code Section 626.4 where the campus security administrator/supervisor or designee has reasonable cause to believe that such person has willfully disrupted the orderly operation of the campus.



Day – Days during fall and spring semesters when the College is in session and regular classes are held, excluding Saturdays and Sundays. For the summer session, days—for purposes of notice and response under this Administrative Procedure—may be reasonably extended to ensure the responsible parties are able to appropriately attend to the issue. Notice of extension will be provided to the student.

Short-term Suspensions, Long-term Suspensions, and Expulsions: Before any disciplinary action to suspend or expel is taken against a student, the following procedures will apply:

- **Notice** – The Vice President of Student Services or designee (VPSS/Designee) will provide the student with written notice of the conduct warranting the discipline. The written notice will include the following:
 - › the specific section of the Standards of Student Conduct that the student is accused of violating.
 - › a short statement of the facts supporting the accusation.
 - › the right of the student to meet with the VPSS/Designee to discuss the accusation, or to respond in writing.
 - › the nature of the discipline that is being considered.
- **Time limits** – The notice must be provided to the student within 5 days of the date on which the conduct was reported; in the case of continuous, repeated or ongoing conduct, the notice must be provided within 10 days of the date on which conduct was reported which led to the decision to take disciplinary action.
- **Meeting** – If the student chooses to meet with the VPSS/Designee, the student will again be told the facts leading to the accusation, and must be given an opportunity to respond verbally or in writing to the accusation. Within 5 days of the meeting, subject to any needed further investigation, the VPSS/Designee will deliver a written statement to the accused student in accordance with Administrative Procedure 5500. The student may either accept the VPSS/Designee decision, and allow the recommended action to proceed, or may, if the recommended action is long-term suspension or expulsion, notify the VPSS/Designee in writing within two (2) working days to initiate a formal hearing.

- **Short-term Suspension** – After the meeting described above, the VPSS/Designee may decide to impose a short-term suspension, to impose some lesser disciplinary action, or to end the matter. A short-term suspension will be for up to 10 days. Written notice of the VPSS/Designee decision shall be provided to the student within 5 days after the meeting. The notice will include the length of time of the suspension, or the nature of the lesser disciplinary action, and the effective date of the action to be taken. The VPSS/Designee decision on a short-term suspension or lesser disciplinary action shall be final.
- **Long-term Suspension** – Within 15 days after the meeting described above, the Chancellor or designee, generally college President Chancellor/Designee) shall, pursuant to a recommendation from the VPSS/Designee, decide whether to impose a long-term suspension. Written notice of the Chancellor/Designee decision shall be provided to the student. If the Chancellor/Designee decision is to impose a long-term suspension, the notice will include the right of the student to request a formal hearing before the long-term suspension is imposed, and a copy of this policy describing the procedures for a hearing.
- **Expulsion** – Within 15 days after the meeting described above, the Chancellor/Designee shall, pursuant to a recommendation from the VPSS/Designee, decide whether to recommend expulsion to the Board of Trustees. Written notice of the Chancellor/Designee's decision shall be provided to the student. If the Chancellor/Designee decision is to impose an expulsion, the notice will include the right of the student to request a formal hearing before expulsion is imposed, and a copy of this policy describing the procedures for a hearing.

Hearing Procedures – Request for Hearing.

Within 5 days after receipt of the VPSS/Designee decision regarding a long-term suspension or expulsion, the student may request a formal hearing. The request must be made in writing to the Chancellor/Designee or designee.

Schedule of Hearing – The formal hearing shall be held within 20 days after a formal request for hearing is received.

Hearing Panel – The hearing panel for any disciplinary action shall be composed of at least one administrator, one faculty member, and one student.



The Chancellor/Designee, the president of the Academic Senate, and the Associate Students president shall each, at the beginning of the academic year, establish a list of at least five persons who will serve on student disciplinary hearing panels. The Chancellor/Designee shall appoint the hearing panel from the names on these lists. However, no administrator, faculty member or student who has any personal involvement in the matter to be decided, who is a necessary witness, or who could not otherwise act in a neutral manner shall serve on a hearing panel.

Hearing Panel Chair – The Chancellor/Designee shall appoint one member of the panel to serve as the chair. The decision of the hearing panel chair shall be final on all matters relating to the conduct of the hearing unless there is a vote by both other members of the panel to the contrary.

Conduct of the Hearing - The members of the hearing panel shall be provided with a copy of the accusation against the student and any written response provided by the student before the hearing begins.

The facts supporting the accusation shall be presented by a college representative who shall be the VPSS/Designee.

The college representative and the student may call witnesses and introduce oral and written testimony relevant to the issues of the matter.

Formal rules of evidence shall not apply. Any relevant evidence shall be admitted.

Unless the hearing panel determines to proceed otherwise, the college representative and the student shall each be permitted to make an opening statement. Thereafter, the college representative shall make the first presentation, followed by the student. The college representative may present rebuttal evidence after the student completes his/her evidence. The burden shall be on the college representative to prove by substantial of evidence that the facts alleged are true.

The student may represent himself/herself, and may also have the right to be represented by a person of his/her choice.

Hearings shall be closed and confidential unless the student requests that it be open to the public. Any such request must be made no less than 5 days prior to the date of the hearing.

In a closed hearing, witnesses shall not be present at the hearing when not testifying, unless all parties and the panel agree to the contrary.

The hearing shall be recorded by the District either by tape recording or stenographic recording, and shall be the only recording made. No witness who refuses to be recorded may be permitted to give testimony. In the event the recording is by tape recording, the hearing panel chair shall, at the beginning of the hearing, ask each person present to identify themselves by name, and thereafter shall ask witnesses to identify themselves by name. Tape recording shall remain in the custody of the District at all times, unless released to a professional transcribing service. The student may request a copy of the tape recording.

All testimony shall be taken under oath; the oath shall be administered by the hearing panel chair. Written statements of witnesses under penalty of perjury shall not be used unless the witness is unavailable to testify. A witness who refuses to be tape recorded is not unavailable.

Within 10 days following the close of the hearing, the hearing panel shall prepare and send to the Chancellor/Designee a written decision. The decision shall include specific factual findings regarding the accusation, and shall include specific conclusions regarding whether any specific section of the Standards of Student Conduct were violated. The decision shall also include a specific recommendation regarding the disciplinary action to be imposed, if any. The decision shall be based only on the record of the hearing, and not on matter outside of that record. The record consists of the original accusation, the written response, if any, of the student, and the oral and written evidence produced at the hearing.

Chancellor/Designee Decision:

Long-term suspension – Within 10 days following receipt of the hearing panel's recommended decision, the Chancellor/Designee shall render a final written decision. The Chancellor/Designee may accept, modify or reject the findings, decisions and recommendations of the hearing panel. If the Chancellor/Designee modifies or rejects the hearing panel's decision, the Chancellor/Designee shall review the record of the hearing, and shall prepare a new written decision which contains specific factual findings and conclusions. The decision of the Chancellor/Designee shall be final.

Expulsion – Within 10 days following receipt of the hearing panel's recommended decision, the Chancellor/Designee shall render a written recommended decision to the Board of Trustees. The Chancellor/Designee may accept, modify or reject the findings, decisions and recommendations of the hearing panel. If the Chancellor/Designee modifies or rejects the hearing panel's decision, he or she shall review the record of the hearing, and shall prepare a new written decision which contains specific factual findings and conclusions. The Chancellor/Designee decision shall be forwarded to the Board of Trustees.

Board of Trustees Decision: The Board of Trustees shall consider any recommendation from the Chancellor/Designee for expulsion at the next regularly scheduled meeting of the Board after receipt of the recommended decision.

The Board shall consider an expulsion recommendation in closed session, unless the student has requested that the matter be considered in a public meeting in accordance with these procedures (Education Code Section 72122).

The student shall be notified in writing, by registered or certified mail or by personal service, at least three days prior to the meeting, of the date, time, and place of the Board's meeting.

The student may, within forty-eight hours after receipt of the notice, request that the hearing be held as a public meeting.

Even if a student has requested that the Board consider an expulsion recommendation in a public meeting, the Board will hold any discussion that might be in conflict with the right to privacy of any student other than the student requesting the public meeting in closed session.

The Board may accept, modify or reject the findings, decisions and recommendations of the Chancellor/Designee and/or the hearing panel. If the Board modifies or rejects the decision, the Board shall review the record of the hearing, and shall prepare a new written decision which contains specific factual findings and conclusions. The decision of the Board shall be final.

The final action of the Board on the expulsion shall be taken at a public meeting, and the result of the action shall be a public record of the District.

Immediate Interim Suspension (Education Code Section 66017): The Chancellor/Designee may order immediate suspension of a student where he/she concludes that immediate suspension is required to protect lives or property and to ensure the maintenance of order. In cases where an interim suspension has been ordered, the time limits contained in these procedures shall not apply, and all hearing rights, including the right to a formal hearing where a long-term suspension or expulsion is recommended, will be afforded to the student within ten days.

Removal from Class (Education Code Section 76032): Any instructor may order a student removed from his/her class for the day of the removal and the next class meeting. The instructor shall immediately report the removal to the VPSS/Designee and the area dean. The area dean shall arrange for a conference between the student and the instructor regarding the removal. If the instructor or the student requests, the VPSS/Designee shall attend the conference. The student shall not be returned to the class during the period of the removal without the concurrence of the instructor. Nothing herein will prevent the VPSS/Designee from recommending further disciplinary procedures in accordance with these procedures based on the facts which led to the removal.

Withdrawal of Consent to Remain on Campus: The campus safety administrator/supervisor or VPSS/Designee may notify any person for whom there is a reasonable belief that the person has willfully disrupted the orderly operation of the campus that consent to remain on campus has been withdrawn. If the person is on campus at the time, he/she must promptly leave or be escorted off campus. If consent to remain on campus is withdrawn a written report must be promptly made to the Chancellor/Designee.

The person from whom consent has been withdrawn may submit a written request for a hearing on the withdrawal within the period of the withdrawal. The request shall be granted not later than seven days from the date of receipt of the request. The hearing will be conducted in accordance with the provisions of this procedure relating to interim suspensions.

In no case shall consent be withdrawn for longer than 5 days from the date upon which consent was initially withdrawn.

Any person as to whom consent to remain on campus has been withdrawn who knowingly reenters the campus during the period in which consent has been withdrawn, except to come for a meeting or hearing, is subject to arrest (Penal Code Section 626.4).



Time Limits: Any times specified in these procedures may be shortened or lengthened if there is mutual concurrence by all parties.

Date Approved: March 18, 2014; Revised August 2016

DISTRICT ADMINISTRATIVE PROCEDURE AP 5530 STUDENT RIGHTS AND GRIEVANCES

References:

Education Code Section 76224(a);
Title IX, Education Amendments of 1972

The purpose of this procedure is to provide a prompt and equitable means of resolving student grievances. These procedures shall be available to any student who reasonably believes a college decision or action has adversely affected his or her status, rights or privileges as a student. The procedures shall include grievances regarding:

- Course grades, to the extent permitted by Education Code Section 76224(a), which provides: "When grades are given for any course of instruction taught in a community college District, the grade given to each student shall be the grade determined by the instructor of the course and the determination of the student's grade by the instructor, in the absence of mistake, fraud, bad faith, or incompetency, shall be final." "Mistake" may include, but is not limited to errors made by an instructor in calculating a student's grade and clerical errors.
- Violation of policies and procedures by the college to the extent they have a direct and significant impact on the student, such as on the student's exercise of rights of free expression. Under this section, a grievance may be initiated by a student alleging the violation of college/district policies and procedures against an instructor, an administrator or a member of the classified staff.

This procedure does not apply to:

- Student disciplinary actions, which are covered under separate Board Policies and Administrative Procedures.
- Sex discrimination, sexual harassment, or illegal discrimination which are covered under separate Board Policies and Administrative Procedures.
- Financial aid actions, which are covered under separate Board Policies and Administrative Procedures.
- Police citations (i.e. "tickets"); complaints about citations must be directed to the County Courthouse in the same way as any traffic violation.

Definitions:

Party – The student or any persons claimed to have been responsible for the student's alleged grievance, together with their representatives. "Party" shall not include the Grievance Hearing Committee or the College Grievance Officer.

Student – A currently enrolled student, a person who has filed an application for admission to the college, or a former student. A grievance by an applicant shall be limited to a complaint regarding denial of admission. Former students shall be limited to grievances relating to course grades to the extent permitted by Education Code Section 76224(a).

Designee – A person designated by the college or District. The Vice President of Student Services or college President may name a designee for Vice President of Student Services. The Vice President of Academic Affairs or college President may name a designee for Vice President of Academic Affairs. The Chancellor or college President may name a designee for President. The Chancellor may name the college President or another designee for Chancellor.

Respondent – Any person claimed by a grievant to be responsible for the alleged grievance.

Day – Days during fall and spring semesters when the College is in session and regular classes are held, excluding Saturdays and Sundays. For the summer session, days—for purposes of notice and response under this Administrative Procedure-- may be reasonably extended to ensure the responsible parties are able to appropriately attend to the issue. Notice of extension will be provided to the student.

Informal Resolution – Each student who has a grievance shall make a reasonable effort to resolve the matter on an informal basis prior to requesting a grievance hearing, and shall attempt to solve the problem with the person with whom the student has the grievance, that person's immediate supervisor, or the local college administration.

The Vice President of Academic Affairs or designee shall serve as Grievance Officer on grade disputes and grievances arising out of instructional services. The Vice President of Student Services or designee shall serve as Grievance Officer for grievances arising outside of instructional services. The Grievance Officer and the student may also seek the assistance of the Associated Student Organization in attempting to resolve a grievance informally.

Informal meetings and discussion between persons directly involved in a grievance are essential at the outset of a dispute and should be encouraged at all stages. An equitable solution should be sought before persons directly involved in the case have stated official or public positions that might tend to polarize the dispute and render a solution more difficult. At no time shall any of the persons directly or indirectly involved in the case use the fact of such informal discussion, the fact that a grievance has been filed, or the character of the informal discussion for the purpose of strengthening the case for or against persons directly involved in the dispute or for any purpose other than the settlement of the grievance.

Any student who believes he/she has a grievance shall file a Statement of Grievance with the appropriate Grievance Officer within 10 days of the incident on which the grievance is based, or 10 days after the student learns of the basis for the grievance, whichever is later. The Statement of Grievance must be filed whether or not the student has already initiated efforts at informal resolution, if the student wishes the grievance to become official. Within 5 days following receipt of the Statement of Grievance Form, the Grievance Officer shall advise the student of his or her rights and responsibilities under these procedures, and assist the student, if necessary, in the final preparation of the Statement of Grievance form.

If at the end of 10 days following the student's first meeting with the Grievance Officer, there is no informal resolution of the complaint which is satisfactory to the student, the student shall have the right to request a grievance hearing.

Grievance Hearing Committee: The college President shall at the beginning of each academic year, establish a standing panel of 15 members of the college community, including 5 students, 5 faculty members and 5 administrators, from which one or more Grievance Hearing Committees may be appointed. The panel will be established with the advice and assistance of the Associated Students Organization and the Academic Senate, who shall each submit names to the Chancellor for inclusion on the panel. A Grievance Hearing Committee shall be constituted in accordance with the following:

- It shall include at least 1 student, 1 instructor, and 1 college administrator selected from the panel described above.
- No person shall serve as a member of a Grievance Hearing Committee if that person has been personally involved in any matter giving rise to the grievance, has made any statement on the matters at issue, or could otherwise not act in a neutral manner. Any party to the grievance may challenge for cause any member of the hearing committee prior to the beginning of the hearing by addressing a challenge to the Grievance Officer who shall determine whether cause for disqualification has been shown. If the Grievance Officer feels that sufficient ground for removal of a member of the committee has been

presented, the Grievance Officer shall remove the challenged member or members and substitute a member or members from the panel described above. This determination is subject to appeal as defined below.

The Grievance Officer shall sit with the Grievance Hearing Committee but shall not vote, except to break a tie. The Grievance Officer shall coordinate all scheduling of hearings, shall serve to assist all parties and the Hearing Committee to facilitate a full, fair and efficient resolution of the grievance, and shall avoid an adversary role.

Request for Grievance Hearing – A request for a grievance hearing shall be filed on a Request for a Grievance Hearing no later than 10 days following the student's first meeting with the Grievance Officer.

Within 10 days following receipt of the request for grievance hearing, the college President shall appoint a Grievance Hearing Committee as described above, and the Grievance Hearing Committee shall meet in private and without the parties present to select a chair and to determine on the basis of the Statement of Grievance whether it presents sufficient grounds for a hearing.

The determination of whether the Statement of Grievance presents sufficient grounds for a hearing shall be based on the following:

- The statement contains facts which, if true, would constitute a grievance under these procedures;
- The grievant is a student as defined in these procedures, which include applicants and former students;
- The grievant is personally and directly affected by the alleged grievance;
- The grievance was filed in a timely manner;
- The grievance is not clearly frivolous, clearly without foundation, or clearly filed for purposes of harassment.

If the grievance does not meet each of the requirements, the Grievance Officer shall notify the student in writing of the rejection of the Request for a Grievance Hearing, together with the specific reasons for the rejection and the procedures for appeal. This notice will be provided within 5 days of the date the decision is made by the Grievance Hearing Committee.

If the Request for Grievance Hearing satisfies each of the requirements, the College Grievance Officer shall schedule a grievance hearing. The hearing will begin within 15 days following the decision to grant a Grievance Hearing. All parties to the grievance shall be given not less than 5 days notice of the date, time and place of the hearing.



Hearing Procedure

The decision of the Grievance Hearing Committee chair shall be final on all matters relating to the conduct of the hearing unless there is a vote of a majority of the other members of the panel to the contrary.

The members of the Grievance Hearing Committee shall be provided with a copy of the grievance and any written response provided by the respondent before the hearing begins.

Each party to the grievance may call witnesses and introduce oral and written testimony relevant to the issues of the matter.

Formal rules of evidence shall not apply. Any relevant evidence shall be admitted.

Unless the Grievance Hearing Committee determines to proceed otherwise, each party to the grievance shall be permitted to make an opening statement. Thereafter, the grievant or grievants shall make the first presentation, followed by the respondent or respondents. The grievant(s) may present rebuttal evidence after the respondent(s)' evidence. The burden shall be on the grievant or grievants to prove by substantial evidence that the facts alleged are true and that a grievance has been established as specified above.

Each party to the grievance may represent himself/herself, and may also have the right to be represented by a person of his/her choice; except that a party shall not be represented by an attorney unless, in the judgment of the Grievance Officer, complex legal issues are involved. If a party wishes to be represented by an attorney, a request must be presented not less than 5 days prior to the date of the hearing. If one party is permitted to be represented by an attorney, any other party shall have the right to be represented by an attorney. The hearing committee may also request legal assistance through the Grievance Officer. Any legal advisor provided to the hearing committee may sit with it in an advisory capacity to provide legal counsel but shall not be a member of the panel nor vote with it.

Hearings shall be closed and confidential unless all parties request that it be open to the public. Any such request must be made no less than 5 days prior to the date of the hearing.

In a closed hearing, witnesses shall not be present at the hearing when not testifying, unless all parties and the committee agree to the contrary.

The hearing shall be recorded by the Grievance Officer either by tape recording or stenographic recording, and shall be the only recording made. No witness who refuses to be recorded may be permitted to give testimony. In the event the recording is by tape recording, the Grievance Hearing Committee Chair shall, at the beginning of the hearing, ask each person present to identify themselves by name, and thereafter shall ask witnesses to identify themselves by name. The tape recording shall remain in the custody of the District, either at the college or the District office, at all times, unless released to a professional transcribing service. Any party may request a copy of the tape recording.

All testimony shall be taken under oath; the oath shall be administered by the Grievance Hearing Committee Chair. Written statements of witnesses under penalty of perjury shall not be used unless the witness is unavailable to testify. A witness who refuses to be tape recorded shall be considered to be unavailable.

Within 10 days following the close of the hearing, the Grievance Hearing Committee shall prepare and send to the college President a written decision. The decision shall include specific factual findings regarding the grievance, and shall include specific conclusions regarding whether a grievance has been established as defined above. The decision shall also include a specific recommendation regarding the relief to be afforded the grievant, if any. The decision shall be based only on the record of the hearing, and not on matter outside of that record. The record consists of the original grievance, any written response, and the oral and written evidence produced at the hearing.

President's Decision: Within 5 days following receipt of the Grievance Hearing Committee's decision and recommendation(s), the college President shall send to all parties his/her written decision, together with the Hearing Committee's decision and recommendations. The President may accept or reject the findings, decisions and recommendations of the Hearing Committee. The factual findings of the Hearing Committee shall be accorded great weight. If the President does not accept the decision or a finding or recommendation of the Hearing Committee, the President shall review the record of the hearing, and shall prepare a new written decision which contains specific factual findings and conclusions. The decision of the President shall be final, subject only to appeal as provided below.

Appeal: Any appeal relating to a Grievance Hearing Committee decision that the Statement of Grievance does not present a grievance as defined in these procedures shall be made in writing to the college President within 5 days of that decision. The President shall review the Statement of Grievance and Request for Grievance Hearing in accordance with the requirements for a grievance provided in these procedures, but shall not consider any other matters. The President's decision whether or not to grant a grievance hearing shall be final and not subject to further appeal.

Any party to the grievance may appeal the decision of the President after a hearing before a Grievance Hearing Committee by filing an appeal with the President. The President may designate a college administrator or request that the Chancellor designate a District administrator to review the appeal and make a recommendation.

Any such appeal shall be submitted in writing within five days following receipt of the President's decision and shall state specifically the grounds for appeal.

The written appeal shall be sent to all concerned parties. All parties may submit written statements on the appeal.

The President's designee shall review the record of the hearing and the documents submitted in connection with the appeal, but shall not consider any matters outside of the record. Following the review of the record and appeal statements, the President's designee shall make a written recommendation to the President regarding the outcome of the appeal.

The President may decide to sustain, reverse or modify the decision of the President's designee. The President's decision shall be in writing and shall include a statement of reasons for the decision. The President's decision shall then be final.

The decision on appeal shall be reached within five days after receipt of the appeal documents. Copies of the appeal decision shall be sent to all parties.

Time Limits:

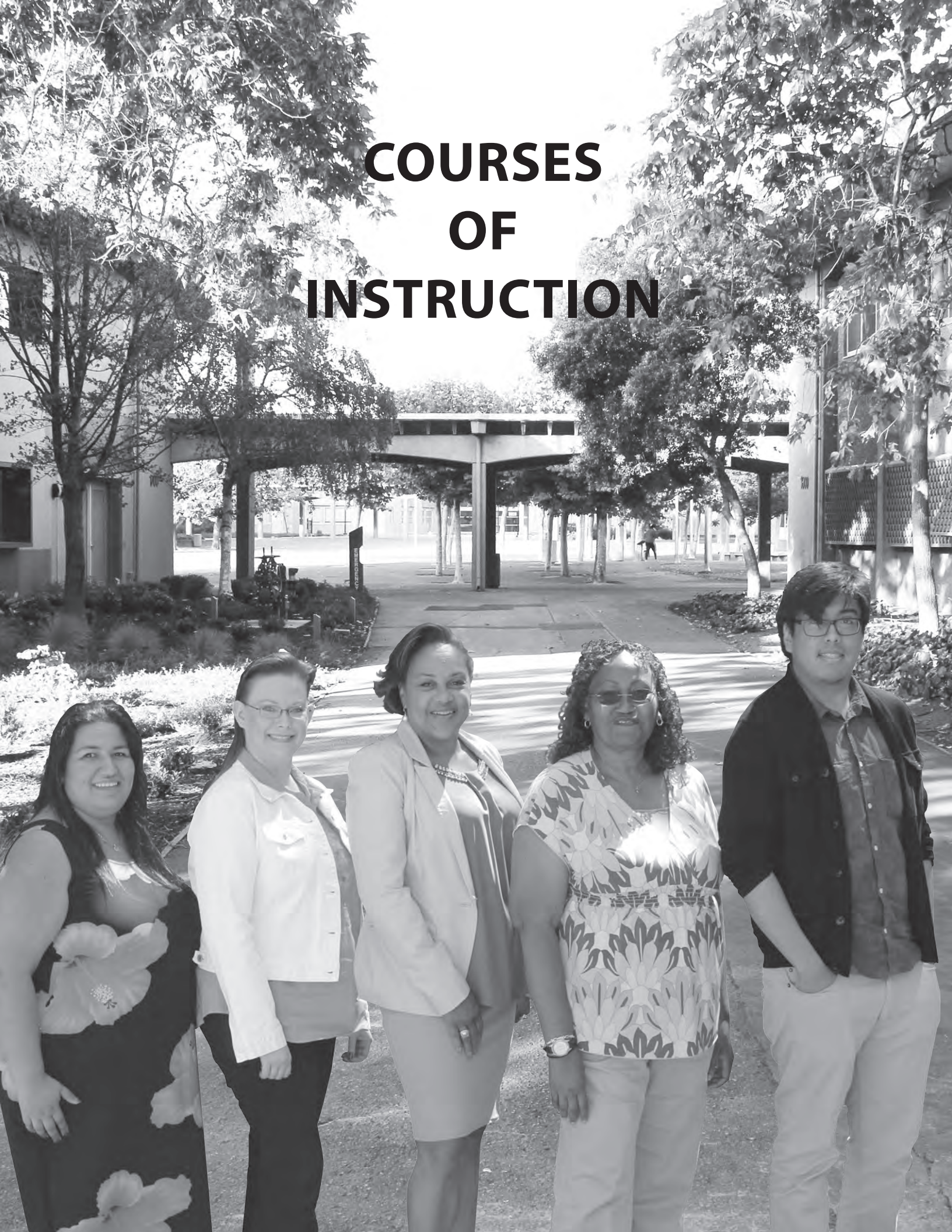
Any times specified in these procedures may be shortened or lengthened if there is mutual concurrence by all parties.

Date Approved: March 18, 2014; Revised August 2016

(This procedure replaces Administrative Rules and Procedures 5513)



COURSES OF INSTRUCTION





ACADEMIC CREDIT, UNITS & COURSE NUMBERING

Courses at Chabot College are categorized in terms of credit-bearing, non-credit, and not-for-credit community service courses. Courses offered by the Community Education department are community-service offerings, do not carry college credit, and are not listed in the college catalog (not-for-credit), (see page 67). Courses listed in this catalog are either credit-bearing or non-credit. Non-credit courses do not carry college credit, and many have no enrollment fee. Non-credit courses are identified as such in the course listing, and are numbered 200 or higher. All other courses listed in the catalog are credit courses and carry college units.

Semester Units

All courses in this catalog are described in semester units. One unit is equivalent to three hours of recitation, study or laboratory work per week throughout a semester.

Numbering System and Transferability of Courses

The system used in designation of courses is established to indicate the intent of the course and its relationship to the offerings of four year colleges and universities. Typically courses numbers 1-99 may be transferable to CSU or UC. It is important to check on www.assist.org to verify transferability of Chabot courses as there may be transfer limitations imposed by the transfer school on Chabot courses. Courses numbered 100 and above are not degree applicable for AA Degree, AS Degree, AA-T or AS-T or for transfer credit. Students may not receive more than 30 semester units for precollegiate basic skills courses (ESL and learning disabled students are exempted).

Special Numbers and Rubrics

The following special numbers and rubrics are used with a variety of course subject titles. Refer to the catalog listing for further description.

- 9 Colloquia (can be offered in any discipline)
- 29 Independent Study (can be offered in any discipline)
- 97 Apprenticeship Courses
- 99 Special Studies (can be offered in any discipline)
- 100–149 Basic Skills (not Degree applicable, non transferable)
- 150–199 Continuing Education Studies (not Degree applicable, non transferable)
- 200–299 Community Interest Studies (Non-Credit, not Degree applicable)

Numbering for courses taught in the Health, Kinesiology and Athletics Division - A special number system was developed for certain activity, theory, and intercollegiate courses. The following course identifiers are used:

- ADPE= Adapted Physical Education (these courses are repeatable)
- ATHL= Intercollegiate Athletics (these courses may be repeatable)
- DANC= Dance
- HEAG= Healthy Aging Older Adults (these courses are not degree applicable)
- KINE= Kinesiology (these are theory courses)
- PEAC= Physical Education Activity

The identifiers of these courses may be a numerical/alpha combination. Example: PEAC ARH1 is Archery 1.

CLASS SCHEDULE

The specific information regarding the days, hours, instructors and rooms in which classes will be held in the coming semester is contained in the Class Schedule which is available from the Bookstore prior to the start of the semester.

REGISTRATION

A student must be registered in a course within the officially designated time, to receive credit.

COURSE ATTRIBUTES AND TRANSFER DESIGNATIONS

Look at the end of course descriptions to see the course attributes for application to the AA/AS Degree or transfer.

- CSU: Course will transfer to the California State University. For an alphabetical listing of all courses transferable to CSU, see the CSU Transferable Courses flyer.*
- UC: Course will transfer to the University of California. Refer to the UC Transferable Courses flyer (alphabetical listing of all courses transferable to UC).*
- CSU/GE: To see the Area satisfied by this course, refer to the CSU/General Education Breadth Requirements flyer.*
- IGETC: The IGETC Requirements flyer lists General Education requirements for transfer to UC or CSU and some private schools.*
- C-ID: The Course Identification Numbering System is a faculty-driven project funded by the California Community College System Office. Most C-ID numbers identify lower-division transferable courses commonly articulated between the California Community Colleges (CCC) and universities (including Universities of California, the California State Universities, as well as with many of California's independent colleges and universities). For more information, go to www.c-id.net.

*Flyers are available in the Career/Transfer Center and Counseling Center (Building 700).



ADMINISTRATION OF JUSTICE (ADMJ)

DEGREE:

AS-T—ADMINISTRATION OF JUSTICE

AA—ADMINISTRATION OF JUSTICE

ADMINISTRATION OF JUSTICE ASSOCIATE IN SCIENCE FOR TRANSFER

The Associate of Science Degree in Administration of Justice for Transfer (AS-T) is specifically designed to prepare students to transfer to a California State University offering a major in Administration of Justice/Criminal Justice. The two year program combines instruction in aspects of criminal justice system with law enforcement, criminal law, evidence, and criminal procedure, with general education courses required for graduation and transfer. The degree prepares students seeking to transfer to a CSU Administration of Justice program or for careers in law enforcement, probation and parole, corrections, security and related criminal justice and technical occupations.

CAREER OPPORTUNITIES IN ADMINISTRATION OF JUSTICE

Criminal Justice and related fields represent high growth employment opportunities. Some potential careers include Police Officer, County Sheriff, State Highway Patrol Officer, Correctional Officer, Probation and Parole Officers, Juvenile Counselor and Probation Officers.

PROGRAM-LEVEL OUTCOMES

1. Evaluate and analyze criminal justice issues and topics using knowledge of criminal justice institutions, terminology, theory and ethical issues in crime and justice.
2. Understand the interdisciplinary nature of criminal justice and the varying perspectives of the liberal arts and sciences as related to law enforcement, courts, and corrections.

REQUIRED CORE (6 UNITS)

	UNITS
ADMJ 50 Introduction to the Administration of Justice	3
ADMJ 60 Criminal Law	3

List A: Select two courses from the following (6 units)

	Units
ADMJ 61 Evidence	3
ADMJ 63 Criminal Investigation	3
ADMJ 70 Community Relations	3
ADMJ 55 Introduction to Correctional Science	3
ADMJ 40 Juvenile Procedures	3
ADMJ 80 Criminal Court Process	3
ADMJ 85 Introduction to Forensics	3

List B: Select two courses from the following (Minimum 6 units)

	Units
SOCI 1 Principles of Sociology	3
PSY 1 General Psychology	3
PSY 5 Introductory Statistics for the Behavioral and Social Sciences	4
or	
MTH 43 Introduction to Probability and Statistics	4

Required major courses 18-19 units

CSU GE or IGETC (CSU) 37-39 units

(Possible double counting 12 units)

CSU transfer Electives as needed to reach 60 CSU transferable units

Total minimum units required 60

All courses in the major area of emphasis are required to have a grade of "C" or higher, and a cumulative GPA of 2.0 must be achieved.

TOTAL UNITS

18 - 19

ADMINISTRATION OF JUSTICE ASSOCIATE IN ARTS DEGREE

The Administration of Justice curriculum is designed to prepare students for careers in the fields of law enforcement, probation, parole, security, and related criminal justice fields along with related technical occupations. The two-year program combines instruction in corrections, law enforcement and security with general education courses required for graduation. Students can earn an Associate in Arts degree in Administration of Justice or Certificates of Completion in Correctional Science or Security. The program has been authorized by the Commission on Peace Officer Standards and Training and the Board of Corrections to offer certain technical and special courses.

PROGRAM-LEVEL OUTCOMES

1. Evaluate and analyze criminal justice issues and topics using knowledge of criminal justice institutions, terminology, theory and ethical issues in crime and justice.
2. Understand the interdisciplinary nature of criminal justice and the varying perspectives of the liberal arts and sciences as related to law enforcement, courts, and corrections.

YEAR ONE

	UNITS
ADMJ 50 Introduction to the Administration of Justice	3
ADMJ 54 Investigative Reporting	3
ADMJ 60 Criminal Law	3
ADMJ 61 Evidence	3

YEAR TWO

	UNITS
ADMJ 63 Criminal Investigation	3
ADMJ 70 Community Relations	3
Administration of Justice options *	4 - 6
HLTH 60 Responding to Emergencies	1

For specific A.A. General Education courses refer to catalog section on A.A. General Education Requirements.

TOTAL UNITS

23 - 25

*Administration of Justice Options to be chosen from:
ADMJ 55, 59, 69, 74, 79, and 89)



ADMINISTRATION OF JUSTICE (ADMJ)

40 JUVENILE PROCEDURES

3 UNITS

This course is an examination of the origin, development, and organization of the juvenile justice system as it evolved in the U.S. justice system. The course explores the theories that focus on juvenile law, courts and processes, and the constitutional protections extended to juveniles in the U.S. justice system. Strongly Recommended: ADMJ 50. 3 hours. Transfer: CSU; C-ID: AJ 220.

45 LAW AND DEMOCRACY

3 UNITS

(See also Political Science 45)

The Law and Democracy course is an interdisciplinary exploration of themes such as equality, citizenship, participation, access, and social justice. We will look critically at how law structures as well as limits democracy and examine the idea of democracy as a universal value. Strongly recommended: eligibility for English 1A. Prerequisite: Political Science 1 or Administration of Justice 50 (completed with a grade of "C" or higher). (UC unit/credit limits may apply) **May not receive credit if Political Science 45 has been completed.** 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

50 INTRODUCTION TO THE ADMINISTRATION OF JUSTICE

3 UNITS

This is an introductory course that examines the characteristics of the criminal justice system in the United States. The course covers the history, theory, and philosophy of administration of justice and the evolution of the principles, operational practices, and structure of the police, courts, and corrections agencies. Particular emphasis is placed on crime measurement, theoretical explanations of crime, and the challenges and opportunities for law enforcement in an increasingly diverse society. Students are introduced to the origins and development of criminal law, legal processes, and sentencing and incarceration policies. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: AJ 110. (UC unit/credit limits may apply) and boldface: **May not receive credit if Political Science 45 has been completed.**

54 INVESTIGATIVE REPORTING

3 UNITS

Investigative reports with emphasis upon accuracy and necessary details. Includes arrest reports, incident reports, and miscellaneous field reports. Techniques and methods used to cover information; how to analyze and present information in a clear and concise report. 3 hours. Transfer: CSU.

55 INTRODUCTION TO CORRECTIONAL SCIENCE

3 UNITS

This course provides a critical analysis of punishment and the modern correctional process as utilized in the rehabilitation of adult and juvenile offenders. Exploration of the various types of punishment, alternatives to punishment, types of correctional institutions, and the impact of punishment on the criminal justice system. 3 hours. Transfer: CSU; C-ID: AJ 200.

59 CHILD ABUSE IN THE COMMUNITY

2 UNITS

Dynamics of battered child syndrome. Focus on the abusive caretaker, patterns of abuse, and means necessary for effective intervention and treatment including effective legal and social action to control child abuse in the community. 2 hours. Transfer: CSU.

60 CRIMINAL LAW

3 UNITS

This course offers an analysis of the doctrine of criminal liability in the United States and the classification of crimes against persons, property, morals, and public welfare. Special emphasis is placed on the classification of crime, the general elements of particular crimes, and defenses to crime. This course utilizes case law and case studies to introduce students to criminal law and will include some limited discussion of prosecution and defense decision making, criminal culpability, and defenses to crime. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: AJ 120.

61 EVIDENCE

3 UNITS

This course examines the origins, development, philosophy and the constitutional basis for the rules of evidence. During the course of the semester, we will explore the rules and policies governing the kinds of information which can be received at trial, how evidence can be properly developed and obtained by law enforcement officers, and how evidence may be considered by the judge and/or jury. Topics are considered from both a theoretical and a practical viewpoint. Strongly Recommended: ADMJ 50 and ADMJ 60. 3 hours. Transfer: CSU; C-ID: AJ 124.

63 CRIMINAL INVESTIGATION

3 UNITS

This course addresses the techniques, procedures, and ethical issues in the investigation of crime, including organization of the investigative process, crime scene searches, interviewing and interrogating, surveillance, source of information, utility of evidence, scientific analysis of evidence and the role of the investigator in the trial process. Strongly Recommended: ADMJ 50 and ADMJ 60. 3 hours. Transfer: CSU; C-ID: AJ 140.

69 SEX CRIME INVESTIGATION

3 UNITS

Sexual assault investigations; human behavior in relation to sexual attitudes and behavior; sexual assault laws and investigations; interview and interrogation techniques: court preparation and trial phase; sex crime prevention. 3 hours. Transfer: CSU.

70 COMMUNITY RELATIONS

3 UNITS

This course examines the complex, dynamic relationship between communities and the justice system in addressing crime and conflict with an emphasis on the challenges and prospects of administering justice within a diverse multicultural population. Topics covered may include crime prevention, restorative justice, conflict resolution, and ethics. Strongly Recommended: ADMJ 50. 3 hours. Transfer: CSU; UC; C-ID: AJ 160.

**74 GANGS AND DRUGS****2 UNITS**

Definition of a gang and gang activity. Historical and cultural aspects. Interrelationships among local, national and international gangs including prison gangs. Gang activity in relation to drug trafficking. 2 hours. Transfer: CSU.

79 HOMICIDE INVESTIGATION**3 UNITS**

Analysis of the death case in order to arrive at the true cause and manner of the death, whether it be murder, suicide, accidental or natural. Emphasis on importance to investigation of the death scene. 3 hours. Transfer: CSU.

80 CRIMINAL COURT PROCESS**3 UNITS**

This course examines due process and the constitutional, statutory and rule-based issues that arise in the formal processing of a criminal case from pre-arrest through trial and appeal. Strongly Recommended: ADMJ 50 and ADMJ 60. 3 hours. Transfer: CSU; C-ID: AJ 122.

85 INTRODUCTION TO FORENSICS**3 UNITS**

This course provides an introduction to the role of forensics in criminal investigations. It examines the methods utilized in the forensic analysis of crime scenes, pattern evidence, instruments, firearms, documents and controlled substances. Strongly Recommended: ADMJ 50. 3 hours. Transfer: CSU; C-ID: AJ 150.

89 FAMILY VIOLENCE**3 UNITS**

Origins of violence in the family including child abuse from the administration of justice perspective. Specific types of violent interactions and abuse among family members and responsible adults. Emphasis on techniques for use by peace officers and other social service professionals to intervene effectively. 3 hours. Transfer: CSU.

**90 RESERVE MODULE A:
ARREST AND CONTROL****4 UNITS**

Designed for candidates of a reserve police program and fulfills the PC832 requirements for Peace Officer Safety and Training (POST) certification. Includes ethical considerations concerning law enforcement ethics; leadership in law enforcement; criminal justice system; criminal law; arrest; laws of arrest; search and seizure; methods of arrest; investigation and communications; use of firearms and chemical agents. 4 hours.

91 RESERVE MODULE A: FIREARMS**1.5 UNITS**

Fire arm training with ethical considerations concerning the use of firearms and firearms safety. Techniques of shooting range qualification. Prerequisite: **Administration of Justice 90** (completed with a grade of "C" or higher). 24 total hours.

ADMINISTRATIVE ASSISTANT

(See Computer Applications Systems)

ANATOMY

(See Biological Sciences)

ANTHROPOLOGY**DEGREE:**

AA-T—ANTHROPOLOGY

AA—ANTHROPOLOGY

ANTHROPOLOGY

ASSOCIATE IN ARTS FOR TRANSFER DEGREE

Chabot College offers an Associate in Arts for Transfer Degree in Anthropology specifically for students who wish to transfer as Anthropology majors to a California State University. Anthropologists study humans from a biocultural and evolutionary perspective. Emphasis is placed on biological and cultural diversity, on the interaction between humans and their physical and cultural environment and on the evolution of human biological and cultural adaptations. The core courses introduce students to three major subfields of Anthropology. Students can then focus on their area/s of interest by taking additional Anthropology courses, and courses in related fields.

CAREER OPPORTUNITIES IN ANTHROPOLOGY

An Associate in Arts for Transfer Degree in Anthropology enables students to pursue graduate studies if they choose a teaching, research, or field career in Anthropology. It is also a good preparation for anyone who chooses a career that requires a cross-cultural perspective and sensitivity to other cultures (education, medical fields, business, law, law enforcement, administration, management, politics), a good understanding of humans' interaction with their physical and cultural environment (human ecology, environmental science), and/or a good understanding of evolutionary processes (medical and pharmaceutical research).

PROGRAM-LEVEL OUTCOMES

1. Analyze human biological and cultural adaptations. In this context, evaluate the different factors that have affected, and are affecting humans biologically and culturally.
2. Analyze the factors that cause modern humans biological and cultural diversity, and demonstrate an appreciation for, and sensitivity to human biological and cultural diversity.



REQUIRED CORE: (10 UNITS).

ANTH 1	Biological/Physical Anthropology	3
ANTH 2	Introduction to Archaeology	3
ANTH 3	Social and Cultural Anthropology	3
ANTH 1L	Biological/Physical Anthropology Laboratory	1

List A: Select any course articulated as lower division preparation for the Anthropology major at a CSU.

		Units
ANTH 4	Language and Culture	3
ANTH 12	Magic, Religion, Witchcraft and Healing	3
BIOL 10	Introduction to the Science of Biology or	4
BIOL 31	Introduction to College Biology	4
MTH 43	Introduction to Probability and Statistics or	4
PSY 5	Introductory Statistics for the Behavioral and Social Sciences	4

List B: Select 1 to 2 course/s (3-5 units). Any course from List A not already used.

		Units
Any course/s not selected from List A		
ANAT 1	General Human Anatomy	5
GEOG 20	Introduction to Geographic Information Systems	3
SOCI 5	Introduction to Social Research Methods	3

List C: Select 1 course (3 units) from the following: Any course from List A or B not already used; any CSU transferable Anthropology course; any non-Anthropology course from the humanities or social sciences on cultural diversity.

		Units
Any course/s not selected from List A or List B.		
ANTH 5	Cultures of the U.S. in Global Perspective	3
ANTH 7	Introduction to Global Studies: An Anthropological Perspective	3
ANTH 8	Native American Cultures	3
ANTH 13	Forensic Anthropology	3
COMM 11	Intercultural Communication	3
ES 1	Introduction to Ethnic Studies	3
ES 2	Contemporary Ethnic Minority Families in the U.S.	3
GEOG 2	Cultural Geography	3
GEOG 3	Economic Geography	3
GEOG 10	Global Environmental Problems	3
MUSL 3	World Music	3
PSCN 4	Multiethnic/Cultural Communication	3
PSCN 13	Multicultural Issues in Contemporary America	3
RELS 50	Religions of the World	3
SOCI 3	Introduction to Race and Ethnic Relations	3

General Education for Transfer to CSU

Required courses for the major: 19-22 units
 CSU GE or IGETC (CSU) 37-39 units
 (Possible Double-counting: 19 units)
 CSU transfer Electives as needed to reach 60 CSU transferable units.

TOTAL UNITS **19 - 22**

ANTHROPOLOGY
ASSOCIATE IN ARTS

Chabot College offers and Associate in Arts Degree in Anthropology to provide students with a multidisciplinary and holistic approach to the study of humans. Emphasis is placed on biological and cultural diversity, on the interaction between humans and their physical and cultural environment and on the evolution of human biological and cultural adaptations. The core courses introduce students to three of the subfields of Anthropology: Biological/Physical Anthropology. Students can then focus on their area/s of interest by taking additional Anthropology courses (Area A), and courses in related fields (Area B).

PROGRAM-LEVEL OUTCOMES

1. Analyze human biological and cultural adaptations. In this context, evaluate the different factors that have affected, and are affecting humans biologically and culturally.
2. Analyze the factors that cause modern humans biological and cultural diversity, and demonstrate an appreciation for, and sensitivity to human biological and cultural diversity.

YEAR ONE

		UNITS
ANTH 1	Biological/Physical Anthropology	3
ANTH 1L	Biological/Physical Anthropology Laboratory	1
ANTH 2	Introduction to Archaeology	3

YEAR TWO

		UNITS
ANTH 3	Social and Cultural Anthropology	3
ELECTIVES *		12 - 16

***Area A - Choose 2 courses from the following list (6 units):**

		Units
ANTH 4	Language and Culture	3
ANTH 5	Cultures of the U.S. in Global Perspective	3
ANTH 7	Introduction to Global Studies: An Anthropological Perspective	3
ANTH 8	Native American Cultures	3
ANTH 12	Magic, Religion, Witchcraft and Healing	3
ANTH 13	Forensic Anthropology	3



***Area B: Choose 2 courses from the following list (3-5 units) Units**

ADMJ 45	Law and Democracy	3
ANAT 1	General Human Anatomy	5
BIOL 2	Principles of Cell/Molecular Biology and Genetics	5
BIOL 4	Principles of Animal Biology and Evolution	4
BIOL 6	Principles of Plant Biology and Ecology	4
BIOL 10	Introduction to the Science of Biology	4
BIOL 25	Human Heredity and Evolution	3
BIOL 31	Introduction to College Biology	4
BIOL 50	Anatomy and Physiology	4
COMM 11	Intercultural Communication	3
ECD 50	Early Childhood Principles and Practices	3
ECD 52	Childhood and Adolescence	3
ECD 56	Child Growth and Development	3
ECD 62	Child, Family and Community	3
ECD 79	Teaching in a Diverse Society	3
ENSC 10	Humans and the Environment	3
	or	
ENSC 11	Humans and the Environment with Laboratory	4
	or	
ENSC 12	Current Issues in Environmental Science	3
ES 3	Introduction to Muslim-American Studies	3
GEOG 1	Introduction to Physical Geography	3
GEOG 2	Cultural Geography	3
GEOG 5	World Regional Geography	3
GEOG 10	Global Environmental Problems	3
GEOG 12	Geography of California	3
GEOG 20	Introduction to Geographic Information Systems	3
HIS 3	World History: Beginnings to 1500	3
HIS 4	World History: 1500 to the Present	3
HIS 7	U.S. History Through Reconstruction	3
HIS 8	U.S. History Since Reconstruction	3
HIS 12	History of California	3
HIS 20	The African-American Experience in U.S. History Through Reconstruction	3
HIS 21	The African-American Experience in U.S. History Since Reconstruction	3
HIS 22	Mexican American History and Culture	3
HIS 25	American Indian History and Culture	3
HIS 27	U.S. Women's History	3
PHIL 50	God, Nature, Human Nature	3
PHIL 60	Introduction to Philosophy: Ethics	3
POSC 1	Introduction to American Government	3
POSC 10	Seminar in Comparative Politics	3
POSC 12	Introduction to California State and Local Government	3
POSC 20	Comparative Politics	3
POSC 25	Introduction to Political Theory	3
POSC 30	International Relations	3
PSY 1	General Psychology	3
PSY 2	Introduction to Psychological Methodology	3
PSY 3	Social Psychology	3
PSY 6	Abnormal Psychology	3

PSY 8	Human Sexuality	3
	or	
SOCI 8	Human Sexuality	3
PSCN 4	Multiethnic/Cultural Communication	3
PSCN 13	Multicultural Issues in Contemporary America	3
RELS 50	Religions of the World	3
SL 64	Beginning Sign Language	3
SOCI 1	Principles of Sociology	3
SOCI 2	Social Problems	3
SOCI 3	Introduction to Race and Ethnic Relations	3
SOCI 4	Marriage and Family Relations	3

General Education Courses

For specific General Education courses refer to catalog section on Graduation Requirements.

TOTAL UNITS **22 - 26**

ANTHROPOLOGY (ANTH)**1 BIOLOGICAL/PHYSICAL ANTHROPOLOGY 3 UNITS**

Humans as a biological species through the examination of fossil evidence for human evolution, behavior of nonhuman primates, and human evolutionary biology and genetics. Emphasis on uniquely human biological and behavioral characteristics, as well as those shared with other animals. Current anthropological issues such as the biological meaning of race, genetic diseases, and the influence of evolution on human behavior. Strongly Recommended: Eligibility for ENGL 1A. 3 hours lecture. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: ANTH 110

1L BIOLOGICAL/PHYSICAL ANTHROPOLOGY LABORATORY 1 UNIT

Laboratory activities and exercises developed as an adjunct to Anthropology 1 (Introduction to Biological/Physical Anthropology) including the identification of fossils through examination of fossil casts, the study of human artifacts, observation of primate behavior and structure, and problem-solving in case studies of human genetics. Prerequisite: ANTH 1 may be taken concurrently. Strongly Recommended: Eligibility for ENGL 1A. 3 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: ANTH 115L.

2 INTRODUCTION TO ARCHAEOLOGY 3 UNITS

This course is an introduction to the study of concepts, theories, data and models of anthropological archaeology that contribute to our knowledge of the human past. The course includes a discussion of the nature of scientific inquiry; the history and interdisciplinary nature of archaeological research; dating techniques; methods of survey, excavation, analysis, and interpretation; cultural resource management; professional ethics; and selected cultural sequences. This course may include a lab component. Strongly Recommended: Eligibility for ENGL 1A. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: ANTH 150.

3 SOCIAL AND CULTURAL ANTHROPOLOGY 3 UNITS

How human beings in different cultures meet basic biological, social and cultural needs, including kinship and marriage practices, political and social organization, economic institutions, religious and childrearing practices, social change, as well as other aspects of cultural behavior. Emphasis on understanding other cultures on their own terms. Includes the many subcultures making up North American populations. Strongly Recommended: Eligibility for ENGL 1A. 3 hours lecture. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: ANTH 120.

4 LANGUAGE AND CULTURE 3 UNITS

An introduction to the core concepts of linguistic anthropology and the study of language in culture and society, including how language perpetuates the identity of individuals through their social interactions and their culture in everyday speech events. Topics such as identity, social status, gender, race, and institutional power, are examined in contemporary language use. Traditional study of the methods of linguistic anthropologists as well as the study of the biological basis of communication and speech, the structure of language, language origins, language through time, language variation, the ethnography of communication, sociolinguistics, nonverbal communication and writing, and how cultural context sets meaning. Strongly Recommended: Eligibility for ENGL 1A. 3 hours lecture. Transfer: CSU; UC; CSU/GE; IGETC.

5 CULTURES OF THE U.S. IN GLOBAL PERSPECTIVE 3 UNITS

Issues relevant to understanding constructs of race, class, gender and culture in U. S. society from a global perspective. Factors affecting at least three major U.S. cultural communities (such as African American, Asian American, Latino American and others) including impacts of globalization, patterns of migration, permeability of cultural communities in the U.S., the cultural politics of identity and inclusion and exclusion, and other factors influencing modern U.S. society. Strongly Recommended: Eligibility for ENGL 1A. 3 hours lecture. Transfer: CSU; UC; CSU/GE; IGETC.

7 INTRODUCTION TO GLOBAL STUDIES 3 UNITS

This course is an introduction to the interdisciplinary field of Global Studies. Explores the current processes of "globalization" in the world today and the impact on people and societies. Examines conflicts arising out of competition over resources, the impact of wars, economic and environmental disruption and transnational migrations of people. Explores debates over globalization and the social movements that have arisen in response to the impact of globalization. Strongly Recommended: Eligibility for ENGL 1A. May not receive credit if Global Studies 1 has been completed. Transfer: CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).

8 NATIVE AMERICAN CULTURES 3 UNITS

Survey of the Native American cultures of North America from an anthropological perspective, including cultural developments from prehistory to the present. Emphasis on the great variety of Native American perspectives and traditions, including kinship, religion, political, social and economic institutions, and attitudes towards humans, animals, and nature. Current issues including movements for social and political justice and cultural survival. Strongly Recommended: Eligibility for ENGL 1A. 3 hours lecture. Transfer: CSU; UC; CSU/GE; IGETC.

12 MAGIC, RELIGION, WITCHCRAFT AND HEALING 3 UNITS

Cross-cultural perspectives on spirituality, religious practice, myth, ancestor beliefs, witchcraft and the variety of religious rituals and practitioners found in the cultures of the world. Examination of the cosmologies of different cultures through the anthropological perspective. Emphasis is placed on how knowledge of the religious practices and beliefs of others can help us to understand the multicultural world in which we live. Comparison of the ways in which diverse cultures confront the large and fundamental questions of existence: those dealing with the meaning of life, birth and death, and with the relationship of humans to each other and to their universe. Strongly Recommended: Eligibility for ENGL 1A. 3 hours lecture. Transfer: CSU; UC; CSU/GE; IGETC.

13 FORENSIC ANTHROPOLOGY 3 UNITS

Introduction to the recovery and interpretation of human physical remains within the medico-legal context. Major topics include identification of human skeletal and dental remains, sex determination, age at death, ancestry, stature, analysis and identification of different types of trauma and pathologies, post-mortem alteration, time since death, recovery techniques, and legal and ethical issues pertaining to the treatment of human remains in a forensic context. Strongly Recommended: Eligibility for ENGL 1A. 3 hours lecture. Transfer: CSU; UC; CSU/GE; IGETC.





APPRENTICESHIP

Apprenticeship programs offered in California provide women and men the opportunity to attend college credit courses while getting on-the-job training in their chosen field. These courses are usually provided by the apprenticeship’s program sponsor at an off-campus training facility. Courses are taught by journeyman level tradespeople who are also qualified college-level instructors.

Chabot College is presently the local education agency (LEA) for seven apprenticeship programs, including:

- **Automotive** – Automotive Repair and Machinists Trades - www.autoapprenticeship.com
- **Construction Trades** – Associated Builders and Contractors, San Diego - www.abcsd.org
- **Electrical** – Alameda County Electrical JATC - www.ibew595.org
- **Fire/Life Safety** – Western Burglar and Fire Alarm Association - www.wbfaa.net
- **Roofing** – Independent Roofing Contractors of California - www.ircc.org
- **Sprinkler Fitters** – Sprinkler Fitters U.A. Local 483 - www.sprinklerfitters483.org
- **Telecommunications** – Communications Workers of America, CWA District 9 - cwajtc@yahoo.com

Registered apprentices take required classes that cover a variety of occupation-related topics for the designated trade, and earn credit for classroom hours as well as on-the-job training hours. Apprenticeship programs vary in length from one year to six years.

To learn more about how you can “learn as you earn” by participating in an apprenticeship program, please contact the program sponsor listed by each trade above. Or, see our website www.TDSolutions.org for additional information about these apprenticeship programs. You may also contact MariAnn Fisher, Training and Development Solutions, Chabot-Las Positas Community College District at (925) 249-9372 or mfisher@clpccd.org for general questions about how apprenticeship programs might provide the career you are seeking.



ARCHITECTURE (ARCH)

DEGREE:

- AA—ARCHITECTURE
- AS—ARCHITECTURE

CERTIFICATE OF ACHIEVEMENT:

ARCHITECTURE TECHNOLOGY

ARCHITECTURE
ASSOCIATE IN ARTS DEGREE

PROGRAM-LEVEL OUTCOMES

1. Develop architectural and freehand.
2. Identify and explain the behavior appearance and use building materials.
3. Incorporate the basic Uniform Building Code requirements to construction drawings.
4. Describe and apply knowledge of the structural systems using wood, steel, masonry, and concrete.

YEAR ONE		UNITS
ARCH 2A	Architectural Drawing and Graphics I	3
ARCH 68	CAD for Architecture and Interior Design	3
ARCH 2B	Architectural Drawing and Graphics II	3
ARCH 33	3-D Modeling	3
ARCH 14	California Architecture and Urban Design	3

YEAR TWO		UNITS
ARCH 4A	Architectural Drafting Principles I	3
ARCH 8A	Fundamentals of Architectural Design I	4
ARCH 12	Construction Materials and Methods	3
ARCH 4B	Architectural Drafting Principles II	3
ARCH 8B	Fundamentals of Architectural Design II	4
ARCH 16	Landscape Architecture	2

For specific A.A. General Education courses refer to the catalog section on A.A. Graduation Requirements.

TOTAL UNITS **34**

ARCHITECTURE
ASSOCIATE IN SCIENCE DEGREE

PROGRAM-LEVEL OUTCOMES

1. Develop computer drafting skills.
2. Develop advanced presentation skills.
3. Apply the basic Uniform Building Code requirements to residential and commercial drawings.
4. Use wood, truss, steel, masonry, and concrete to apply to structural systems.



YEAR ONE		UNITS
ARCH 2A	Architectural Drawing and Graphics I	3
ARCH 68	CAD for Architecture and Interior Design	3
ARCH 2B	Architectural Drawing and Graphics II	3
ARCH 33	3-D Modeling	3

YEAR TWO		UNITS
ARCH 4A	Architectural Drafting Principles I	3
ARCH 8A	Fundamentals of Architectural Design I	4
ARCH 12	Construction Materials and Methods	3
ARCH 4B	Architectural Drafting Principles II	3
ARCH 8B	Fundamentals of Architectural Design II	4
ARCH 16	Landscape Architecture	2

General Education Units For A.S. Degree

For specific A.S. General Education courses refer to the catalog section on A.S. Graduation Requirements.

REQUIRED MAJOR SPECIFIC G.E. REQUIREMENT.

Complete a minimum of 3 units from the following.

	Units
ARCH 14 California Architecture and Urban Design	3

TOTAL UNITS 31

ARCHITECTURE TECHNOLOGY

CERTIFICATE OF ACHIEVEMENT

"The Chabot College Architecture Program is a well-established transfer program that prepares students to transfer into architecture programs at 4-year universities. Students may complete the program by earning an Associate of Arts (AA) or an Associate of Science (AS) degree in Architecture or transfer without a degree. Our program provides upgraded Building Information Modeling (B.I.M) computer labs and drafting studios with state-of-the-art computer drafting software for students to complete. Required courses cover design, drafting, building code, construction materials, interior design, graphics, 3-D modeling, urban design and landscape architecture.

CAREER OPPORTUNITIES IN ARCHITECTURE

The Chabot College Architecture Program also offers an Architecture Technology Certificate of Achievement that is designed to provide real-world, hands-on and industry-related experiences; students participate in field experiences where they visit local job sites in various stages of development to study design and construction.

PROGRAM-LEVEL OUTCOMES

1. Develop computer Rendering and drafting skills.
2. Develop advanced presentation skills in 3D forms and posters.
3. Incorporate Uniform Building Code requirements and City regulations to residential.
4. Use different materials such as wood, truss, steel, masonry, and concrete to apply to structural systems.

YEAR ONE		UNITS
ARCH 2A	Architectural Drawing and Graphics I	3
ARCH 14	California Architecture and Urban Design	3
ARCH 68	CAD for Architecture and Interior Design	3
ARCH 2B	Architectural Drawing and Graphics II	3
ARCH 4A	Architectural Drafting Principles I	3
ARCH 33	3-D Modeling	3

YEAR TWO		UNITS
ARCH 4B	Architectural Drafting Principles II	3
ARCH 8A	Fundamentals of Architectural Design I	4
ARCH 12	Construction Materials and Methods	3
ARCH 8B	Fundamentals of Architectural Design II	4
ARCH 16	Landscape Architecture	2
ARCH 80	Architecture Internship	2

TOTAL UNITS 36

ARCHITECTURE (ARCH)

2A ARCHITECTURAL DRAWING AND GRAPHICS I 3 UNITS

Introduction to freehand and mechanically constructed drawings employing orthographic, axonometric and linear perspective drawing systems to represent three-dimensional form and environments on two-dimensional surfaces. Emphasis on the understanding of basic drawing conventions, their implications and applications. 2 hours lecture, 4 hours laboratory. Transfer: CSU; UC.

2B ARCHITECTURAL DRAWING AND GRAPHICS II 3 UNITS

Continuation of the content and issues introduced in Architecture 2A plus the theories and methods for applying shadows, reflections, materials, entourage, and color in a variety of drawing types. Layout and integration of composite drawings in support of the process and presentation of architectural designs. Prerequisite: Architecture 2A (completed with a grade of "C" or higher). 2 hours lecture, 4 hours studio. Transfer: CSU; UC.

4A ARCHITECTURAL DRAFTING PRINCIPLES I 3 UNITS

Introduction to principles and practice of architectural drafting with emphasis on working drawings for wood frame construction; introduction to drafting concepts and conventions for architectural working drawings, basic building systems, and architectural applications of computer-aided drafting technology. Prerequisite: Architecture 68 (completed with a grade of "C" or higher). 2 hours lecture, 4 hours studio. Transfer: CSU.

4B ARCHITECTURAL DRAFTING PRINCIPLES II 3 UNITS

Continuation of Architecture 4A with emphasis on architectural working drawings for non-residential buildings with wood, masonry, steel and concrete structures. Application of advanced computer-aided drafting techniques for architectural construction documents will be reviewed, as will the use of electronic/web-based information sources, including Architectural Graphic Standards, Sweets Catalogs, and the Uniform Building Code. Prerequisite: Architecture 4A (completed with a grade of "C" or higher). 2 hours lecture, 4 hours studio. Transfer: CSU.

8A FUNDAMENTALS OF ARCHITECTURAL DESIGN I 4 UNITS

Introduction to the theories, principles, and methods of architectural design using traditional and digital media. Studio projects emphasize composing two- and three-dimensional organizations to convey intended concepts and meanings. Aesthetic, environmental, social, and technological factors which inform architectural design are investigated. Course work is supplemented with lectures, discussions, and readings. Prerequisite: Architecture 2B (completed with a grade of "C" or higher). 3 hours lecture, 3 hours studio. Transfer: CSU; UC.

8B FUNDAMENTALS OF ARCHITECTURAL DESIGN II 4 UNITS

Continuation of the content and issues introduced in Architecture 8A. Emphasis on generating and developing design concepts, incorporating structure, materials, and energy considerations as determinates of form. Emphasis on applied traditional and digital graphic communications tools, including scale models to convey intended concepts and meanings. Prerequisite: Architecture 8A (completed with a grade of "C" or higher). 3 hours lecture, 3 hours studio. Transfer: CSU; UC.

12 CONSTRUCTION MATERIALS AND METHODS 3 UNITS

Introduction to the methods and materials used in contemporary and historical building construction. Wood, steel, masonry, and concrete structural systems will be explored, as will major interior and exterior finish systems. The relationships between occupancy and construction types will be reviewed as will the influence of building codes, climate, labor supply, and economic factors. 2 hours lecture, 4 hours laboratory. Transfer: CSU.

14 CALIFORNIA ARCHITECTURE AND URBAN DESIGN 3 UNITS

California architecture and urban design from indigenous beginnings to the contemporary avant garde. Historic, cultural, and environmental influences on the shaping of California's distinctive buildings and cities. Work reviewed ranges from anonymous adobes to historic masterpieces by Maybeck and Morgan to new works by Gehry, Moss, and others. 3 hours. Transfer: CSU; UC; CSU/GE.

16 LANDSCAPE ARCHITECTURE 2 UNITS

Principles of landscape architecture emphasizing design concepts as they relate to site, building, and client requirements. Includes site analysis, land use patterns, circulation, layout, planting materials, irrigation, and the general design process. 1 hour lecture, 3 hours laboratory. Transfer: CSU; UC.

33 3-D MODELING 3 UNITS

Introduction to 3-dimensional digital modeling using 3-dimensional software. Emphasis on learning basic commands to create 3-dimensional objects including building interiors and exteriors, and defining photo-realistic views with appropriate light sources. 2 hours lecture, 4 hours studio. Transfer: CSU.

68 CAD FOR ARCHITECTURE AND INTERIOR DESIGN 3 UNITS

(See also Interior Design 68)

Introduction to computer-aided drafting. Topics include command basics including drawing entity creation and modification, industry layering standards, text and dimensioning systems appropriate to architecture, creating symbol libraries, external reference techniques, model and paper space commands, and plotting techniques. May not receive credit if Interior Design 68 has been completed. 2 hours lecture, 4 hours studio. Transfer: CSU.

80 ARCHITECTURAL PRACTICE 2 UNITS

Architecture Internship in Architecture department setting approved by Architecture faculty as related to student's architecture major or classes at Chabot. Cooperative effort between student and architecture firm supervisor to accomplish agreed upon work objectives and broaden experiences. Student provides verification of service experience hours during the term. Students will get an architecture firm approved by architecture faculty and make arrangements for hours and duties directly with architecture firm supervisor. Students will meet with architecture instructor one hour per week on campus for input and hands-on experience discussion focused on architecture firm structures, project procedures, design developments and construction documents. (Students must contact instructor prior to registering for this internship class). 1 hour lecture, 4 hours studio. Transfer: CSU.



ART (ART)

DEGREE:

AA-T-STUDIO ARTS

AA-ART (EMPHASIS IN CERAMICS)

AA-ART (EMPHASIS IN PAINTING)

AA-ART (EMPHASIS IN SCULPTURE)

AA-GRAPHIC DESIGN

CERTIFICATE OF PROFICIENCY:

DIGITAL DESIGN

GRAPHIC DESIGN

CERTIFICATE:

ILLUSTRATION

STUDIO ARTS

ASSOCIATE IN ARTS FOR TRANSFER DEGREE

The Associate in Arts in Studio Art for Transfer degree is designed for the student artist interested in transferring to a four year Studio Art program within the CSU system. Courses are offered in painting, drawing, ceramics, sculpture, photography, art history and digital technology. The Associate in Arts in Studio Arts for Transfer degree provides students with an opportunity to develop the techniques, visual sensibility, and historical understanding necessary for working with various art media. An understanding and exploration of the meanings and ideas generated by the things we make, and an awareness of the satisfaction inherent in the process of "the making," are essential parts of the program. The Associate in Arts in Studio Art for Transfer degree provides a solid basis for continuing work in upper division and graduate school and art-related fields such as Ceramist, Commercial Artist, Designer, Exhibition Designer, Art Critic/Writer, Art Director, Art Historian, and Art teaching

PROGRAM-LEVEL OUTCOMES

1. Demonstrate visual literacy and explain it in terms of the elements and principles of design.
2. Demonstrate an ability to work with media (drawing, painting, clay, etc.) of each discipline.

REQUIRED CORE (15 UNITS)

UNITS

ART 2A	Introduction to Drawing	3
ART 23	2-D Foundations	3
ART 24	3-D Foundations	3
ARTH 4	Art History-Ancient to Gothic	3
ARTH 5	Art History - Renaissance to Modern	3

List A: Studio Electives (9 units) Units

ART 3A	Figure and Composition I or	3
ART 2B	Drawing and Composition	3
ART 12A	Beginning Oil Painting or	3
ART 13A	Acrylic Painting - Beginning I	3
ART 16A	Introduction to Ceramics I	3
ART 17A	Beginning Sculpture 1	3
DIGM 31A	Photoshop I and	1.5
DIGM 32A	Illustrator I	1.5
PHOT 50	Introduction to Photography	3

Required Major Courses 24 units

CSU GE or IGETC (CSU) 37-39 units

(Possible double counting: 6 units)

CSU transfer Electives as needed to reach 60 CSU transferable units.

All courses in the major area of emphasis are required to have a grade of "C" or higher, and a cumulative GPA of 2.0 must be achieved.

TOTAL UNITS
24

ART (GENERAL)

ASSOCIATE IN ARTS DEGREE

PROGRAM-LEVEL OUTCOMES

1. Demonstrate visual literacy and explain it in terms of the elements and principles of design.
2. Demonstrate an ability to work with the media (drawing, painting, clay, etc.) of the discipline.

YEAR ONE

UNITS

ARTH 1	Introduction to Art	3
ART 2A	Introduction to Drawing	3
ART 23	2-D Foundations	3
ART 2B	Drawing and Composition	3
ART 17	Beginning Sculpture	3
ART 24	3-D Foundations	3

YEAR TWO

UNITS

ART 12A	Oil/Acrylic Painting - Beginning I	3
ART 3A	Figure and Composition I	3
ARTH 4	Art History-Ancient to Gothic	3
ARTH 5	Art History - Renaissance to Modern	3
ART 7A	Introduction to Watercolor Painting	3
ART 16A	Introduction to Ceramics I	3

General Education Courses

For specific A.A. General Education courses refer to catalog section on A. A. Graduation Requirements.

TOTAL UNITS
36



ART (EMPHASIS IN CERAMICS)

ASSOCIATE IN ARTS DEGREE

PROGRAM-LEVEL OUTCOMES

1. Demonstrate visual literacy and explain it in terms of the elements and principles of design.
2. Demonstrate an ability to work with the media (drawing, painting, clay, etc.) of the discipline.

YEAR ONE

UNITS

ARTH 1	Introduction to Art	3
ART 23	2-D Foundations	3
ART 16A	Introduction to Ceramics I	3
ART 16B	Introduction to Ceramics II	3

YEAR TWO

UNITS

ARTH 4	Art History-Ancient to Gothic	3
ART 16C	Introduction to Ceramics III	3
ARTH 5	Art History - Renaissance to Modern	3
ART 16D	Ceramics - Intermediate	3
ART 17	Beginning Sculpture	3

General Education Courses

For specific A. A. General Education courses refer to catalog section on A. A. Graduation Requirements.

TOTAL UNITS

27

ART (EMPHASIS IN PAINTING)

ASSOCIATE IN ARTS DEGREE

PROGRAM-LEVEL OUTCOMES

1. Demonstrate visual literacy and explain it in terms of the elements and principles of design.
2. Demonstrate an ability to work with the media (drawing, painting, clay, etc.) of the discipline.

YEAR ONE

UNITS

ARTH 1	Introduction to Art	3
ART 2A	Introduction to Drawing	3
ART 12A	Oil/Acrylic Painting - Beginning I	3
ART 3A	Figure and Composition I	3
ART 2B	Drawing and Composition	3
ART 12A	Beginning Oil Painting	3

YEAR TWO

UNITS

ARTH 4	Art History-Ancient to Gothic	3
ART 12C	Oil/Acrylic Painting - Advanced I	3
ART 23	2-D Foundations	3
ARTH 5	Art History - Renaissance to Modern	3
ART 12D	Oil/Acrylic Painting - Advanced II	3
ART 3B	Figure and Composition II	3
ART 7A	Introduction to Watercolor Painting	3

General Education Courses

For specific A.A. General Education courses refer to catalog section on A. A. Graduation Requirements.

TOTAL UNITS

39

ART (EMPHASIS IN SCULPTURE)

ASSOCIATE IN ARTS DEGREE

PROGRAM-LEVEL OUTCOMES

1. Demonstrate visual literacy and explain it in terms of the elements and principles of design.
2. Demonstrate an ability to work with the media (drawing, painting, clay, etc.) of the discipline.

YEAR ONE

UNITS

ARTH 1	Introduction to Art	3
ART 17	Beginning Sculpture	3
ART 23	2-D Foundations	3
ART 3A	Figure and Composition I	3
ART 18	Wood and Stone Sculpture	3
ART 24	3-D Foundations	3
ART 3B	Figure and Composition II	3

YEAR TWO

UNITS

ART 2A	Introduction to Drawing	3
ARTH 4	Art History-Ancient to Gothic	3
ART 20	All Media Sculpture	2
ART 22	Metal Sculpture - Lost Wax Bronze Casting	3
ARTH 5	Art History - Renaissance to Modern	3

General Education Courses

For specific A.A. General Education courses refer to catalog section A.A. Graduation Requirements.

TOTAL UNITS

35

DIGITAL DESIGN

CERTIFICATE OF PROFICIENCY

PROGRAM-LEVEL OUTCOMES

1. Create artistic concepts and themes in digital work.
2. Demonstrate strong craftsmanship (using industry standard software and technology) in creating digital work.

YEAR ONE

UNITS

ART 56	Graphic Design I	3
DIGM 31A	Photoshop I	1.5
DIGM 32A	Illustrator I	1.5
ART 58	Graphic Design II	3
DIGM 35A	Building a Web Site I	1.5



YEAR TWO		UNITS
ART 55	Intorduction to Graphic Design Careers	2
ART 45	Artist Portfolio and Self-Promotion	2
TOTAL UNITS		14.5

GRAPHIC DESIGN

ASSOCIATE IN ARTS DEGREE

The Graphic Design two-year diploma program provides students who have demonstrated artistic ability with practical, theoretical, and computer training in layout and design, preparation of reproduction art, printing processes, computer graphics, typography, and illustration. In addition to course assignments, students are involved in projects typical of the graphic design field.

CAREER OPPORTUNITIES IN DIGITAL MEDIA

Advertising agencies, web development businesses, product manufacturers, publishers, and retailers hire graphic designers, either as contract workers or employees. Most large organizations, no matter what industry they're in, have a graphic designer on staff.

PROGRAM-LEVEL OUTCOMES

1. Create artistic concepts and themes in digital work.
2. Demonstrate strong craftsmanship (using industry standard software and technology) in creating digital work.

YEAR ONE		UNITS
ART 56	Graphic Design I	3
DIGM 31A	Photoshop I	1.5
DIGM 32A	Illustrator I	1.5
ART 57	Graphic Design Internship	2
ART 58	Graphic Design II	3

YEAR TWO		UNITS
ART 55	Intorduction to Graphic Design Careers	2
ART 61	Illustration	3
ART 45	Artist Portfolio and Self-Promotion	2
ART 59	Graphic Design III	3

General Education Courses

For specific General Education courses refer to catalog section on Graduation Requirements.

TOTAL UNITS	21
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GRAPHIC DESIGN

CERTIFICATE OF PROFICIENCY

PROGRAM LEARNING OUTCOMES

1. Create artistic concepts and themes in digital work.
2. Demonstrate strong craftsmanship (using industry standard software and technology) in creating digital work.

YEAR ONE		UNITS
ART 56	Graphic Design I	3
DIGM 31A	Photoshop I	1.5
DIGM 32A	Illustrator I	1.5
ART 58	Graphic Design II	3

YEAR TWO		UNITS
ART 55	Intorduction to Graphic Design Careers	2
ART 59	Graphic Design III	3
ART 45	Artist Portfolio and Self-Promotion	2
TOTAL UNITS		16

ILLUSTRATION

CERTIFICATE

The Illustration Certificate includes course that focus on specific courses in illustration.

PROGRAM-LEVEL OUTCOMES

1. Create artistic concepts and themes in digital work.
2. Demonstrate strong craftsmanship (using industry standard software and technology) in creating digital work.

REQUIRED COURSES		UNITS
ART 2A	Introduction to Drawing	3
ART 55	Intorduction to Graphic Design Careers	2
ART 61	Illustration	3
ART 2B	Drawing and Composition	3
ART 45	Artist Portfolio and Self-Promotion	2
ART 54	Illustrating Children's Books	3
TOTAL UNITS		16

ART (ART)

2A INTRODUCTION TO DRAWING 3 UNITS
Skill development in black and white drawing using composition, light and shade, perspective and other basics applied to realism drawing. 2 hours lecture, 4 hours studio. Transfer: C-ID ARTS 110; CSU; UC.

2B DRAWING AND COMPOSITION 3 UNITS
Development of knowledge and skills introduced in Art 2A, emphasizing media and composition and realism drawing at an intermediate level. Introducing the use of color. Prerequisite: Art 2A (completed with a grade of "C" or higher). 2 hours lecture, 4 hours studio. Transfer: C-ID ARTS 205; CSU; UC.

2C INDIVIDUAL PROJECTS IN ACADEMIC REALISM DRAWING 3 UNITS

Individual project development for advanced drawers to create a related body of drawings in the style of academic realism. Concept definition and development to be determined by the student and approved by the instructor. Prerequisite: Art 2B (completed with a grade of "C" or higher). 2 hours lecture, 4 hours studio. Transfer: CSU.

**3A FIGURE AND COMPOSITION I****3 UNITS**

Fundamental skills, techniques and knowledge of art related to drawing of the human form using graphite, charcoal, ink, and conte crayon. Compare figurative compositions using the human form through design, master paintings, verbal and written descriptions, and critiques. Awareness of the creative process as it applies to anatomical analysis by class drawings, anatomy assignments, and figurative compositions which require the student to explore drawing techniques, compose, and evaluate drawings. Open to any student, no drawing experience required. 2 hours lecture, 4 hours studio. Transfer: CSU; UC; C-ID: ARTS 200.

3B FIGURE AND COMPOSITION II**3 UNITS**

Continued development of knowledge and skills introduced in Art 3A. Emphasis on composition and color and different figurative design elements during the drawing of the human form. Strongly recommended: Art 3A (completed with a grade of "C" or higher). 2 hours lecture, 4 hours studio. Transfer: CSU; UC.

3C FIGURE AND COMPOSITION III**3 UNITS**

Continued development of knowledge and skills further developed in Art 3B. Emphasis on composition and color and different figurative design elements during the drawing of the human form. Drawing elements stressing emotions and expressions. Strongly recommended: Art 3B (completed with a grade of "C" or higher). 2 hours lecture, 4 hours studio. Transfer: CSU; UC.

3D FIGURE AND COMPOSITION IV**3 UNITS**

Continued development and skills further developed in Art 3C. Emphasis on composition and color and different figurative design elements during the drawing of the human form. Drawing elements stressing individual philosophies and expressions. Strongly recommended Art 3C (completed with a grade of "C" or higher). 2 hours lecture, 4 hours studio. Transfer: CSU; UC.

7A INTRODUCTION TO WATERCOLOR PAINTING**3 UNITS**

The student will learn materials, methods, techniques and watch demonstrations of transparent watercolor painting, including its effects and possibilities. The student will work with the instructor to maximize watercolor painting skills during class and at home. Strongly recommended: Art 2A. 2 hours lecture, 4 hours studio. Transfer: CSU; UC.

7B INTERMEDIATE WATERCOLOR PAINTING**3 UNITS**

Continued development of knowledge and techniques introduced in Art 7A. Emphasis on various intermediate watercolor techniques that produce different types of watercolor paintings that advance the student's skills. Strongly recommended: Art 7A (completed with a grade of "C" or higher). 2 hours lecture, 4 hours studio. Transfer: CSU; UC.

7C ADVANCED WATERCOLOR PAINTING I**3 UNITS**

Builds upon the skills and techniques introduced in Art 7B, so that the student can solve composition problems as well as begin to utilize personal expressions. Emphasizes composition, concept and visualization skills. Strongly recommended: Art 7B. 2 hours lecture, 4 hours studio. Transfer: CSU; UC.

7D ADVANCED WATERCOLOR PAINTING II**3 UNITS**

Continued development of skills and techniques introduced in Art 7C directed towards individual needs. Student artist is directed to develop personalized imagery and begin to settle on individual techniques. Strongly recommended: Art 7C. 2 hours lecture, 4 hours studio. Transfer: CSU; UC.

12A BEGINNING OIL PAINTING**3 UNITS**

Projects in oil painting with and emphasis on fundamental painting techniques and approaches. 2 hours lecture, 4 hours laboratory. Transfer: C-ID ARTS 210; CSU; UC.

12B INTERMEDIATE OIL PAINTING**3 UNITS**

Advanced projects in oil painting with an emphasis on individual creative work and development of personal ideas and style. Prerequisite: Art 12A. 2 hours lecture, 4 hours laboratory. Transfer: CSU; UC.

12C ADVANCED OIL PAINTING**3 UNITS**

Continued development of advanced projects in oil painting with emphasis on individual creative work and development of personal ideas and style. Prerequisite: Art 12B. 2 hours lecture, 4 hours laboratory. Transfer: CSU; UC.

12D ADVANCED OIL PAINTING II**3 UNITS**

Advanced projects in oil painting with emphasis on individual creative work and development of personal ideas and style. Prerequisite: Art 12C. 2 hours lecture, 4 hours laboratory. Transfer: CSU; UC.

13A ACRYLIC PAINTING—BEGINNING I**3 UNITS**

Projects in acrylic painting with an emphasis on fundamental painting techniques and approaches. Strongly recommended: Art 2A. 2 hours lecture, 4 hours studio. Transfer: C-ID ARTS 210; CSU; UC.

13B ACRYLIC PAINTING—BEGINNING II**3 UNITS**

Projects in acrylic painting with an emphasis on fundamental painting techniques and approaches. Prerequisite: Art 13A (completed with a grade of "C" or higher). 2 hours lecture, 4 hours studio. Transfer: CSU; UC.

13C ACRYLIC PAINTING—ADVANCED I**3 UNITS**

Advanced projects in acrylic painting with emphasis on individual creative work and development of personal ideas and style. Prerequisite: Art 13B (completed with a grade of "C" or higher). 2 hours lecture, 4 hours studio. Transfer: CSU; UC.

**13D ACRYLIC PAINTING—ADVANCED II 3 UNITS**

Advanced projects in acrylic painting with emphasis on individual creative work and development of personal ideas and style. Prerequisite: Art 13C (completed with a grade of "C" or higher). 2 hours lecture, 4 hours studio. Transfer: CSU; UC.

16A INTRODUCTION TO CERAMICS I 3 UNITS

Instruction in the fundamental techniques of wheel-thrown and hand-constructed clay forms. Survey of clay and glaze materials and reaction to fire will be included. Methods of decorating using glazes will be introduced. Influence of Eastern and Western contemporary and historical works and the students' creations. Formulate personal creative process, including inspiration, experimentation, and evaluation. Designed for art majors as well as general education students. 2 hours lecture, 1 hours laboratory. Transfer: CSU; UC.

16B INTRODUCTION TO CERAMICS II 3 UNITS

Further development of the technical skills of wheel thrown and hand constructed clay forms. Exploration of surface decoration, using various glazing techniques and methods of slip decoration is continued. Designed for art majors as well as general education students. Prerequisite: Art 16A (completed with a grade of "C" or higher). 2 hours lecture, 4 hours studio. Transfer: CSU; UC.

16C INTRODUCTION TO CERAMICS III 3 UNITS

Introduction of intermediate technical skills of throwing forms on the wheel with emphasis on the creative expression of the form. Kiln loading and firing procedure and process introduction. Continued development of various hand construction techniques of clay forms. Prerequisite: Art 16B (completed with a grade of "C" or higher). 2 hours lecture, 4 hours studio. Transfer: CSU; UC.

16D CERAMICS—INTERMEDIATE 3 UNITS

Intermediate technical skills of wheel-thrown and hand-constructed clay forms. Glaze exploration and experimentation. Exploration in the history of contemporary ceramic art and masters. Prerequisite: Art 16C (completed with a grade of "C" or higher). 2 hours lecture, 4 hours studio. Transfer: CSU; UC.

16E INDIVIDUAL PROJECTS IN CERAMICS 3 UNITS

Project development for Advanced Potters. Concept definition and development. Creation of a coherent body of work expressing an individual style. Refinement of techniques and skills acquired in previous courses. Individual critiques. Prerequisite: Art 16D (completed with a grade of "C" or higher). 2 hours lecture, 4 hours studio. Transfer: CSU.

17A BEGINNING SCULPTURE I 3 UNITS

Construction methods in clay through design of three dimensional and relief sculptures. Includes an introduction to ceramic art history and fundamentals of ceramic glaze and firing technology. Elements and principles of three dimensional design are emphasized in oral and written critiques. Designed for art majors as well as general education students. 2 hours lecture, 4 hours laboratory. Transfer: CSU; UC.

17B BEGINNING SCULPTURE II 3 UNITS

Further development of the technical skills of three dimensional sculpture and bas relief. Development of style in surface decoration, using various glazing techniques and methods of slip decoration are continued. Designed for art majors as well as general education students. Prerequisite: ART 17A (completed with a grade of "C" or higher). 2 hours lecture, 4 hours laboratory. Transfer: CSU; UC.

18A WOOD AND STONE SCULPTURE I 3 UNITS

Design and carve Bas-relief sculptures, using subtractive methods in wood and stone. Includes an introduction to art history and fundamentals of pneumatic (air power) technology. Elements and principles of three-dimensional design are emphasized in oral and written critiques. Designed for art majors as well as general education students. 2 hours lecture, 4 hours studio.. Transfer: CSU; UC.

18B WOOD AND STONE SCULPTURE II 3 UNITS

An intermediate course in the Design and carving of more advanced 3-dimensional sculptures, using subtractive methods in wood and stone. Includes care and maintenance of pneumatic (air power) technology. Elements and principles of three-dimensional design are emphasized in oral and written critiques. Designed for art majors as well as general education students. Prerequisite: ART 18A (completed with a grade of "C" or higher). 2 hours lecture, 4 hours laboratory. Transfer: CSU; UC.

20 ALL MEDIA SCULPTURE 3 UNITS

Concentrated individual studies in sculpture, designed to provide opportunity for continued investigation in the possibilities of a particular sculptural medium for the purpose of creating individual expression. Strongly Recommended: ART 17 (completed with a grade of "C" or higher). 2 hours lecture, 4 hours laboratory. Transfer: CSU; UC.

21 INDIVIDUAL PROJECTS IN CERAMIC SCULPTURE 3 UNITS

Projects in Ceramic Sculpture for intermediate to advanced students. Building on previous knowledge and skills acquired from previous assignments in Beginning Sculpture, students will produce artwork that expresses their individual styles. Strongly Recommended: ART 17A (completed with a grade of "C" or higher). 2 hours lecture, 4 hours laboratory. Transfer: CSU.

22 METAL SCULPTURE—LOST WAX BRONZE CASTING 3 UNITS

Comprehensive introduction to various metal sculpture processes. Mold-making techniques for casing bronze, aluminum, as well as basic welding. Emphasis on 3-dimensional design quality, craftsmanship, and subject matter, with research in the history of traditional and contemporary sculpture. 2 hours lecture, 4 hours studio. Transfer: CSU.

23 2-D FOUNDATIONS**3 UNITS**

Introduction to the concepts, applications, and historical/multicultural references related to two-dimensional art and composition, including the study and analysis of the basic principles and elements of line, shape, texture, value, color and spatial illusion. Development of a visual vocabulary for creative expression through lecture presentations, studio projects, problem solving and written assignments. (May not receive credit if Art 10 has been completed.) 2 hours lecture, 4 hours studio. Transfer CSU; UC; C-ID: ARTS 100. (UC credit/unit limitations may apply).

24 3-D FOUNDATIONS**3 UNITS**

Introduction to the concepts, applications, and historical references related to three-dimensional design and spatial composition, including the study of the elements and organizing principles of design as they apply to three-dimensional space and form. Development of a visual vocabulary for creative expression through lecture presentations and use of appropriate materials for three-dimensional studio projects. 2 hours lecture, 4 hours studio. Transfer: CSU; UC; C-ID: ARTS 101.

45 ARTIST PORTFOLIO AND SELF-PROMOTION 2 UNITS

Development of an artist's portfolio and strategies for self-promotion of ideas and skills effectively in the working art world. Includes use of effective techniques of presentation. 2 hours lecture, 1 hour studio. 2 hours lecture, 1 hour studio. Transfer: CSU.

48 PERSPECTIVE DRAWING**3 UNITS**

Theory and practice of perspective in drawing and painting. Includes history, concepts and uses of perspective as it applies to all two-dimensional surfaces. 2 hours lecture, 4 hours studio. Transfer: CSU; UC.

54 ILLUSTRATING CHILDREN'S BOOKS**3 UNITS**

Creation of two different children's books in any medium. Overview of the field of illustrating children's books. The relationship between words and images, page layout, character development, and illustration styles. Illustrate existing books or students' own stories. 2 hours lecture, 4 hours studio. Transfer: CSU.

55 INTRODUCTION TO GRAPHIC DESIGN CAREERS**2 UNITS**

Presentation of artwork by design specialists and instructor highlighting a variety of careers in the graphic design industry. Speakers may include designers, art directors, illustrators, photographers and others in the graphic design industry. 2 hours. Transfer: CSU.

57 GRAPHIC DESIGN INTERNSHIP**2 UNITS**

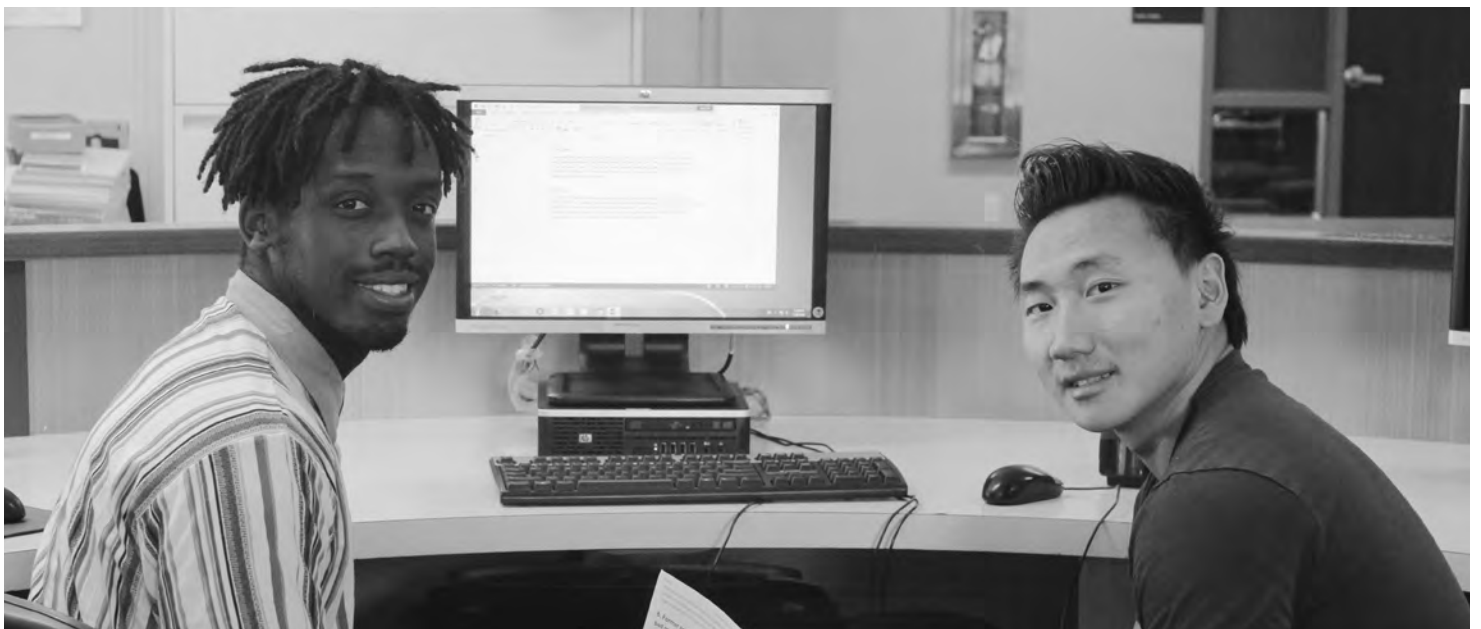
Work experience in a graphic design studio or related environment. To be approved by the instructor and employer. Work time and hours are to be arranged by the employer and student. Position may be paid or unpaid. Prerequisite: Art 56 (completed with a grade of "C" or higher). 7 hours studio. Transfer: CSU.

61 ILLUSTRATION**3 UNITS**

Creation and execution of conceptual ideas in illustration. Includes a variety of mediums and contemporary application styles. Emphasis on skills in traditional draftsmanship, craftsmanship and presentation. 2 hours lecture, 4 hours studio. Transfer: CSU.

200 INTRODUCTION TO DRAWING AND PAINTING NON-CREDIT

Individualized program of drawing and painting for residents in skilled-nursing facilities. Application of basic principles of composition, color, and line. Study of artistic practices of diverse cultures, including African design principles and European painting. 3 hours.



ART HISTORY (ARTH)

DEGREE:

AA-ART HISTORY

Art History involves the analysis of form, historical context, and meaning in visual images from prehistory to today. Because humans make images to communicate the breadth and depth of human experience, art historical inquiry can lead to a consideration of varied subjects, including cultural, ethnic, social, religious, economic, and political topics, in addition to artistic and aesthetic ones. The Art History AA serves students seeking to enrich their cultural backgrounds, solidify their knowledge of history, develop analytical and writing skills, sharpen critical sensibilities, and prepare for opportunities in museums, galleries, historical societies, and more. The Art History major is particularly well-suited to those students considering themselves to be visual learners.

CAREER OPPORTUNITIES IN ART HISTORY

Art History, like History, is a long-recognized component of breadth education for its role in helping to ensure a well-educated citizenry and, by extension, a functional democracy. As such, preparation of students for particular positions in the job market is of secondary importance to the field. However, in our rapidly changing global economy, the skills associated with arts-based learning--of which Art History is the recognized core--are now seen by many employers as mandatory for market success, and the "decades-long erosion of the arts in our educational system" has been blamed for causing "a major threat to America's global competitiveness." (Lynch, R.L., 2008). Because the Chabot Art History AA combines academic arts-based learning with career-oriented hands-on training in an actual gallery setting, graduates will be well-positioned to move into the general workforce on the basis of the creative and innovative thinking engendered by Art History. However, they will be particularly well-suited to take up roles within art museums and art galleries. According to the Bureau of Labor Statistics, career opportunities for museum technicians--including archivists, registrars, preparators, etc.--are projected to increase by 26 percent between now and 2018. Career opportunities for curators will increase 23 percent. And in line with these growing opportunities, the Chabot Art History AA will prepare students for opportunities in these growing areas: Art museum and art gallery preparator; Art museum and art gallery registrar; Art museum and art gallery educator; Art museum and art gallery archivist; Art museum and art gallery researcher; Art gallery sales; Art museum curatorial assistant; Historical Society/Historical House educator; Historical Society/Historica House researcher; Historical Society/Historical House archivist; Historical Society/Historical House registrar; Redevelopment agency staff.

PROGRAM-LEVEL OUTCOMES

1. Develop the ability to interpret artistic content through the analysis of subject matter and form.
2. Acquire a critical understanding of art in historical eras that accounts for changing cultural frameworks over time.

REQUIRED CORE (16.5 UNITS)

CORE COURSES

		UNITS
ARTH 4	Art History-Ancient to Gothic	3
ARTH 5	Art History - Renaissance to Modern	3
ARTH 6	Art History - Twentieth-Century Art	3
ARTH 50A	Introduction to Museum and Gallery Techniques	3
ARTH 51A	Introduction to Museum Studies	4.5

List A (choose one of the following) (3 units)

ART 2A	Introduction to Drawing	3
	or	
ART 16A	Introduction to Ceramics I	3
	or	
ART 17A	Beginning Sculpture 1	3
	or	
PHOT 50	Introduction to Photography	3

List B (choose one of the following) (3 units)

ARTH 7	Multicultural History of American Art	3
	or	
ARTH 20	History of Photography	3

List C (choose one of the following) (3 units)

HUMN 50	The Artful Life	3
	or	
HUMN 60	Creativity and the Community	3
	or	
HIS 2	History of Western Civilization Since 1600	3
	or	
HIS 5	Critical Thinking in History	3
	or	
ANTH 3	Social and Cultural Anthropology	3
	or	
ANTH 5	Cultures of the U.S. in Global Perspective	3

General Education Courses: For specific General Education courses refer to catalog section on Graduation Requirements.

TOTAL UNITS

25.5





ART HISTORY (ARTH)

1 INTRODUCTION TO ART 3 UNITS

Architecture, sculpture, painting, photography and design in relation to human inventiveness in providing for material and aesthetic needs; orientation to contemporary and historic art forms and principles. (Formerly ART 1; may not receive credit if ART 1 has been completed.) 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

4 ART HISTORY—ANCIENT TO GOTHIC 3 UNITS

History of Western art from prehistoric times through Egyptian, Mesopotamian, Aegean, Greek, Etruscan, Roman, Early Christian, Byzantine, Medieval, Romanesque, and Gothic civilizations. (Formerly ART 4; may not receive credit if ART 4 has been completed.) 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: ARTH 110.

5 ART HISTORY—RENAISSANCE TO MODERN 3 UNITS

History of Western art from Early Renaissance through High Renaissance, Mannerism, Baroque, Neoclassicism, Romanticism, Realism, Impressionism, Post-Impressionism, and 20th Century developments of American art. (Formerly ART 5; may not receive credit if ART 5 has been completed.) 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

6 ART HISTORY—TWENTIETH-CENTURY ART 3 UNITS

History of significant Modern, Postmodern and Contemporary art movements. Lectures include discussions of works made in various media by well-known and lesser-known makers, including women artists, non-western artists, and artists of color. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

7 MULTICULTURAL HISTORY OF AMERICAN ART 3 UNITS

A multicultural survey of American art from 1800 to the present. Special emphasis on art objects created by Native American, Asian American, African American, and Hispanic/Latino artists and artisans. Considers how art objects express the maker's identity within the specific historical, social, and political circumstances of his or her life. Addresses how male and female artists and artisans from these groups have used various art forms to assert their gender and ethnic identity in response to historical change. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

8 NON-WESTERN ART 3 UNITS

A broad survey of art offering a rich visual encounter with the cultural and historical heritage of Africa, Asia, Oceania, and the Americas. Introduces cultural perspectives developed outside the Western (European) tradition and provides students with a multi-cultural, global perspective of the visual arts. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

20 HISTORY OF PHOTOGRAPHY 3 UNITS

(See also Photography 20)

A broad chronological survey of photography from its invention to the present. Considers the medium's dual role as technology and art. Addresses a multiplicity of photographic themes and purposes. Considers the intersections of photography and technology, history, art, and everyday life. (May not receive credit if Photography 20, Photography 67, or Art 67 has been completed.) 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

50A INTRODUCTION TO MUSEUM AND GALLERY TECHNIQUES 3 UNITS

Learn the display of visual art within a museum/gallery space. Meet artists from the Bay Area and beyond, learn the meaning behind their art work, and gain hands-on practice in a range of activities covering the presentation, handling and security of original artwork in the Chabot Art Gallery. 2 hours lecture, 3 hours laboratory.

50B MUSEUM AND GALLERY TECHNIQUES 3 UNITS

Further practice in the display of visual art in a museum/gallery setting. Converse with artists from the Bay Area and beyond, learn the meaning behind their artwork, and gain hands-on, advanced practice in a range of activities covering the presentation, handling, and security of original artwork in the Chabot Art Gallery. 2 hours lecture, 3 hours laboratory. Transfer: CSU. Prerequisite: ARTH 50 (completed with a grade of "C" or higher or ARTH 50A (completed with a grade of "C" or higher)

51A INTRODUCTION TO MUSEUM STUDIES 4.5 UNITS

Introduction to museum history, theory, and practice. History and theory components are lecture-based; practice component involves hands-on instruction in museum and gallery skills, culminating in the hanging of the Chabot student art show. Held in the Chabot Art Gallery with one to two field trips to local museums, galleries and/or historical societies. May not be taken for credit if Art History 51 has been completed. 3 hours lecture, 5 hours laboratory. Transfer: CSU; CSU/GE.

51B MUSEUM STUDIES 4.5 UNITS

Further experience in museum and gallery skills, culminating in the hanging of the Chabot student art show, while aiding beginning Museum Studies students. Held in the Chabot Art Gallery with one to two field trips to local museums, galleries and/or historical societies. Prerequisite: ARTH 51 (completed with a grade of "C" or higher) or , ARTH 51A (completed with a grade of "C" or higher). 3 hours lecture, 5 hours laboratory. Transfer: CSU.

ASTRONOMY (ASTR)

PROGRAM-LEVEL OUTCOMES

1. Understand and apply key principles of astronomy using applicable vocabulary; including employing the scientific method to organize, prioritize, and problem solve. Astronomy (10, 20).
2. Demonstrate knowledge of explaining how and where the human species fits into the immense, complex and ever-changing universe. Astronomy (10, 20).
3. Understand and apply key principles of observational and theoretical astronomy using applicable vocabulary and relating them to hands-on laboratory activities; including employing the scientific method to organize, prioritize, and problem solve.

10 INTRODUCTION TO ASTRONOMY: THE SOLAR SYSTEM 3 UNITS

Introduction to history and physical principles of astronomy, focusing on our Solar System. Includes: constellations; distance scales; historical development of astronomy; gravitation; motion of the Earth, Moon, and Planets; astronomical tools; formation and evolution of the solar system; physical properties, atmosphere, and evolution of the Earth, Moon, and planets within the solar system; asteroids, comets, and other small bodies; discovery of extra-solar planets; possibilities for life beyond Earth. Designed for non-majors in mathematics or physical science. A companion science lab, Astronomy 30, is also available. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

20 INTRODUCTION TO ASTRONOMY: STARS AND THE UNIVERSE 3 UNITS

Introduction to the study of stars, galaxies, and cosmology. Includes the nature of light and matter, telescopes, spectroscopy, stellar formation and evolution, galaxies, quasars, and cosmology. Designed for non-majors in mathematics or a physical science. A companion science lab, Astronomy 30, is also available. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

30 INTRODUCTION TO ASTRONOMY LAB 1 UNIT

Introduction to laboratory principles and techniques in astronomy. Includes telescope operation and measuring stellar magnitudes, spectral lines, motions of the sun, moon and planets. Prerequisite: Astronomy 10 or 20. 3 hours laboratory. Transfer: CSU; UC, CSU/GE; IGETC.

AUTOMOTIVE TECHNOLOGY (ATEC)

DEGREE:

AS—AUTOMOTIVE TECHNOLOGY

AS—AUTOMOTIVE TECHNOLOGY
(EMPHASIS IN BMW MANUFACTURE TRAINING)

CERTIFICATE OF ACHIEVEMENT:

AUTOMOTIVE MAINTENANCE TECHNOLOGY

AUTOMOTIVE CHASSIS TECHNOLOGY

AUTOMOTIVE DRIVETRAIN TECHNOLOGY

AUTOMOTIVE ENGINE PERFORMANCE TECHNOLOGY

AUTOMOTIVE SERVICE CONSULTING

BMW MANUFACTURE TRAINING

HYBRID AND ALTERNATIVE FUEL VEHICLES.

The automotive technology program prepares the student for employment in many areas of the automotive field, including dealerships, independent garages, fleet shops, service stations, and specialty shops. Students enrolling in the curriculum of automotive mechanics will have the opportunity to receive instruction and “hands-on” experience in all areas of mechanical and electrical diagnostic systems and repair of current automobiles.

Automotive courses meet the needs of the beginner, the mechanic who wants to update skills and the do-it-yourself person. The automotive programs may also help students enter the automotive field in positions other than automotive technician.

AUTOMOTIVE TECHNOLOGY

ASSOCIATE IN SCIENCE DEGREE

The Automotive Technology Degree involves completing the core Curriculum plus any one of the following Certificates: Automotive Engine Performance Technology, Automotive Drivetrain Technology, Automotive Chassis Technology, or Automotive Maintenance Technology and the General Education requirements. Only one A.S. Degree in Automotive Technology may be earned.

PROGRAM-LEVEL OUTCOMES

1. Demonstrate the expertise needed to perform vehicle maintenance, service, diagnosis, and repair of current vehicles.
2. Demonstrate the ability to perform automotive operations in a timely and professional manner with limited supervision.
3. Demonstrate an ethical code conforming to the highest standards of the automotive industry.



YEAR ONE		UNITS
ATEC 50	Introduction to Automotive Technology	3
ATEC 5 **	Automotive Braking Systems	3
ATEC 6A *	Automotive Electrical and Electronic Fundamentals	4
ATEC 4	Automotive Suspension and Steering	3
ATEC 6B *	Automotive Electrical and Electronic Systems	3

YEARTWO		UNITS
ATEC 1	Automotive Engines	4
ATEC 3	Automotive Manual Transmissions and Transaxles	3
Emphasis options (Select from the emphasis option list above)		4-21

General Education Units For A.S. Degree Units

For specific A.S. General Education courses refer to catalog section on A.S. Graduation Requirements.

REQUIRED MAJOR SPECIFIC G.E. REQUIREMENT. Complete a minimum of 3 units from the following.

	Units
INDT 74 Measurements and Calculations	3

The courses marked below are recommended as preparation for the following California State and BAR tests for:

- * Smog Check Technician License
- ** Brake Adjusters License
- *** Air Conditioning Refrigeration Recovery and Recycling Certification

Emphasis 1 - Maintenance, add:		Units
ATEC 8 *	Automotive Air and Fuel Delivery Systems	4
ATEC 2	Automotive Automatic Transmissions and Transaxles	3
ATEC 7 ***	Automotive Heating and Air Conditioning Systems	2.5
ATEC 10 *	Automotive Advanced Engine Performance	3
ATEC 90	Hybrid Vehicle Operation and Servicing	2
ATEC 91	Hybrid Diagnosis and Alternate Fuels Technology	2

Emphasis 2 - Chassis, add:		Units
ATEC 90	Hybrid Vehicle Operation and Servicing	2
ATEC 91	Hybrid Diagnosis and Alternate Fuels Technology	2

Emphasis 3 - Drivetrain, add:		Units
ATEC 2	Automotive Automatic Transmissions and Transaxles	3
ATEC 7 ***	Automotive Heating and Air Conditioning Systems	2.5
ATEC 8 *	Automotive Air and Fuel Delivery Systems	4
ATEC 90	Hybrid Vehicle Operation and Servicing	2
ATEC 91	Hybrid Diagnosis and Alternate Fuels Technology	2

Emphasis 4 - Engine Performance, add:		Units
ATEC 7 ***	Automotive Heating and Air Conditioning Systems	2.5
ATEC 8 *	Automotive Air and Fuel Delivery Systems	4
ATEC 10 *	Automotive Advanced Engine Performance	3
ATEC 80 *	California Emissions Testing Technician Training Course	7.5
ATEC 90	Hybrid Vehicle Operation and Servicing	2
ATEC 91	Hybrid Diagnosis and Alternate Fuels Technology	2

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS **27 - 44**

**AUTOMOTIVE TECHNOLOGY
(EMPHASIS IN BMW MANUFACTURE TRAINING)**

ASSOCIATE IN SCIENCE DEGREE

This program prepares students for employment as entry-level automotive technicians. Students may also earn BMW of North America training credit in several different areas. Successful completion of the Associate in Science Degree can enhance the placement level at BMW dealerships across the nation.

PROGRAM-LEVEL OUTCOMES

1. Demonstrate the expertise needed to perform vehicle maintenance, service, diagnosis, and repair of current BMW vehicles, and the confidence to perform automotive operations in a timely and professional manner with limited supervision.
2. Demonstrate an ethical code conforming to the highest standards of the automotive industry.

YEAR ONE		UNITS
BMW 10	BMW Technical Systems	5
ATEC 50	Introduction to Automotive Technology	3
ATEC 5 **	Automotive Braking Systems	3
ATEC 6A *	Automotive Electrical and Electronic Fundamentals	4
BMW 20	BMW Body Electronics	5
ATEC 4	Automotive Suspension and Steering	3
ATEC 7 ***	Automotive Heating and Air Conditioning Systems	2.5

YEAR TWO		UNITS
BMW 30	BMW Chassis Dynamics	5
ATEC 1	Automotive Engines	4
ATEC 8 *	Automotive Air and Fuel Delivery Systems	4
BMW 40	BMW Engine Electronics and Engine Technology	5
ATEC 90	Hybrid Vehicle Operation and Servicing	2
ATEC 91	Hybrid Diagnosis and Alternate Fuels Technology	2

General Education Requirements for the A.S. Degree.

For specific A.S. General Education courses refer to catalog section on A.S. Graduation Requirements.

REQUIRED MAJOR SPECIFIC G.E. REQUIREMENT. Complete a minimum of 3 units from the following.

	Units
INDT 74 Measurements and Calculations	3

The courses marked above are recommended as preparation for the following California State and BAR tests for:

- * Smog Check Technician License
- ** Brake Adjusters License
- *** Air Conditioning Refrigeration Recovery and Recycling Certification

TOTAL UNITS **47.5**



AUTOMOTIVE MAINTENANCE TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

PROGRAM-LEVEL OUTCOMES

1. Demonstrate the expertise needed to perform vehicle maintenance, service, diagnosis, and repair of current vehicles.
2. Demonstrate the ability to perform automotive operations in a timely and professional manner with limited supervision.
3. Demonstrate an ethical code conforming to the highest standards of the automotive industry.

YEAR ONE	UNITS
ATEC 50 Introduction to Automotive Technology	3
ATEC 5 ** Automotive Braking Systems	3
ATEC 6A * Automotive Electrical and Electronic Fundamentals	4
ATEC 4 Automotive Suspension and Steering	3
ATEC 6B * Automotive Electrical and Electronic Systems	3

YEAR TWO	UNITS
ATEC 8 * Automotive Air and Fuel Delivery Systems	4
ATEC 7 *** Automotive Heating and Air Conditioning Systems	2.5
ATEC 10 * Automotive Advanced Engine Performance	3

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

These courses are recommended as preparation for the following California State and BAR tests for:
 * Brake Adjusters License
 *** Air Conditioning Refrigeration Recovery and Recycling Certification

TOTAL UNITS **25.5**

AUTOMOTIVE CHASSIS TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

PROGRAM-LEVEL OUTCOMES

1. Demonstrate the expertise needed to perform vehicle maintenance, service, diagnosis, and repair of current vehicles.
2. Demonstrate the ability to perform automotive operations in a timely and professional manner with limited supervision.
3. Demonstrate an ethical code conforming to the highest standards of the automotive industry.

REQUIRED CORE	UNITS
ATEC 50 Introduction to Automotive Technology	3
ATEC 5 ** Automotive Braking Systems	3
ATEC 6A * Automotive Electrical and Electronic Fundamentals	4
ATEC 4 Automotive Suspension and Steering	3
ATEC 6B * Automotive Electrical and Electronic Systems	3

These courses are recommended as preparation for the following California State and BAR tests for:
 ** Brake Adjusters License
 * Smog Check Technician License

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS **16**

AUTOMOTIVE DRIVETRAIN TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

PROGRAM-LEVEL OUTCOMES

1. Demonstrate the expertise needed to perform vehicle maintenance, service, diagnosis, and repair of current vehicles.
2. Demonstrate the ability to perform automotive operations in a timely and professional manner with limited supervision.
3. Demonstrate an ethical code conforming to the highest standards of the automotive industry.

REQUIRED COURSES	UNITS
ATEC 50 Introduction to Automotive Technology	3
ATEC 3 Automotive Manual Transmissions and Transaxles	3
ATEC 6A * Automotive Electrical and Electronic Fundamentals	4
ATEC 2 Automotive Automatic Transmissions and Transaxles	3
ATEC 6B * Automotive Electrical and Electronic Systems	3

These courses are recommended as preparation for the following California State and BAR tests for:
 *Smog Check Technician License

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS **16**

These courses are recommended as preparation for the following California State and BAR tests for:
 * Smog Check Technician License
 ** Brake Adjusters License
 *** Air Conditioning Refrigeration Recovery and Recycling Certification





AUTOMOTIVE ENGINE PERFORMANCE TECHNOLOGY

CERTIFICATE OF ACHIEVEMENT

PROGRAM-LEVEL OUTCOMES

1. Demonstrate the expertise needed to perform vehicle maintenance, service, diagnosis, and repair of current vehicles.
2. Demonstrate the ability to perform automotive operations in a timely and professional manner with limited supervision.
3. Demonstrate an ethical code conforming to the highest standards of the automotive industry.

YEAR ONE

UNITS

ATEC 50	Introduction to Automotive Technology	3
ATEC 1	Automotive Engines	4
ATEC 6A *	Automotive Electrical and Electronic Fundamentals	4
ATEC 7 ***	Automotive Heating and Air Conditioning Systems	2.5
ATEC 6B *	Automotive Electrical and Electronic Systems	3

YEARTWO

UNITS

ATEC 8 *	Automotive Air and Fuel Delivery Systems	4
ATEC 10 *	Automotive Advanced Engine Performance	3
ATEC 80 *	California Emissions Testing Technician Training Course	7.5

These courses are recommended as preparation for the following California State and BAR tests for:

* Smog Check Technician License

*** Air Conditioning Refrigeration Recovery and Recycling Certification

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS 31

AUTOMOTIVE SERVICE CONSULTING

CERTIFICATE OF ACHIEVEMENT

Focuses on Automotive Service Consultants and their relationship to the processing of work within the automotive service facility. The actions, procedures and interaction with all personnel and their value will be discussed in detail, in preparation for industry employment at an entry level. Potential career opportunities include: Service Consultant, Service Writer. Content is aligned with tasks identified by Automotive Service Excellence (ASE).

CAREER OPPORTUNITIES IN AUTOMOTIVE TECHNOLOGY

The automotive industry includes a broad scope of career opportunities. The Automotive Service Consultant course of study provides fundamental knowledge and experience to obtain employment in new car, retail chain, independently owned automotive service facilities, and related industries. Automotive Service Consultant can be either an initial career path or a transitional path for existing technicians or industry employees. This position can also provide future opportunities in management.

REQUIRED CORE

UNITS

ATEC 50	Introduction to Automotive Technology	3
BUS 14	Business Communications	3
CAS 50	Introduction to Computer Application Systems	3
ATEC 75	Automotive Service Consultant	3

TOTAL UNITS 12

HYBRID AND ALTERNATIVE FUEL VEHICLES

CERTIFICATE OF ACHIEVEMENT

The automotive industry includes a broad scope of career opportunities. The Certificate of Achievement in Hybrid and Alternative Fuel Vehicles provides students with the necessary knowledge, skills, and experience to safely and properly diagnose, repair, service and maintain hybrid, electric, diesel, and alternative fuel vehicles.

CAREER OPPORTUNITIES IN AUTOMOTIVE TECHNOLOGY

Technician: Hybrid vehicles, Electric vehicles, Clean Diesel vehicles, Alternative fuel vehicles. Shop foreman, Manufacture, Business owner.

ATEC 50	Introduction to Automotive Technology	3
ATEC 1	Automotive Engines	4
ATEC 6A	Automotive Electrical and Electronic Fundamentals	4
ATEC 8	Automotive Air and Fuel Delivery Systems	4
ATEC 90	Hybrid Vehicle Operation and Servicing	2
ATEC 91	Hybrid Diagnosis and Alternate Fuels Technology	2

TOTAL UNITS 19

AUTOMOTIVE TECHNOLOGY (ATEC)

1 AUTOMOTIVE ENGINES 4 UNITS

Automotive engine fundamentals including; configurations and designs, operation, diagnostic tests; disassembly, inspection, thread repair, broken bolt removal, precision measurement, assembly, timing chains and belts, valve adjustments, cooling systems, introduction to engine machining, proper use of shop related tools and equipment, and safety practices. Prerequisite: Automotive Technology 50 (may be taken concurrently) or equivalent. 2.5 hours lecture, 5.5 hours laboratory. Transfer: CSU.

2 AUTOMOTIVE AUTOMATIC TRANSMISSIONS AND TRANSAXLES 3 UNITS

Automotive Automatic Transmission fundamentals including: Diagnosis, inspection, repair, and adjustment of automatic transmission/transaxle assemblies, torque converters, friction materials, hydraulics, gear trains, manual and electronic controls, driveshaft and axle operation service and repair. Prerequisite: Automotive Technology 50 (may be taken concurrently) or equivalent. (May not receive credit if Automotive Technology 64B has been completed.) 1.5 hours lecture, 5 hours laboratory. Transfer: CSU.



3 AUTOMOTIVE MANUAL TRANSMISSIONS AND TRANSAXLES 3 UNITS

Automotive Manual Transmission fundamentals including: Diagnosis, inspection, repair, and adjustment of automotive manual drive train and axle assemblies, final drives, clutches, viscous couplings, and transercases. Two, four and all wheel drive assemblies, service and repair. Prerequisite: Automotive Technology 50 (may be taken concurrently) or equivalent. (May not receive credit if Automotive Technology 64A has been completed.) 1.5 hours lecture, 5 hours laboratory. Transfer: CSU.

4 AUTOMOTIVE SUSPENSION AND STEERING 3 UNITS

Automotive Suspension and Steering fundamentals including: Diagnosis, inspection, repair, and adjustment of modern automotive steering, suspension, supplemental restraint, tire pressure monitoring, and alignment systems, theory of operation, common automotive steering and suspension systems, wheel alignment principles, methods of diagnosis, adjustment and repair, suspension service equipment. Prerequisite: Automotive Technology 50 (may be taken concurrently) or equivalent. (May not receive credit if Automotive Technology 66 has been completed.) 1.5 hours lecture, 5 hours laboratory. Transfer: CSU.

5 AUTOMOTIVE BRAKING SYSTEMS 3 UNITS

Automotive brake system including: Diagnosis, inspection, repair, and adjustment of modern automotive brakes, including anti-lock braking systems, traction control, and dynamic stability control systems, theory of operation, the study of basic laws of hydraulics, brake service equipment. Prerequisite: Automotive Technology 50 (may be taken concurrently) or equivalent. (May not receive credit if Automotive Technology 65 has been completed.) 1.5 hours lecture, 5 hours laboratory. Transfer: CSU.

6A AUTOMOTIVE ELECTRICAL AND ELECTRONIC FUNDAMENTALS 4 UNITS

Automotive Electrical and Electronic fundamentals including: Ohm's Law, basic electrical circuits, components, battery, starting, charging, and basic wiring systems, electrical components and the use of basic wiring diagrams for trouble shooting systems, repair of wiring circuits and correct use of diagnostic equipment. Prerequisite: Automotive Technology 50 (may be taken concurrently) or equivalent. (May not receive credit if Automotive Technology 60 has been completed.) 2.5 hours lecture, 5.5 hours laboratory. Transfer: CSU.

6B AUTOMOTIVE ELECTRICAL AND ELECTRONIC SYSTEMS 3 UNITS

Automotive body electronics, vehicle lighting, instrumentation, OEM audio, navigation, and communication systems, supplemental restraint systems, starter interlock systems, computer controlled charging systems. Prerequisite: Automotive Technology 6A or equivalent. 1.5 hours lecture, 5 hours laboratory. Transfer: CSU.

7 AUTOMOTIVE HEATING AND AIR CONDITIONING SYSTEMS 2.5 UNITS

Automotive Heating and Air Conditioning including: Diagnosis, testing, adjustment, and repair of air conditioning, cooling and heating systems, heat and energy, psychometrics, air flow, refrigerant recycling, equipment and controls. Prerequisite: Automotive Technology 50 (may be taken concurrently) or equivalent. Strongly recommended: Automotive Technology 6A or equivalent. (May not receive credit if Automotive Technology 62 has been completed.) 1.5 hours lecture, 4 hours laboratory. Transfer: CSU.

8 AUTOMOTIVE AIR AND FUEL DELIVERY SYSTEMS 4 UNITS

Automotive Air and Fuel Delivery including: Introduction to the principles of automotive fuel induction systems, including the inspection, diagnosis, and evaluation of fuel storage, fuel pumps, carburetion, intake and exhaust systems, engine operation principles, computerized engine controls, and fuel injection systems. Prerequisite: Automotive Technology 6A or equivalent. (May not receive credit if Automotive Technology 61 has been completed.) 2.5 hours lecture, 5.5 hours laboratory. Transfer: CSU.

10 AUTOMOTIVE ADVANCED ENGINE PERFORMANCE 3 UNITS

Automotive Engine Management Systems including: Ignition systems, combustion process, emission control devices, diagnostic practices for drivability, emissions, on board diagnostic systems, vehicle systems integration, and new engine technology. Prerequisite: ATEC 8. Transfer: CSU.

50 INTRODUCTION TO AUTOMOTIVE TECHNOLOGY 3 UNITS

Automotive industry fundamentals including careers, safety; fasteners, hand tool identification and usage; vehicle systems, electrical fundamentals; service information access and use; automotive chemical and fluid applications; hazardous waste handling; general shop equipment usage, and vehicle servicing. 2.5 hours lecture, 2.5 hours laboratory. Transfer: CSU.

52 AUTOMOTIVE CAREER EXPLORATION 1 UNIT

Researching current career pathways related to the automotive industry including job opportunities, salary expectations, and training expectations. 1 hour.

75 AUTOMOTIVE SERVICE CONSULTANT 3 UNITS

Automotive Service Consultant fundamentals including: Communications, customer service, legal documents, business interactions, billing, parts and labor guides, shop management applications, shop operations, sales, vehicle identification and systems operations. Course content is aligned with tasks identified by Automotive Service Excellence (ASE) certification. Prerequisite: ATEC 50 (completed with a grade of "C" or higher) or equivalent (may be taken concurrently). 2.5 hours lecture, 1.5 hours laboratory. Transfer: CSU.



80 CALIFORNIA EMISSIONS TESTING TECHNICIAN TRAINING COURSE 7.5 UNITS

Motor vehicle emission inspection and maintenance: Includes the Bureau of Automotive Repair (BAR) requirements for: BAR Alternate A6, BAR Alternate A8, BAR Alternate L1, Basic Clean Air Car Course (BCACC), Advanced Clean Air Car Course (ACACC), Transition Course, and the current BAR Update. These courses are required for eligibility to take the State Licensing examination in addition to: one year trade experience in emissions/tune up, or nine semester units (13 quarter units) in Automotive Technology, or 180 hours at an accredited automotive school. 6 hours lecture, 6 hours laboratory. Transfer: CSU.

90 HYBRID VEHICLE OPERATION AND SERVICING 2 UNITS

Study of hybrid vehicle architecture, operation, and servicing. Prerequisite: ATEC 50. Strongly Recommended: ATEC 6A and , ATEC 8 and , ATEC 2 and , ATEC 5 and ATEC 10 or equivalent. Transfer: CSU.

91 HYBRID DIAGNOSIS AND ALTERNATE FUELS 2 UNITS TECHNOLOGY

Hybrid vehicle diagnosis and repair processes, and alternate fuels application and operation. Prerequisite: Automotive Technology 9901 or Automotive Technology 90 (completed with a grade of C or higher). 24 total hours lecture, 32 total hours laboratory. Transfer: CSU.

AUTOMOTIVE TECHNOLOGY (BMW)

10 BMW TECHNICAL SYSTEMS 5 UNITS

Introduces and develops the use of BMW's technology including BMW's proprietary internet resource information systems and BMW's workshop equipment for diagnosis, coding, and programming. Additional content includes service, maintenance, and warranty programs. Prerequisite: Automotive Technology 50 (may be taken concurrently) or equivalent. 4 hours lecture, 4.6 hours laboratory. Transfer: CSU.

20 BMW BODY ELECTRONICS 5 UNITS

Covers basic electricity, DVOMs, breakout boxes and connectors, understanding diagnostics, BMW's drive away protection systems (EWS), electronic signals, batteries, starting and charging systems, bus communication systems, power modules, car access systems (CAS) and voltage supply systems. Prerequisite: BMW 10. Strongly recommended: Automotive Technology (ATEC) 6A. 3 hours lecture, 6 hours laboratory. Transfer: CSU.

30 BMW CHASSIS DYNAMICS 5 UNITS

Contains suspension geometry, BMW suspension systems, wheel alignment procedures, road force balancing, chassis dynamics, active steering systems, DSC dynamic drive systems, active all wheel drive systems, active roll stabilization, level control systems, electronic damper control, electronic parking brakes, and tire pressure monitoring systems. Prerequisite: BMW 10 and 20. Strongly Recommended: ATEC 4 and ATEC 5. 3 hours lecture, 6 hours laboratory. Transfer: CSU.

40 BMW ENGINE ELECTRONICS AND ENGINE TECHNOLOGY 5 UNITS

Breaks down the current BMW engine management systems into power supply, fuel management, air management, ignition, emissions, and performance controls. Engine diagnosis and repair in VANOS, Valvetronic, differential intake air systems (DISA), engine and vehicle managements are reinforced. Prerequisite: BMW 10 and , BMW 20. Strongly Recommended: ATEC 8 and , ATEC 1. Transfer: CSU.

BEHAVIORAL SCIENCE

DEGREE:

AA-BEHAVIORAL SCIENCE (GENERAL)

This major is highly recommended for transfer students because it provides a basic foundation for subsequent specialization in many liberal arts fields of study. It is strongly based in the international arena. The value of the degree is now recognized by business and industry as it requires a variety of skills demanded in business, education, health, law, and government, as well as the social services. The general studies student should market educational accomplishments as a collection of career transferable skills in communication, the global arena, public service, problem solving, production and personnel management.

PROGRAM-LEVEL OUTCOMES

1. Demonstrate an understanding of the major theoretical perspectives included the behavioral sciences.
2. Demonstrate an understanding of research methods used in the behavioral sciences.

YEAR ONE		UNITS
ANTH 1	Biological/Physical Anthropology	3
PSY 1	General Psychology	3
SOCI 1	Principles of Sociology	3

YEAR TWO		UNITS
Courses from the following list for a total of 9 units:		
	Anthropology	
	Psychology	
	Sociology	

General Education Courses

For specific General Education courses refer to catalog section on Graduation Requirements.

TOTAL UNITS 18



BIOLOGICAL SCIENCES

BIOLOGY (BIOL)

DEGREE:

AA-BIOLOGY

AA-BIOLOGY (EMPHASIS IN ALLIED HEALTH)

AS-T-BIOLOGY

Biologists study the origin, development, anatomy, physiology, ecology and other basic principles of plants and animals. Various areas of specialization are available to biologists in research, manufacturing, teaching, natural resource management, consulting and administration. Biologists are usually classified according to specialty, i.e., microbiologists, ecologists, physiologists, zoologists, botanists. Preparation for some entry level jobs in these and other areas generally requires a bachelor's degree. Students interested in a career in biology should plan to obtain a master's or doctorate degree.

In today's workplace, most allied health care professionals are expected to have a solid science foundation in basic chemistry, human structure and function and the microbial world. With a strong science background, students develop a basic understanding of the physical and physiological interrelationships which exist between organs, tissues and cells and how microorganisms can be beneficial and sometimes harmful to humans.

BIOLOGY

ASSOCIATE IN SCIENCE FOR TRANSFER (AS-T)

The Associate in Science in Biology for Transfer degree provides students with a foundation in biological principles and the diversity of life. Biology students study life at the molecular, cellular, organismal, ecological, and evolutionary levels. Students answer scientific questions by critically evaluating scientific information, developing and testing hypotheses using the tools and techniques of the biological sciences, analyzing data, and interpreting results. Many students major in biology to prepare for careers in research, teaching, natural resource management or medical professions. The Associate in Science in Biology for Transfer assists students in a more seamless transfer experience into the California State University System. California Community College students who are awarded an Associate in Science in Biology for Transfer are guaranteed admission with junior standing in the CSU System and given priority admission consideration to their local CSU campus to a program that is deemed similar to their community college major.

CAREER OPPORTUNITIES IN BIOLOGY

The Associate in Science in for Transfer degree provides students with a foundation in biological principles and preparation for a wide variety of careers in research, manufacturing, teaching, natural resource management, consulting and administration. Biology is a very broad field with many sub disciplines including cell and molecular biology, genetics, ecology, physiology, zoology, and botany. According to the Bureau of Labor Statistics, employment for biologists is expected to grow faster than other occupations during the next decade in part due to the growth in the biotechnology industry, genetic counseling, and environmental science.

REQUIRED CORE (13 UNITS)

		UNITS
BIOL 6	Principles of Plant Biology and Ecology	4
BIOL 4	Principles of Animal Biology and Evolution	4
BIOL 2	Principles of Cell/Molecular Biology and Genetics	5

List A (21-23 units)

PHYS 3A	College Physics A	4
PHYS 3B	College Physics B	4
CHEM 1A	General College Chemistry I	5
CHEM 1B	General College Chemistry II	5
MTH 1	Calculus I	5
or		
MTH 15	Applied Calculus I	3

GENERAL EDUCATION

Total Units for the major: 34-36

General Education: IGETC for STEM or CSU/GE for STEM: 31-33 units

Total Units Double Counted: 10 units

Total Units for the Degree: 60 units

ADDITIONAL REQUIREMENTS:

All courses in the major are required to have a grade of "C" or higher, and a cumulative GPA of 2.0 must be achieved. A "P" (Pass) grade is not an acceptable grade for courses in the major

TOTAL UNITS

34 -36

BIOLOGY

ASSOCIATE IN ARTS DEGREE

PROGRAM-LEVEL OUTCOMES

1. Perform experiments; collect, analyze, and report data.
2. Develop competency with standard equipment and techniques of biosciences.
3. Communicate scientific concepts by verbal, written, and graphic/illustrative means.
4. Collaborate with peers to perform experiments, maintain a safe laboratory environment, and discuss scientific concepts.



YEAR ONE		UNITS
BIOL 6	Principles of Plant Biology and Ecology	4
CHEM 1A	General College Chemistry I	5
CHEM 1B	General College Chemistry II	5
BIOL 4	Principles of Animal Biology and Evolution	4

YEARTWO		UNITS
BIOL 2	Principles of Cell/Molecular Biology and Genetics	5
PHYS 2A	Introduction to Physics I	4
PHYS 2B	Introduction to Physics II	4

GENERAL EDUCATION COURSES **UNITS**
For specific A.A. General Education courses refer to the catalog section on A.A. Graduation Requirements.

TOTAL UNITS **31**

BIOLOGY (EMPHASIS IN ALLIED HEALTH)

ASSOCIATE IN ARTS DEGREE

PROGRAM-LEVEL OUTCOMES

1. Explain the interdependence of molecular through organismal structure and function in both health and disease.
2. Acquire, conduct, analyze, and interpret data using scientific terminology, measurements, and protocols.

YEAR ONE		
CHEM 30A	Introductory and Applied Chemistry I	4
ANAT 1	General Human Anatomy	5
CHEM 30B	Intro and Applied Chemistry II	4

YEARTWO		
MICR 1	Microbiology	5
PHSI 1	Human Physiology	5

General Education Courses
For specific A.A. General Education courses refer to catalog section on A. A. Graduation Requirements.

TOTAL UNITS **23**

ANATOMY (ANAT)

1 GENERAL HUMAN ANATOMY 5 UNITS

Structure and function of the human body with emphasis on microscopic and gross anatomy. Microscopic examination of normal and pathological tissues, and dissection, supplemented by use of charts, models, and computer assisted instruction. Prerequisite: Biology 31 or equivalent course (completed with a grade of "C" or higher). Strongly recommended: English 1A (completed with a grade of "C" or higher). 3 hours lecture, 6 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC. C-ID BIOL 110B. (UC credit/unit limitations may apply).

BIOLOGY (BIOL)

2 PRINCIPLES OF CELL/MOLECULAR BIOLOGY AND GENETICS 5 UNITS

Principles of the structure and function of biological molecules, viruses, prokaryotic, and eukaryotic cells with emphasis on homeostasis, cell reproduction and its controls, molecular and transmission genetics, control of gene expression and interactions, genetic control of pattern formation in development, and cell metabolism. Prerequisite: Biology 4 or 6 and Chemistry 1A or equivalent and Mathematics 55 or equivalent (all completed with a grade of "C" or higher). Strongly recommended: eligibility for English 1A. Intended for biological sciences majors. 3 hours lecture, 6 hours laboratory. Transfer: IGETC ; CSU; UC; CSU/GE; C-ID: BIOL 190.

4 PRINCIPLES OF ANIMAL BIOLOGY AND EVOLUTION 4 UNITS

Principles of the diversity, structure and function of heterotrophic organisms—animals, protists, and fungi with emphasis on homeostasis, development, phylogeny, and taxonomy. Principles of evolution, evolutionary history, and population genetics. Intended for biological sciences majors. Prerequisite: Mathematics 55 or equivalent and Biology 6 or Chemistry 1A (all completed with a grade of "C" or higher). Strongly recommended: eligibility for English 1A. 3 hours lecture, 3 hours laboratory. Transfer: IGETC; C-ID: BIOL 130S (in combination with BIOL 6); CSU; UC; CSU/GE.

6 PRINCIPLES OF PLANT BIOLOGY AND ECOLOGY 4 UNITS

Principles of the diversity, structure and function of plants, autotrophic protists, and bacteria with emphasis on cell reproduction, alternation of generations, plant morphology and anatomy, homeostasis, development, phylogeny, taxonomy, and systematics. Principles of ecology including conservation biology. Intended for biological sciences majors. Prerequisite: Mathematics 55 or equivalent (completed with a grade of "C" or higher). Strongly recommended: eligibility for English 1A. 3 hours lecture, 3 hours laboratory. Transfer: IGETC; C-ID: 130S (in combination with BIOL 4); CSU; UC; CSU/GE.

10 INTRODUCTION TO THE SCIENCE OF BIOLOGY 4 UNITS

Basic principles of biology, cell biology, and genetics, with the nature of living things, and the nature of scientific investigation and its bioethical impact in our modern world. Designed for non-majors in biology or the biomedical sciences. 3 hours lecture, 3 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).

25 HUMAN HEREDITY AND EVOLUTION 3 UNITS

Fundamental concepts underlying heredity and evolution with a focus on the human species. Includes cell division, reproduction, molecular genetics, inheritance, population genetics, and evolution. Contemporary topics such as reproductive technologies, biotechnology, gene therapy, prenatal diagnosis, bioethics, and the genetics of cancer will be explored. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

31 INTRODUCTION TO COLLEGE BIOLOGY 4 UNITS

Basic principles of biology. Cell structure and function, cell division, cell metabolism, reproduction, genetics, taxonomy, origin of life, and evolution. Laboratory emphasis on developing various laboratory skills, using the metric system, collecting data, graphing, interpreting data, and preparing for and taking laboratory exams. Designed to prepare the necessary concepts and laboratory skills and experience that are needed to succeed in more advanced courses in biology. Geared towards Allied Health students. Strongly recommended: Mathematics 65 or 65A and eligibility for English 1A. 3 hours lecture, 3 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).

50 ANATOMY AND PHYSIOLOGY 4 UNITS

Structure and function of the human body is studied. Emphasis on human anatomy and physiological principles at the cellular and systemic level. Designed primarily for majors in paramedic and medical assisting programs and pre-medical students who wish to explore the realm of anatomy and physiology. 3 hours lecture, 3 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).



BIOTECHNOLOGY (BIOT)

20 CHEMISTRY FOR BIOTECHNOLOGY 4 UNITS

Covers the basic concepts of inorganic and organic chemistry, and biochemistry as they apply to the human body. Included are concepts such as properties of aqueous systems, equilibrium, acid-base reactions, proteins, nucleic acids and catabolic processes. Emphasis on safety and proper technique. Satisfies the requirements of the biotechnology program. Strongly recommended: Math 65 or 65B or 65L (completed with grade of "C" or higher) and eligibility for English 1A. 3 hours lecture, 3 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC.

30 BASIC BIOTECHNOLOGY 4 UNITS

introduction to cell and molecular biology Basic biological concepts, for example, measuring volume and mass, preparing solutions, performing aseptic technique, using micropipettors, operating a spectrophotometer, microscope, pH meter, and electrophoresis apparatus. Also included are culture techniques and concepts of recombinant DNA. Strongly recommended: Mathematics 65 or 65B or 65L (completed with grade of "C" or higher) or appropriate skill level as demonstrated by the mathematics placement test, Computer Science 8 or equivalent and eligibility for English 1A. 3 hours lecture, 3 hours laboratory. Transfer: CSU; UC.

40 BIOTECHNOLOGY LABORATORY SKILLS I 4 UNITS

Introduces students who are interested in biotechnology, biological sciences, and current industry workers to laboratory research methods and concepts in biotechnology. Laboratory skills include use of measuring equipment, volume and mass measurements, proper use of micropipettors, pH meters, spectrophotometers, and microscopes. Additional laboratory skills include sterile techniques, solution and media preparation, solution dilution, aseptic technique, culture of microbial colonies, agarose and polyacrylamide electrophoresis, chromatography, DNA extraction, DNA restriction digest, PCR, and bacterial transformation. Strongly recommended: Mathematics 54 (completed with grade of "C" or higher) or appropriate skill level as demonstrated by the mathematics placement test, and eligibility for English 1A. 2 hours lecture, 5 hours laboratory. Transfer: CSU.

50 BIOTECHNOLOGY LABORATORY SKILLS II 2 UNITS

Introduces students who are interested in biotechnology, biological sciences, and current industry workers to the advanced laboratory research methods and concepts in biotechnology. Laboratory skills include mastering the tools used in biotechnology such as isolation and quantification of DNA, amplifications with PCR, media preparation and dilution, aseptic technique, and cell culture. Strongly recommended: Mathematics 54 (completed with grade of "C" or higher) or appropriate skill level as demonstrated by the mathematics placement test, and eligibility for English 1A. 1 hour lecture, 3 hours laboratory. Transfer: CSU.

ENVIRONMENTAL SCIENCE (ENSC)

10 HUMANS AND THE ENVIRONMENT 3 UNITS

Identification of problems created by humans' modification of their environment by focusing on ecological interactions involving the human species; investigating the life processes of organisms as they relate to specific environments. Environmental Science 10, 11, and 12 may be combined for a maximum of 4 units. 3 hours lecture. Transfer: CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).

11 HUMANS AND THE ENVIRONMENT WITH LABORATORY 4 UNITS

Identification of problems created by humans' modification of their environment by focusing on ecological interactions involving the human species; investigating the life processes of organisms as they relate to specific environments. Environmental Science 10, 11, and 12 may be combined for a maximum of 4 units. 3 hours lecture, 3 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).

12 CURRENT ISSUES IN ENVIRONMENTAL SCIENCE 3 UNITS

Identification of problems created by humans' modification of their environment by focusing on ecological interactions involving the human species. Introduction of fundamental concepts of matter, energy, and ecology with emphasis on application of these concepts to a range of contemporary environmental issues including human population growth, resource use, pollution and global change. Environmental Science 10, 11, and 12 may be combined for a maximum of 4 units. 3 hours. Transfer: CSU; UC; CSU/GE.

15 AGROECOLOGY 3 UNITS

Principles of the ecology of sustainable food systems. The environmental impact of agriculture, types of agriculture, soil science, plant structure, reproduction, development and growth and plants' interactions with other organisms. The interactions of culture, human population growth, and major environmental challenges in the transition to sustainable agriculture and food systems. Designed for non-majors in environmental science. Transfer: CSU; UC; CSU/GE; IGETC.

15L AGROECOLOGY LABORATORY 1 UNITS

Laboratory exercises developed as an adjunct to ENSC 15 (Agroecology). Practical applications of ecological concepts and principles to the design and management of sustainable food systems. Investigation of abiotic factors and organisms that make up agroecosystems. Examination of gardens, farms and the local food system. Prerequisite: ENSC 15 (completed with a grade of "C" or higher) ENSC 15 (may be taken concurrently). Transfer: CSU; UC; CSU/GE; IGETC.

MICROBIOLOGY (MICR)

1 MICROBIOLOGY 5 UNITS

Bacteria, fungi, protozoa, and viruses with an emphasis on their relationship to humans and disease. Cultivation, control, metabolism, body's defenses against disease, microbial genetics, laboratory tests, and contemporary infectious diseases. Methods used in the laboratory include staining, investigation, cultivation, identification of unknowns, and sensitivity testing. Prerequisite: Biology 31, and Chemistry 30A or Chemistry 1A (all completed with a grade of "C" or higher). Strongly recommended: Anatomy 1, eligibility for English 1A. 3 hours lecture, 6 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC.

PHYSIOLOGY (PHSI)

1 HUMAN PHYSIOLOGY 5 UNITS

Cellular and systemic body functions. Emphasis placed on physico- and electro-chemical and clinical methods, collection and analysis of data, extrapolations and conclusions. Working models, including human responses, computer simulations are studied. Prerequisite: Chemistry 30A and Anatomy 1 (both completed with a grade of "C" or higher). Strongly recommended: Chemistry 30B, eligibility for English 1A. 3 hours lecture, 6 hours laboratory. Transfer: C-ID BIOL 120B; CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).





BUSINESS (BUS)

(Other Business-related programs appear under the headings of Computer Application Systems, Entrepreneurship and Real Estate.)

DEGREE:

- AS-T-BUSINESS ADMINISTRATION
- AS-ACCOUNTING
- AS-BUSINESS
- AS-RETAIL MANAGEMENT

CERTIFICATE OF ACHIEVEMENT:

- ACCOUNTING TECHNICIAN
- BOOKKEEPING
- BUSINESS-TRANSFER
- HEALTH CARE MANAGEMENT
- HUMAN RESOURCES ASSISTANT
- MANAGEMENT
- MARKETING
- RETAIL MANAGEMENT
- SMALL BUSINESS MANAGEMENT

CERTIFICATE OF PROFICIENCY:

- CPA EXAM PREPARATION: FINANCIAL ACCOUNTING AND AUDITING
- PROGRAM MANAGEMENT
- RETAILING

BUSINESS ADMINISTRATION
ASSOCIATE IN SCIENCE FOR TRANSFER

This curriculum provides an opportunity to achieve an Associate in Science Degree in Business Administration for Transfer to the California State University System (CSU) while completing the first and second year requirements for transfer to a four-year institution. A baccalaureate degree is recommended preparation for those considering professional careers in business. Completion of this curriculum will demonstrate commitment to the field and provide comprehensive preparation for upper-division work. This program is designed specifically for the California State University system. Lower Division requirements for the University of California system and private four-year colleges vary by transfer school. Please see a counselor for transfer requirements for other institutions. Students who intend to transfer must meet all current transfer requirements including minimum GPA.

Students are strongly advised to meet with a counselor to discuss transfer requirements and lower division major preparation that is needed for their intended transfer school.

CAREER OPPORTUNITIES IN BUSINESS

This program intends to prepare students for new employment or promotions in the fields of management, supervision, marketing, finance, international business, or other areas of business administration. While all classes in the program transfer to four-year universities at least as electives, the program is not intended to prepare a student for transfer. If your main goal is transfer to a four-year school, consider completing the AS-T in Business Administration for Transfer instead.

Required Core (18 units)		Units
BUS 1A *	Financial Accounting	4
BUS 10	Business Law	4
ECN 1	Principles of Microeconomics	3
BUS 1B	Managerial Accounting	4
ECN 2	Principles of Macroeconomics	3

List A (Choose one - 3-5 units)

MTH 1	Calculus I	5
	or	
MTH 15	Applied Calculus I	3
	or	
MTH 33	Finite Mathematics	4
	or	
MTH 43	Introduction to Probability and Statistics	4
	or	
PSY 5	Introductory Statistics for the Behavioral and Social Sciences	4

List B (Choose two-6-8 units)

Any course from List A not used above		3 - 5
	or	
BUS 12	Introduction to Business	3
CAS 50	Introduction to Computer Application Systems	3
	or	
CSCI 8	Computer Literacy	3

General Education for Transfer to CSU

Required courses for the major: 27-31 units
 CSU GE or IGETC (CSU) 37-39 units
 (Possible Double-counting 12 units)
 CSU transfer Electives as needed to reach 60 CSU transferable units.

TOTAL UNITS **27 - 31**



ACCOUNTING

ASSOCIATE IN SCIENCE

The A.S. degree in Accounting is the highest level of the accounting program at Chabot. The degree requires the most time and intellectual commitment. A student should obtain the degree after completing the certificate in Accounting Technician. The degree prepares students for entry-level positions within accounts receivable and accounts payable departments, payroll units, income tax firms, and financial services organizations. Graduates of the program will be able to identify, analyze, summarize, communicate, record, and interpret business transactions and financial statements. Students will learn commercial and customized accounting software and spreadsheets and will apply the skills via intensive accounting applications. Students will study professional and ethical behavioral case studies for business, as well as attain oral and written communication skills that are necessary for success. Technical courses in accounting, taxes, and payroll with commercial software will allow graduates to seek advanced placement in accounting or information systems departments. With this accounting degree, jobs are available in just about every corporate business and non-profit organization.

CAREER OPPORTUNITIES IN BUSINESS

While many accounting careers require at least a bachelor's degree in accounting, an associate's degree in accounting opens the door to some entry-level accounting careers. After you complete your associate's degree in accounting, you will be qualified to work in a number of accounting careers. These include general bookkeeping or being a clerk of accounts payable or accounts receivable. After gaining some experience in an accounting career, you will generally find more career options. However, accounting career options for a graduate of an associate's degree program are not as numerous as accounting career options for a graduate of a bachelor's or master's degree program. If you want to finish your degree quickly and start working, an associate's degree in accounting can be a good way to begin an accounting career. In some cases, you can use the credits you earn for your associate's degree in accounting to transfer to a four-year school and earn a bachelor's degree in accounting, opening up more accounting career options. One advantage of pursuing an associate's degree in accounting first is to see how good a fit the field is for you. Another advantage is that you can start working in only two years, as opposed to waiting four or five years to complete a higher degree program.

YEAR ONE	UNITS
BUS 1A * Financial Accounting	4
BUS 12 Introduction to Business	3
BUS 1B Managerial Accounting	4
BUS 93 QuickBooks	2
YEARTWO	UNITS
BUS 10 Business Law	4
BUS 3 Taxation of Individuals	3
CAS 58 Introduction to Microsoft Access	3
BUS 92 Excel Spreadsheets for Accounting	2
Options **	12 - 13

General Education Units for the A.S. Degree

For specific A.S. General Education courses refer to the catalog on A.S. Graduation Requirements.

REQUIRED MAJOR SPECIFIC G.E. COURSE:

BUS 14: Business Communications (3 units)

TOTAL UNITS

37 -38

*Business 7 (Accounting for Small Business) is strongly recommended before taking Business 1A.

**Select a minimum of 12 units from the following options:

BUS 2: Intermediate Accounting (4 units)

BUS 4: Cost Accounting (3 units)

BUS 5: Auditing (3 units)

BUS 8: Payroll Accounting (3 units)

BUS 11: Gov't and Nonprofit Acctg (3 units)

BUS 13: Advanced Topics in Acctg (4 units)

BUS 25: Taxation of Business Entities (3 units)

BUS 33: Accounting Ethics (3 units)

BUSINESS

ASSOCIATE IN SCIENCE

The core curriculum for the Business Associate in Science Degree involves completing the courses below and the general education requirements. Students may enroll in one of the three areas of emphasis: General Business, Management, or Marketing. Only one Associate in Science Degree in Business may be earned.

CAREER OPPORTUNITIES IN BUSINESS

This program intends to prepare students for new employment or promotions in the fields of management, supervision, marketing, finance, international business, or other areas of business administration. While all classes in the program transfer to four-year universities at least as electives, the program is not intended to prepare a student for transfer. If your main goal is transfer to a four-year school, consider completing the AS-T in Business Administration for Transfer instead.

PROGRAM-LEVEL OUTCOMES

1. Understand and apply generally accepted accounting principles to prepare financial statements.
2. Develop understanding of the law and the legal environment as it relates to business operations, including ethical considerations.
3. Create effective oral and written business communications using modern communication technologies.
4. Apply critical thinking and analytical skills in decision making and problem solving.



YEAR ONE		UNITS
BUS 1A	Financial Accounting or	4
BUS 7	Accounting for Small Business	3
BUS 10	Business Law	4
BUS 12	Introduction to Business	3
BUS 16	Business Mathematics	3
BUS 22	Introduction to Management	3

YEAR TWO		UNITS
BUS 36	Introduction to Marketing	3
BUS 40	International Business	3
CAS 50	Introduction to Computer Application Systems or	3
CAS 54	Microsoft Excel or	3
CSCI 8	Computer Literacy	3

Emphasis 9
 Select from the areas of emphasis below. Only one A.S. degree in Business may be earned

General Education Units For A.S. Degree
 For specific A.S. General Education courses refer to catalog section on A.S. Graduation Requirements.

REQUIRED MAJOR SPECIFIC G.E. REQUIREMENT.
Complete a minimum of 3 units from the following.

BUS 14	Business Communications	Units 3
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Emphasis 1 - General Business
 Select a minimum of 9 units from any other business or entrepreneurship classes

EMPHASIS 2 - MANAGEMENT		UNITS
BUS 21	Human Resource Management	3
Select a minimum of 6 units from the following options:		
BUS 26	Small Business Management	3
BUS 50A	Skills for Supervisors	1
BUS 50B	Business Etiquette and Professionalism	1
BUS 50C	Interviewing for Success	1
BUS 50D	Resumes and Job Application Letters	1
BUS 50F	Developing a Business Plan	1
BUS 50G	Negotiating Skills	1
BUS 50J	Time Management Skills	1
BUS 50K	Listening Skills	1
BUS 50L	Careers in Business	1
BUS 50M	Workplace Diversity	1
BUS 50N	Dealing with Difficult People	1
BUS 50P	Quality Customer Service	1
BUS 95	Work Experience	1 - 3
or		
WEXP 95	Work Experience	1 - 3
BUS 96	Work Experience Seminar	1
or		

WEXP 96	Work Experience Seminar	1
ENTR 1	Introduction to Entrepreneurship	3
PSY 1	General Psychology	3

EMPHASIS 3 - MARKETING		UNITS
BUS 34	Introduction to Advertising	3
ENTR 20	Marketing for Entrepreneurs	3
Select a minimum of 3 units from the following options:		
BUS 26	Small Business Management	3
BUS 31	Professional Selling	3
BUS 32	Retail Store Management	3
BUS 50A	Skills for Supervisors	1
BUS 50B	Business Etiquette and Professionalism	1
BUS 50C	Interviewing for Success	1
BUS 50D	Resumes and Job Application Letters	1
BUS 50F	Developing a Business Plan	1
BUS 50G	Negotiating Skills	1
BUS 50J	Time Management Skills	1
BUS 50K	Listening Skills	1
BUS 50L	Careers in Business	1
BUS 50M	Workplace Diversity	1
BUS 50N	Dealing with Difficult People	1
BUS 50P	Quality Customer Service	1
BUS 95	Work Experience	1 - 3
or		
WEXP 95	Work Experience	1 - 3
BUS 96	Work Experience Seminar	1
or		
WEXP 96	Work Experience Seminar	1
ENTR 1	Introduction to Entrepreneurship	3

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS **34 - 35**

RETAIL MANAGEMENT
 ASSOCIATE IN SCIENCE DEGREE

This program should be completed after a student earns a certificate in Retail Management. All major class requirements are a part of that certificate. To earn this degree, a student will complete additional General Education Classes and possible electives to earn a minimum total of 60 units. The program was developed in accordance with the Western Association of Food Chains' Retail Management Certificate Program, a program that has been fully endorsed by the Western Association of Food Chains and its member companies. The certificate's curriculum was developed out of a collaborative effort between several industry and college professionals and encompasses several business essentials, including the "soft skills" of management and communication required for career success in the retail industry. Although the program was developed by the food retail industry, its completion will help students to acquire necessary knowledge and skills to manage retail stores of any kind.

**PROGRAM-LEVEL OUTCOMES**

1. Understand and apply practices used in the management of retail stores.
2. Identify the basics of information technology and apply software applications to enhance efficiency of business functions.
3. Create effective oral and written business communications using modern communication technologies.
4. Apply critical thinking and analytical skills in decision making and problem solving.

YEAR ONE

		UNITS
BUS 28	Human Relations in the Workplace	3
BUS 22	Introduction to Management	3
BUS 36	Introduction to Marketing	3
BUS 1A	Financial Accounting	4

YEARTWO

		UNITS
BUS 21	Human Resource Management	3
BUS 32	Retail Store Management	3
CSCI 8	Computer Literacy	3
	or	
CAS 50	Introduction to Computer Application Systems	3

General Education Units For A.S. Degree

For specific A.S. General Education courses refer to catalog section on A.S. Graduation Requirements.

REQUIRED MAJOR SPECIFIC G.E. REQUIREMENT

Complete a minimum of 3 units from the following.		Units
BUS 14	Business Communications	3

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS **22**

ACCOUNTING TECHNICIAN

CERTIFICATE OF ACHIEVEMENT

The Accounting Technician certificate targets individuals that want to find entry-level accounting positions within accounts receivable and accounts payable departments, payroll units, income tax firms, or financial services organizations. Students learn the theory and practice of the Generally Accepted Accounting Principles (GAAP), preparation of payroll documents, individual and business tax forms, basics of written and oral business communication, and accounting and payroll software. With the certificate in Accounting Technician, jobs are available in just about every corporate business and non-profit organization. This certificate is aligned with the AS degree in Accounting and should be the 1st step in a student's pathway towards obtaining the AS in Accounting.

CAREER OPPORTUNITIES IN BUSINESS

The Accounting Technician certificate targets individuals that want to find entry-level accounting positions within accounts receivable and accounts payable departments, payroll units, income tax firms, or financial services organizations. With the certificate in Accounting Technician, jobs are available in just about every corporate business and non-profit organization.

CORE COURSES

BUS 1A *	Financial Accounting	4
BUS 8	Payroll Accounting	3
BUS 14	Business Communications	3
CAS 54	Microsoft Excel	3
BUS 1B	Managerial Accounting	4
CAS 58	Introduction to Microsoft Access	3
BUS 3	Taxation of Individuals	3
BUS 92	Excel Spreadsheets for Accounting	2
BUS 93	QuickBooks	2

*Business 7 (Accounting for Small Business) is strongly recommended before taking Business 1A.

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS **27**

BOOKKEEPING

CERTIFICATE OF ACHIEVEMENT

The Bookkeeping program targets individuals willing to quickly enter the workforce. You will be employed in entry-level positions as bookkeepers, payroll clerks, and income tax clerks working for small businesses, including small accounting/taxation firms. Graduates of the program will have skills and knowledge of double-entry bookkeeping, completing journals, ledgers, payroll documents, tax forms, and bank statement reconciliations. In addition, graduates will become proficient in accounting and payroll software, including QuickBooks.

CAREER OPPORTUNITIES IN BUSINESS

The Bookkeeping program targets individuals willing to quickly enter the workforce. You will be employed in entry-level positions as bookkeepers, payroll clerks, and income tax clerks working for small businesses, including small accounting/taxation firms.

PROGRAM-LEVEL OUTCOMES

1. Understand and apply the generally accepted accounting principles to prepare financial statements.
2. Identify the basics of information technology and apply software applications to accounting transactions.
3. Create effective oral and written business communications using modern communication technologies.
4. Apply critical thinking and analytical skills in decision making and problem solving.

**CORE COURSES****UNITS**

BUS 7	Accounting for Small Business	3
CAS 54	Microsoft Excel	3
BUS 93	QuickBooks	2
BUS 1A *	Financial Accounting	4
	or	
BUS 3	Taxation of Individuals	3
BUS 8	Payroll Accounting	3
BUS 92	Excel Spreadsheets for Accounting	2
BUS 14	Business Communications	3

*If Business 1A is completed before Business 7, the Business 7 requirement cannot be waived for this program.

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS**19 - 20****BUSINESS–TRANSFER****CERTIFICATE OF ACHIEVEMENT**

This certificate is developed to prepare students for further study of business. All courses within the certificate are required for the AS-T in Business Administration for Transfer Degree. Thus this curriculum also completes more than half of the undergraduate business major requirements for transfer should a student decide to transfer prior to completing all the requirements for the Chabot AS-T in Business Administration for Transfer Degree; or decide to complete lower division general education requirements and transfer to a four-year institution at a later time.

CAREER OPPORTUNITIES IN BUSINESS

This certificate is developed to prepare students for further study of business. All courses within the certificate are part of the Associate in Science degree in Business Administration transfer (AS-T). Thus, this curriculum completes more than a half of the undergraduate business major requirements for transfer to the CSU system.

CORE COURSE**UNITS**

BUS 1A *	Financial Accounting	4
BUS 12	Introduction to Business	3
ECN 1	Principles of Microeconomics	3
	or	
ECN 2	Principles of Macroeconomics	3
	or	
CAS 50	Introduction to Computer Application Systems	3
	or	
CSCI 8	Computer Literacy	3
BUS 1B	Managerial Accounting	4
BUS 10	Business Law	4

*Business 7 (Accounting for Small Business is strongly recommended before taking Business 1A.

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS**18****HEALTH CARE MANAGEMENT****CERTIFICATE OF ACHIEVEMENT**

Chabot's Health Care Management program is the only program of its type among community colleges in the Bay Area. The program is specifically designed for those currently working in any health care position that would like to advance into management. The curriculum provides an introduction to key management and human resource concepts; law, finance, and leadership courses focused on the health care organization; and the development of communication skills required for management success. All courses in this certificate are offered online.

PROGRAM-LEVEL OUTCOMES

1. Identify and analyze unique legal issues in health care, including HIPAA (patient privacy laws and regulations), Medicare and Medicaid reimbursement requirements, negligence/malpractice issues, advance directives, and employment law for medical staff and independent contractors.
2. Apply effective management approaches in health care organizations, including organizational structure and governance, information technology, facilities and guest services, planning, marketing and strategy.
3. Create effective oral and written business communications using modern communication technologies.
4. Identify and analyze financial structures of both for profit and non-profit healthcare organizations.

CORE COURSES**UNITS**

BUS 22	Introduction to Management	3
BUS 71	Health Care Law	3
BUS 14	Business Communications	3
BUS 21	Human Resource Management	3
BUS 70	Health Care Financial Management	3
BUS 72	Leadership of Health Care Organizations	3

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS**18****HUMAN RESOURCES ASSISTANT****CERTIFICATE OF ACHIEVEMENT**

Chabot's Human Resources Assistant program is the only program of its type among community colleges in the Bay Area. The program is specifically designed and focused to prepare you for an exciting entry-level career in human resources for profit, non-profit, or government organizations. You will perform paraprofessional administrative support work in a human resources area.



CAREER OPPORTUNITIES IN BUSINESS

Human resources assistants keep records of a company's employees. These records have facts, such as each worker's name, address, job title, pay, and health insurance benefits and other benefits. Every day, human resources assistants update information and answer questions about employees. They also may create reports for managers. Some human resources assistants answer the phone or open mail. Some help to hire workers. They sometimes do research on the Internet to find qualified applicants for jobs. They tell people about job openings. They get information from job applicants about their education and work experience. They give out tests and explain the company's rules. They ask for references from present or past employers. They call or write to applicants to tell them whether or not they got the job. In California, the salary for human resources assistants ranges between \$34,507 and \$52,000 with annual mean earnings of \$43,472.

PROGRAM-LEVEL OUTCOMES

1. Understand and apply knowledge of human resources to a modern organization, including employment laws, staffing, compensation, training, development, workforce evaluation, motivation, and labor relationships.
2. Create effective oral and written business communications using modern communication technologies.
3. Identify the basics of information technology and apply software applications to manage of human resources.

CORE COURSES

		UNITS
BUS 7	Accounting for Small Business	3
BUS 21	Human Resource Management	3
CAS 50	Introduction to Computer Application Systems	3
	or	
CAS 54A	Microsoft Excel I	3
	or	
CSCI 8	Computer Literacy	3
BUS 8	Payroll Accounting	3
CAS 58	Introduction to Microsoft Access	3
BUS 14	Business Communications	3
BUS 22	Introduction to Management	3

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS **21**

MANAGEMENT

CERTIFICATE OF ACHIEVEMENT

Chabot's Business Management programs will provide you with the people skills and business knowledge to succeed and advance in for-profit or non-profit organizations. Graduates of the program have secured new positions or gained promotions to general managers, supervisors, assistant HR managers, office managers, retail store managers, sales managers, distribution managers, business owners, production supervisors, training coordinators, recruiters, buyers, and purchasing agents. The certificate may be completed either on campus or fully online. All classes within the program will also apply toward an AS degree in Business, Marketing emphasis.

PROGRAM-LEVEL OUTCOMES

1. Understand and apply generally accepted accounting principles to prepare financial statements.
2. Develop understanding of the law and the legal environment as it relates to business operations, including ethical considerations.
3. Create effective oral and written business communications using modern communication technologies.
4. Apply critical thinking and analytical skills in decision making and problem solving.

CORE COURSES

		UNITS
BUS 12	Introduction to Business	3
BUS 21	Human Resource Management	3
BUS 22	Introduction to Management	3
BUS 1A	Financial Accounting	4
	or	
BUS 7	Accounting for Small Business	3
	Option	6

OPTION

		UNITS
BUS 10	Business Law	4
BUS 14	Business Communications	3
BUS 16	Business Mathematics	3
BUS 36	Introduction to Marketing	3
BUS 40	International Business	3
BUS 50A	Skills for Supervisors	1
BUS 50B	Business Etiquette and Professionalism	1
BUS 50C	Interviewing for Success	1
BUS 50D	Resumes and Job Application Letters	1
BUS 50F	Developing a Business Plan	1
BUS 50G	Negotiating Skills	1
BUS 50J	Time Management Skills	1
BUS 50K	Listening Skills	1
BUS 50L	Careers in Business	1
BUS 50M	Workplace Diversity	1
BUS 50N	Dealing with Difficult People	1
BUS 50P	Quality Customer Service	1
BUS 95	Work Experience	1 - 3
	or	
WEXP 95	Work Experience	1 - 3
BUS 96	Work Experience Seminar	1
	or	
WEXP 96	Work Experience Seminar	1



The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS **18 - 19**

MARKETING

CERTIFICATE OF ACHIEVEMENT

Research indicates that about one-third of the labor force is now employed in marketing. Career opportunities in marketing are also expected to grow rapidly in the future. Marketing careers offer flexibility, mobility, and pay to match your ability. Graduates of the program have become marketing managers, professional sales and customer service representatives, small business owners, buyers and merchandisers in the retail community. They are also responsible for buying and selling product offerings, planning promotions and advertising and public relations campaigns. The certificate may be completed either on campus or fully online. All classes within the program will also apply toward an AS degree in Business, Marketing emphasis.

PROGRAM-LEVEL OUTCOMES

1. Understand and apply generally accepted accounting principles to prepare financial statements.
2. Develop understanding of the law and the legal environment as it relates to business operations, including ethical considerations.
3. Create effective oral and written business communications using modern communication technologies.
4. Apply critical thinking and analytical skills in decision making and problem solving.

CORE COURSES	UNITS
BUS 12 Introduction to Business	3
BUS 14 Business Communications	3
BUS 36 Introduction to Marketing	3
BUS 1A Financial Accounting	4
or	
BUS 7 Accounting for Small Business	3
BUS 34 Introduction to Advertising	3
ENTR 20 Marketing for Entrepreneurs	3

OPTION	UNITS
Select a minimum of three units from the following	
BUS 16 Business Mathematics	3
BUS 22 Introduction to Management	3
BUS 32 Retail Store Management	3
BUS 40 International Business	3
BUS 50A Skills for Supervisors	1
BUS 50C Interviewing for Success	1
BUS 50D Resumes and Job Application Letters	1
BUS 50F Developing a Business Plan	1
BUS 50G Negotiating Skills	1
BUS 50J Time Management Skills	1
BUS 50K Listening Skills	1
BUS 50L Careers in Business	1
BUS 50M Workplace Diversity	1
BUS 50N Dealing with Difficult People	1

BUS 50P Quality Customer Service	1
BUS 95 Work Experience	1 - 3
or	
WEXP 95 Work Experience	1 - 3
BUS 96 Work Experience Seminar	1
or	
WEXP 96 Work Experience Seminar	1
ENTR 1 Introduction to Entrepreneurship	3
BUS 50B Business Etiquette and Professionalism	1

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS **21 - 22**

RETAIL MANAGEMENT

CERTIFICATE OF ACHIEVEMENT

This certificate's curriculum was developed out of a collaborative effort between several industry and college professionals and encompasses several business essentials, including the "soft skills" of management and communication required for career success in the retail industry. Completion of the Retail Management Certificate will help students to acquire necessary knowledge and skills to manage retail stores of any kind. The program has been fully endorsed by the Western Association of Food Chains (WAFC) and its member companies. Explore more information about the WAFC certificate at <http://retailmanagementcertificate.com>.

CORE COURSES	UNITS
BUS 28 Human Relations in the Workplace	3
BUS 14 Business Communications	3
BUS 22 Introduction to Management	3
BUS 21 Human Resource Management	3
BUS 1A Financial Accounting	4
BUS 36 Introduction to Marketing	3
CSCI 8 Computer Literacy	3
or	
CAS 50 Introduction to Computer Application Systems	3
BUS 32 Retail Store Management	3

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS **25**



SMALL BUSINESS MANAGEMENT

CERTIFICATE OF ACHIEVEMENT

The small business management program's focus is student preparation for planning, organizing, and operating a small to mid-size business in manufacturing, wholesaling, retailing, or service trade. The curriculum provides a strong foundation in developing a business plan, managing all phases of a small business, learning accounting practices and legal concepts for a sole proprietorship. In addition, the certificate gives student flexibility in choosing among various classes to customize knowledge and skills acquired to specific needs of a particular small business.

CAREER OPPORTUNITIES IN BUSINESS

The small business management program's focus is student preparation for planning, organizing, and operating a small to mid-size business in manufacturing, wholesaling, retailing, or service trade. The curriculum provides a strong foundation in developing a business plan, managing all phases of a small business, learning accounting practices and legal concepts for a sole proprietorship. In addition, the certificate gives student flexibility in choosing among various classes to customize knowledge and skills acquired to specific needs of a particular small business.

PROGRAM-LEVEL OUTCOMES

1. Apply management principles to the selection, establishment, and operation of a small business.
2. Use accounting principles to prepare financial reports for a small business both manually and using software.
3. Develop understanding of the law and the legal environment as it relates to small business operations.

CORE COURSES

	UNITS
BUS 26 Small Business Management	3
BUS 10 Business Law	4
BUS 36 Introduction to Marketing	3
BUS 7 Accounting for Small Business	3
BUS 93 QuickBooks	2

OPTION

Select a minimum of four units from the following options:

	UNITS
BUS 12 Introduction to Business	3
ENTR 1 Introduction to Entrepreneurship	3
BUS 14 Business Communications	3
BUS 21 Human Resource Management	3
BUS 22 Introduction to Management	3
BUS 32 Retail Store Management	3
BUS 36 Introduction to Marketing	3
BUS 34 Introduction to Advertising	3
BUS 40 International Business	3
BUS 50A Skills for Supervisors	1
BUS 50B Business Etiquette and Professionalism	1
BUS 50C Interviewing for Success	1
BUS 50D Resumes and Job Application Letters	1
BUS 50F Developing a Business Plan	1
BUS 50G Negotiating Skills	1

BUS 50J	Time Management Skills	1
BUS 50K	Listening Skills	1
BUS 50L	Careers in Business	1
BUS 50M	Workplace Diversity	1
BUS 50N	Dealing with Difficult People	1
BUS 50P	Quality Customer Service	1
BUS 95	Work Experience	1 - 3
	or	
WEXP 95	Work Experience	1 - 3
BUS 96	Work Experience Seminar	1
	or	
WEXP 96	Work Experience Seminar	1

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS **19**

CPA EXAM PREPARATION: FINANCIAL ACCOUNTING AND AUDITING

CERTIFICATE OF PROFICIENCY

CPA Candidates must possess any Bachelor's degree. Additionally, the candidates must satisfy specific educational requirements (see the CalCPA website, www.dca.ca.gov/cba/applicants/tip_sheet.pdf). All of these educational requirements can be completed at a community college after the candidates complete their BA/BS degree. The classes within this certificate are counted towards the educational requirement for the CPA license. The certificate also prepares a candidate for two of the four parts of the CPA exam: Financial Accounting and Auditing. The certificate itself is neither required for the CPA exam nor guarantees the student's eligibility for the CPA exam. However, it provides a guideline on what classes best prepare the candidate for the CPA exam. Future CPAs have amazing career prospects in three main areas: public accounting, private accounting, and government/non-profit accounting. 2015 projections for California (from the Employment Development Department, Labor Market Info website) for accountants and auditors are: 15.8% annual increase in the number of jobs, and the median salary of \$78,000. The CPA license in general increases salaries for these jobs by 10-15%.

CAREER OPPORTUNITIES IN BUSINESS

Future CPAs have amazing prospects in three main areas: public accounting, private accounting, and government/non-profit accounting. Current projections for CA (from the EDD website) for accountants and auditors are: 15.8% annual increase in the number of jobs, and the median salary of \$78,000. The CPA license in general increases salaries for these jobs by 10-15%.



CORE COURSES		UNITS
BUS 2	Intermediate Accounting	4
BUS 5	Auditing	3
BUS 11	Governmental and Nonprofit Accounting	3
BUS 13	Advanced Topics in Accounting	4
BUS 33	Accounting Ethics	3

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS 17

CORE COURSES		UNITS
BUS 28	Human Relations in the Workplace	3
BUS 14	Business Communications	3
BUS 22	Introduction to Management	3
BUS 36	Introduction to Marketing	3
BUS 32	Retail Store Management	3

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS 15

PROGRAM MANAGEMENT

CERTIFICATE OF PROFICIENCY

The Program Management program prepares students to find employment as program managers. The focus is on developing the skills to run projects from start to finish. Students learn both methodology and best practices. They will complete a review course to prepare for a certification examination.

CORE COURSES		UNITS
BUS 88	Introduction to Project Management	3
BUS 89	Project Planning, Scheduling and Control	3
BUS 87	Project Management Certification Exam Preparation	3
BUS 94	MS Project Fundamentals	1
TOTAL UNITS		10

RETAILING

CERTIFICATE OF PROFICIENCY

This five-course certificate is the first step towards earning an eight-course certificate of Achievement in Retail Management. This certificate's curriculum was developed out of a collaborative effort between several industry and college professionals and encompasses several business essentials, including the "soft skills" of management and communication required for career success in the retail industry.

CAREER OPPORTUNITIES IN BUSINESS

Entry level positions in retail supervision and management.

PROGRAM-LEVEL OUTCOMES

1. Understand and apply practices used in the management of retail stores.
2. Identify the basics of information technology and apply software applications to enhance efficiency of business functions.
3. Create effective oral and written business communications using modern communication technologies.
4. Apply critical thinking and analytical skills in decision making and problem solving.

BUSINESS (BUS)

1A FINANCIAL ACCOUNTING

4 UNITS

Explores financial accounting, its importance and how it is used by internal and external users as a decision-making tool. Covers accounting information systems; application of Generally Accepted Accounting Principles (GAAP) and International Financial Reporting Standards (IFRS) to value assets, liabilities, and equity; preparation, interpretation, and analysis of financial statements. Includes topics on cash flow statement, cash and accrual accounting concepts, merchandising operation, internal controls and ethics, reporting and accounting for receivables, payables, long-term assets and liabilities, inventory, depreciation, stockholders' equity, stocks and bonds. Strongly recommended: Business 7. 4 hours lecture, 1 hour laboratory. Transfer: CSU; UC; C-ID: ACCT 110.

1B MANAGERIAL ACCOUNTING

4 UNITS

Examines how managers use accounting information in decision-making, planning, directing, operating, and controlling. Emphasis on cost terms and concepts, cost structure, cost behavior, cost-volume-profit analysis, profit planning, budgeting, budgetary controls, cost controls, accounting for manufacturing costs and ethics. Prerequisite: Business 1A (completed with a grade of "C" or higher). 4 hours. Transfer: CSU; UC; C-ID: ACCT 120.

2 INTERMEDIATE ACCOUNTING

4 UNITS

Fundamental accounting standards and concepts, environment, framework, procedure and reporting for assets, liabilities, expenditures, and net income. Prerequisite: Business 1A (completed with a grade of "C" or higher). 4 hours. Transfer: CSU.

3 TAXATION OF INDIVIDUALS

3 UNITS

Preparation of Federal and California income tax returns for individuals through the absorption and application of income tax law, theory, practice. Completion of various tax forms, including Form 1040 (Individual), Schedules A (Itemized Deductions), B (Interest and Dividends), C (Profit or Loss from a Business), and D (Capital Gains and Losses). Other topics include depreciation, tax credits, tax planning, and tax research. 3 hours lecture. Transfer: CSU

**4 COST ACCOUNTING****3 UNITS**

Principles of cost build up and techniques for gathering cost, cost control, job order, process costing, managerial use of cost data, emphasis on application of principles. Prerequisite: Business 1B (completed with a grade of "C" or higher). 3 hours. Transfer: CSU.

5 AUDITING**3 UNITS**

Examines philosophy, environment, principles, and practices of financial statements audits. Topics include Generally Accepted Auditing Standards (GAAS), Sarbanes-Oxley Act regulatory environment, professional ethics, auditor's responsibilities and legal liability; fraud, internal controls and audit risk; audit planning, audit procedures, sampling tools, audit evidence, documentation, opinions and reports. Prerequisite: BUS 1A (completed with a grade of "C" or higher). Strongly Recommended: BUS 2. 3 hours. Transfer: CSU.

7 ACCOUNTING FOR SMALL BUSINESS**3 UNITS**

Bookkeeping practices and accounting cycle for service and merchandising sole proprietorship. Double-accounting entry system (debits and credits), books of original entry (journals), ledgers, adjusting and closing entries, income statement, balance sheets, and statement of owner's equity, cash, banking activities, payroll, special journals, merchandising firms. 3 hours lecture, 1 hour laboratory. Transfer: CSU.

8 PAYROLL ACCOUNTING**3 UNITS**

The laws, principles and procedures of payroll accounting in both manual and computerized environments. Concepts covered include preparation of payroll records and reports; payroll law and practices; computation of taxes, including Social Security, federal income tax, state income taxes, and unemployment taxes and voluntary withholdings. Strongly recommended: Business 1A or Business 7 or equivalent. 3 hours lecture. Transfer: CSU.

10 BUSINESS LAW**4 UNITS**

Legal setting in which business operates, with emphasis on legal reasoning and resolution, contracts, torts, intellectual property, agency and employment law, partnerships and corporations. 4 hours. Transfer: CSU; UC; C-ID: BUS 125. (UC credit/unit limitations may apply).

11 GOVERNMENTAL AND NONPROFIT ACCOUNTING**3 UNITS**

A study of accounting, budgeting, auditing, fiscal procedures and financial records of governmental agencies such as state, county and municipal governments, as well as universities and colleges, hospitals, and certain nonprofit organizations. Prerequisite: BUS 7 or 1A. 3 hours. Transfer: CSU.

12 INTRODUCTION TO BUSINESS**3 UNITS**

Survey of the private enterprise system and basic business concepts, business economics, types of business ownership, ethics, globalization, and organizational functions (management, marketing, accounting, human resources, and finance). Provides a multidisciplinary examination of how culture, society, economic systems, legal, international, political, financial institutions, and human behavior interact to influence an organization's policies and practices within the U.S. and a global environment. Prerequisite: BUS 1A (completed with a grade of "C" or higher). 3 hours. Transfer: CSU; UC; C-ID: BUS 110.

13 ADVANCED TOPICS IN ACCOUNTING**4 UNITS**

Subject matters include current and long-term liabilities, stockholders' equity, investments, pension and post-retirement benefits, leases, revenue recognition, cash flow statements, and full disclosure in financial reporting. 4 hours lecture. Transfer: CSU.

14 BUSINESS COMMUNICATIONS**3 UNITS**

Theory and application of written and oral communications in a professional business environment: organization of messages, editing for tone and polish, presentation techniques, meeting management, job search communications. Strongly recommended: Eligibility for English 1A. 3 hours lecture, 1 hour laboratory. Transfer: CSU.

15 BUSINESS ENGLISH**3 UNITS**

Study of the English language from a business perspective, including grammar, punctuation, spelling, business vocabulary, and basic business document preparation. Strongly recommended: Eligibility for English 101B. 3 hours lecture, 1 hour laboratory. Transfer: CSU.

16 BUSINESS MATHEMATICS**3 UNITS**

Mathematics to solve typical business problems including banking, simple interest, compound interest, installment sales, trade and cash discounts, markup percents, pricing, discounting notes and drafts, payroll, insurance, statistics, stocks, bonds, and mutual funds. 3 hours. Transfer: CSU.

17 BUSINESS ETHICS AND SOCIETY**3 UNITS**

Survey of past and current behavior of business in American society. Examines the ethical, political, social issues confronting organizations and the organizations' response and obligations in responding to these issues. Discusses the responsibility of business towards customers, employees, stockholders, competitors, suppliers, government and the community at large. 3 hours. Transfer: CSU; CSU/GE.

20 LAW AND SOCIETY**3 UNITS**

Introduction to the American legal system, including both theoretical and practical perspectives on the relationship of law to individuals and society. Includes the U.S. Constitution, criminal law system, civil dispute resolution, consumer rights, interpersonal and property rights, and the laws of the workplace. If you are a Business major, take Business 10 instead of this course. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).



21 HUMAN RESOURCE MANAGEMENT 3 UNITS

Introduction to the management of human resources and an understanding of the impact and accountability to the organization in terms of human resource activities. Global human resource strategies, social and organizational realities, legal implications affecting people at work, union/non-union practices, comparable work, employee compensation, benefits, and employee rights. 3 hours. Transfer: CSU

22 INTRODUCTION TO MANAGEMENT 3 UNITS

Principles and concepts of traditional management tasks, contemporary management challenges including human relations, diversity, quality, social responsibility and ethics, the global environment, human resource management, business communications, competitiveness, motivation, leadership and teamwork. 3 hours. Transfer: CSU.

25 TAXATION OF BUSINESS ENTITIES 3 UNITS

A study of current Federal income tax law as it relates to sole proprietorships, corporations (C corps, S corps), and partnerships (General and Limited Partnerships, Limited Liability Companies, and Limited Liability Partnerships). California tax law differences will be highlighted. Prerequisite: BUS 7 (completed with a grade of "C" or higher) or, BUS 1A (completed with a grade of "C" or higher). 3 hours lecture. Transfer: CSU.

26 SMALL BUSINESS MANAGEMENT 3 UNITS

Application of management principles to the selection, establishment, and operation of a small business. Emphasis on the problems encountered by the small manufacturer or merchant and their solutions. Strongly recommended: Business 1A or 7. 3 hours. Transfer: CSU.

28 HUMAN RELATIONS IN THE WORKPLACE 3 UNITS

Business concepts of individual, group, and organization human behavior as they affect human relations, performance, and productivity within the workplace. Strategies and techniques that influence communications, employee leadership and interactions among people—including cultural diversity and its impact—are explored. 3 hours. Transfer: CSU.

32 RETAIL STORE MANAGEMENT 3 UNITS

Principles and practices used in the management of retail stores, includes site selection, layout, organization, staffing, positioning, customer service, promotional techniques, buying, pricing, store security, and information systems. 3 hours. Transfer: CSU

33 ACCOUNTING ETHICS 3 UNITS

A comprehensive study of ethical issues that accountants must address in the various sectors of accounting. Topics include general principles of ethics applied to accounting, personal responsibilities, the AICPA Code of Professional Conduct, tax/audit/accounting issues, confidentiality, independence, conflicts of interest, discreditable acts, whistleblower duties, and the Sarbanes-Oxley Act. Prerequisite: BUS 1A. Transfer: CSU.

34 INTRODUCTION TO ADVERTISING 3 UNITS

Contributions of advertising to integrated marketing communication, including coordination and development of sales, relationship marketing, promotion programs, media selection, copy writing, layout, research and budgeting. 3 hours lecture. Transfer: CSU.

36 INTRODUCTION TO MARKETING 3 UNITS

Survey of marketing, including consumer behavior, company and environmental analysis, market segmentation, demographic analysis, product development, pricing, promotion, and distribution. 3 hours. Transfer: CSU; CSU/GE.

40 INTERNATIONAL BUSINESS 3 UNITS

Exploration of major factors involved in developing international trade. An overview of globalization, its impact on both Western and non-Western societies, theories of global trade, monetary environment, foreign market analysis, sociocultural forces, global ethics, global political and economic institutions, and international operations. Emphasis on current events in the global business environment. 3 hours. Transfer: CSU.

42 GREEN BUSINESS PRACTICES 3 UNITS

Practical projects and activities to increase profitability and efficiency by becoming more socially and environmentally responsible and responding to changing cultural, economic, competitive, and legal imperatives embedded within the "green" initiatives. 3 hours. Transfer: CSU.

43 PERSONAL FINANCIAL PLANNING 3 UNITS

Focuses on the time value of money, budgeting, use of credit, investing, taxation of personal income and assets, types of insurance and risk management, health care planning, retirement planning, and estate planning. 3 hours lecture. Transfer: CSU

44 INTRODUCTION TO INVESTMENTS 4 UNITS

Application of investment principles and guidelines, including the various types of investments and asset classes. Securities markets, individual portfolio planning, basic risk and return considerations and basic investment alternatives, fundamental analysis, and a general overview of technical analysis. The course covers an overview of the corporate bond market, government securities, valuation of fixed-income securities, and investment companies. Course topics include basic calculations of the present and future time value of money and basic financial ratios. Strongly recommended: eligibility for Mathematics 65. (May not receive credit if Business 81 has been completed.) 4 hours. Transfer: CSU.

45 GREEN AND SOCIALLY RESPONSIBLE INVESTING 3 UNITS

Investment principles of Green and Socially Responsible Investing. Analysis of markets and firms with a focus on environmentally and socially responsible businesses. Study of investment basics including risk and return considerations. Equities and Mutual Funds. Creation of a Green and/or Socially Responsible investment portfolio. 3 hours. Transfer: CSU.

**50A SKILLS FOR SUPERVISORS****1 UNIT**

This course will provide survival skills for new supervisors and those who aspire to move to managerial positions. Necessary skills of time management, leadership, planning, motivation, conducting meetings, communication, handling stress, conflict, and performance appraisals will be discussed. Students will involve in a variety of management exercises, discussions, current trends in supervision, and real-world case studies. 1 hour. Transfer: CSU.

50B BUSINESS ETIQUETTE AND PROFESSIONALISM**1 UNIT**

Principles of American and international business etiquette for the business professional: introductions, conversational techniques, professional appearance, entertainment, telephone and computer etiquette and more. 1 hour. Transfer: CSU.

50C INTERVIEWING FOR SUCCESS**1 UNIT**

(May be repeated 3 times)

Principles and techniques of successful employment interviews: interview preparation, selling your qualifications, managing difficult qualifications, following up on the interview. 1 hour. Transfer: CSU.

50D RESUMES AND JOB APPLICATION LETTERS**1 UNIT**

Research and preparation of persuasive employment search documents, including company research, self-assessment, document composition and format. Includes resumes, job application letters, and follow up communications. 1 hour. Transfer: CSU.

50F DEVELOPING A BUSINESS PLAN**1 UNIT**

Research, analysis and outlining logical and persuasive business plans, including market and competitive analysis, financial plans, management and operational plans, and plan outlines and executive summaries. 1 hour. Transfer: CSU.

50G NEGOTIATING SKILLS**1 UNIT**

Negotiation theory and skills development for business negotiations. Negotiating goals, strategies, key skills, and styles. 1 hour. Transfer: CSU.

50J TIME MANAGEMENT SKILLS**1 UNIT**

Practical tips and tools to manage time in academic and business-related situations. Setting short-term and long-term goals. Prioritization of goals and activities. Developing plans; organizing your workplace. Typical time wasters/time leaks, including procrastination, and ways of overcoming them. 1 hour. Transfer: CSU.

50K LISTENING SKILLS**1 UNIT**

Examination of listening styles and skill development for the business environment. Includes exploration of the benefits of listening, listening attitudes, and tips for improving listening. 1 hour. Transfer: CSU.

50L CAREERS IN BUSINESS**1 UNIT**

Exploration of the wide variety of potential careers in business, and the educational preparation appropriate for those careers. Includes careers in accounting and finance, sales and marketing, real estate and insurance, human resource management, and management and supervision. 1 hour. Transfer: CSU.

50M WORKPLACE DIVERSITY**1 UNIT**

Tips and tools to value and manage diversity in the workplace. Overview of theoretical and legal perspectives, dimensions of diversity, the impact of diversity on the workplace. Case studies to acknowledge differences and successfully build relationships with people of diverse backgrounds. 1 hour lecture. Transfer: CSU.

50N DEALING WITH DIFFICULT PEOPLE**1 UNIT**

Techniques for resolving and preventing interpersonal conflict in the workplace. 1 hour. Transfer: CSU.

50P QUALITY CUSTOMER SERVICE**1 UNIT**

Techniques and tools to understand customer expectations, and to exceed those expectations. Includes analysis of customer needs, delivery of quality customer service, and dealing with challenging customers to win customer loyalty. 1 hour. Transfer: CSU.

70 HEALTH CARE FINANCIAL MANAGEMENT**3 UNITS**

Overview of finance and accounting in health care organizations, including the financial structure of both for profit and non-profit healthcare organizations. Particular emphasis on private and third party payment systems, reporting requirements, accounts receivable management, budgeting, and resource allocation. Strongly recommended: Business 7. 3 hours. Transfer: CSU.

71 HEALTH CARE LAW**3 UNITS**

Survey of the unique legal issues in health care, including HIPAA (patient privacy laws and regulations), Medicare and Medicaid reimbursement requirements, negligence/malpractice issues, advance directives, and employment law for medical staff and independent contractors. 3 hours. Transfer: CSU.

72 LEADERSHIP OF HEALTH CARE ORGANIZATIONS**3 UNITS**

Survey of key issues and effective management approaches in health care organizations, including organizational structure and governance, information technology, facilities and guest services, planning, marketing and strategy. 3 hours. Transfer: CSU.

87 PROJECT MANAGEMENT CERTIFICATION EXAM PREPARATION 3 UNITS

The Project Management Institute (PMI) offers two credentials for project managers who want formal recognition of their project knowledge, in particular, the Project Management Professional (PMP) certification for experienced project managers and the Certified Associate Project Manager (CAPM) credential for entry-level project managers. These are well-recognized credentials for project managers, both those in the job market and those who want to work in a formal business project management environment. Both credentials require that applicants complete a comprehensive description of their experience and pass a certification exam. This course prepares students to complete the test application, study for, and pass, either the PMP or the CAPM examination, both based on the Project Management Body of Knowledge (PMBOK). Strongly recommended: Business 88 and 89. 3 hours. Transfer: CSU.

88 INTRODUCTION TO PROJECT MANAGEMENT 3 UNITS

Project management is the ability to define work efforts in terms of time, budget, and resource needs essential for business planning. Covers the forms, tools, and processes to plan and manage these efforts both efficiently and effectively. Strongly recommended: Computer Application Systems 50, or Computer Science 8 AND Computer Application Systems 54A. 3 hours. Transfer: CSU.

89 PROJECT PLANNING, SCHEDULING AND CONTROL 3 UNITS

A successful Project Manager relies on an effective management plan, which provides a baseline for monitoring progress, identifying variances, and taking timely action to mitigate the impact of problems. In this course, you learn how to create such a plan and implement it through to project completion and evaluation. It explores in greater detail the tools and techniques presented in Business 88. Strongly recommended: Business 88. 3 hours. Transfer: CSU.

92 EXCEL SPREADSHEETS FOR ACCOUNTING 2 UNITS

Fundamentals of using electronic spreadsheets (Microsoft Excel) for accounting principles. Focus on solving accounting problems and completing accounting projects with Microsoft Excel. Strongly recommended: Business 1A, Business 7, or equivalent AND Computer Application Systems 54A or Computer Application Systems 72E. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

93 QUICKBOOKS 2 UNITS

QuickBooks introduces the concepts of bookkeeping/accounting using the theory of double-entry bookkeeping. Learn to use the QuickBooks software for a set up, service business and merchandising business. Setting up chart of accounts, accounts receivable, accounts payable, inventory, payroll and preparation and analysis of financial statements. Strongly recommended: Business 1A, Business 7 or equivalent. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

94 MS PROJECT FUNDAMENTALS 1 UNIT

This hands-on course provides an overview of MS Project and its functionality. Conducted in a PC Lab environment, students will get an opportunity to work with the tool while receiving support from an experienced and knowledgeable instructor/coach. Students will have an opportunity to develop a project schedule from scratch, get comfortable with entering information into MS Project, then use the base schedule to understand and manage resource allocations, task assignments, and the project labor budget. MS Project also offers a depth of reporting functionality, and students will learn how to create and modify reports for their project communication needs. Strongly recommended: Business 88. 1 hour. Transfer: CSU.

95 WORK EXPERIENCE◊ 1-3 UNITS

College supervised on-the-job training. Paid or volunteer work experience, including an internship, in an occupation related to student's major or classes at Chabot. Cooperative effort between student, supervisor, and instructor to accomplish new work objective and broaden experiences for each semester enrolled. Corequisite: Business 96. 5-15 hours of employment per week. Transfer: CSU.

96 WORK EXPERIENCE SEMINAR◊ 1 UNIT

Provides the focal point for the coordination of the student's curriculum with college supervised employment/volunteering in the student's major field. Emphasis on building strong working relationships with supervisors, subordinates, co-workers. Issues pertaining to the modern workplace. Corequisite: Business 95. 1 hour. Transfer: CSU.

◊Refer to page 21 for program requirements.

138 BUSINESS ENGLISH SKILLS 2 UNITS

Study of the English language from a business perspective, including grammar, punctuation, spelling, and the basics of business writing.



CHEMISTRY (CHEM)

DEGREE:

AS-CHEMISTRY

The two-year program in chemistry provides the student with a broad background in inorganic chemistry and quantitative analysis. This program supports all physical and biological science majors in the allied health sciences and satisfies general education requirements.

CHEMISTRY

ASSOCIATE IN SCIENCE DEGREE

PROGRAM-LEVEL OUTCOMES

1. Apply the scientific method to experimentation, college and analyze data and communicate findings in written and oral formats.
2. Demonstrate ability to think, reason, and communicate critically, analytically and abstractly.

YEAR ONE

	UNITS
CHEM 1A General College Chemistry I	5
MTH 1 Calculus I	5
CHEM 1B General College Chemistry II	5
MTH 2 Calculus II	5

YEARTWO

	UNITS
CHEM 12A Organic Chemistry I	5
PHYS 4A General Physics I	5
CHEM 12B Organic Chemistry II	5
PHYS 4B General Physics II	5

General Education Units for A.S. Degree

For specific A.S. General Education courses refer to catalog section on A.S. Graduation Requirements.

REQUIRED MAJOR SPECIFIC G.E. COURSE:

Complete a minimum of 3 units from Graduation Requirements Area B (Natural Science)

Recommended course:

	Units
MTH 3 Multivariable Calculus	5
or	
MTH 4 Elementary Differential Equations	3
or	
MTH 6 Elementary Linear Algebra	3

TOTAL UNITS

40

CHEMISTRY (CHEM)

1A GENERAL COLLEGE CHEMISTRY I 5 UNITS

Introduction to atomic structure, bonding, stoichiometry, thermochemistry, gases, matter and energy, oxidation-reduction, chemical equations, liquids and solids, solutions, chemical energetics and equilibrium. Laboratory includes both quantitative and qualitative experiments. Prerequisite: Mathematics 55, Chemistry 31 (all courses completed with a grade of "C" or higher) or appropriate skill level demonstrated through the Chemistry Placement Process. 3 hours lecture, 6 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: CHEM 120S (in combination with CHEM 1B). (UC credit/unit limitations may apply).

1B GENERAL COLLEGE CHEMISTRY II 5 UNITS

Continuation of Chemistry 1A. Chemical energetics and equilibria, solutions and ionic equilibria, acid-base chemistry, electrochemistry, coordination chemistry, kinetics, nuclear chemistry, organic chemistry, and the chemistry of family groups of the periodic table. Laboratory emphasizes quantitative techniques, including instrumentation, and qualitative analysis. Prerequisite: Chemistry 1A (completed with a grade of "C" or higher). 3 hours lecture, 6 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: CHEM 120S (in combination with CHEM 1A). (UC credit/unit limitations may apply).



5 QUANTITATIVE ANALYSIS**4 UNITS**

Emphasizes the theory and practice of gravimetric, volumetric, potentiometric, spectrophotometric and chromatographic methods of analysis. Focuses on calibration, standardization, method development and validation procedures, sampling and data handling. Intended for chemistry, biochemistry, chemical biology, chemical engineering, pharmacy, biology, molecular biology and microbiology majors. Prerequisite: Chemistry 1B (completed with a grade of "C" or higher). 2 hours lecture, 6 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC.

10 INTRODUCTION TO CHEMISTRY**4 UNITS**

A non-mathematical survey of the basic concepts of chemistry that stresses a humanistic approach. Designed for non-science majors. Topics include basic structure, properties and reactivity of matter and energy as they relate to environmental issues, nutrition, medicine, material science and other current topics. May not be taken for credit if Chemistry 1A or Chemistry 31 has been completed. 3 hours lecture, 3 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).

12A ORGANIC CHEMISTRY I**5 UNITS**

The structure, nomenclature, bonding, stereochemistry, conformational analysis, and physical properties in relation to alkanes, alkyl halides, alkenes, alkynes, alcohols, and ethers. Emphasis on reactivity and reaction mechanisms. Multi-step synthesis is also introduced. Laboratory work includes microscale, semi-microscale, spectroscopic and chromatographic techniques. Chemistry 12A is the first semester in a year course in organic chemistry designed for students majoring in chemistry and related disciplines. Prerequisite: Chemistry 1B (completed with a grade of "C" or higher). 3 hours lecture, 6 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: CHEM 150; CHEM 160S (in combination with CHEM 12B).

12B ORGANIC CHEMISTRY II**5 UNITS**

Continuation of Chemistry 12A with an introduction to the chemistry of dienes, aromatics, amines, carbanions, carboxylic acid derivatives, aldehydes, ketones and biochemical topics focusing on structure, synthesis, and mechanisms of reaction. Laboratory work in basic techniques, synthetic methods, qualitative, spectroscopic, and chromatographic analysis techniques. Chemistry 12B is the second semester in a year course in Organic Chemistry designed for students majoring in Chemistry related disciplines. Prerequisite: Chemistry 12A (completed with a grade of "C" or higher). 3 hours lecture, 6 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: Chem 160S (in combination with CHEM 12A).

30A INTRODUCTORY AND APPLIED CHEMISTRY I**4 UNITS**

Chemistry of inorganic compounds, atomic theory, bonding, equations, gas laws, solutions, acid-base theory and oxidation-reduction. Designed to meet the requirements of certain programs in allied health and technological fields and for general education. Prerequisite: Mathematics 53, 53B, 65, 65B or 65L (completed with a grade of "C" or higher). 3 hours lecture, 3 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: CHEM 101. (UC credit/unit limitations may apply).

30B INTRODUCTORY AND APPLIED CHEMISTRY II**4 UNITS**

Continuation of Chemistry 30A with emphasis on organic and biochemical concepts related to human physiological systems. Prerequisite: Chemistry 30A (completed with a grade of "C" or higher). 3 hours lecture, 3 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: CHEM 102. (UC credit/unit limitations may apply).

31 INTRODUCTION TO COLLEGE CHEMISTRY**4 UNITS**

Elementary concepts of chemistry with emphasis on mathematical calculations; includes nomenclature, stoichiometry, atomic structure, gas laws and acids and bases. Designed for majors in science and engineering. Prerequisite: Mathematics 55 (completed with a grade of "C" or higher). 3 hours lecture, 3 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).



CHINESE (CHIN)

1A BEGINNING CHINESE

5 UNITS

Introduction to the Chinese cultures of the world featuring the study and practice of the four language skills (listening, speaking, reading, and writing) of Mandarin Chinese. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Strongly recommended: eligibility for English 1A. 5 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE.

1B ELEMENTARY CHINESE

5 UNITS

Further study of the Chinese cultures of the world featuring the acquisition of the four language skills (listening, speaking, reading, and writing) of Mandarin Chinese begun in Chinese 1A. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: Chinese 1A (completed with a grade of "C" or higher). 5 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; IGETC. (Corresponds to 2 years high school study.)

50A CHINESE CONVERSATION AND CULTURE I 3 UNITS

Development of a basic understanding of spoken Mandarin through pronunciation, vocabulary, and applied grammar. Introduction to the everyday culture of Chinese-speaking people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. 3 hours lecture, 1 hour laboratory. Transfer: CSU.

50B CHINESE CONVERSATION AND CULTURE II 3 UNITS

Development of an understanding of spoken Mandarin through pronunciation, vocabulary, and applied grammar. Further study of the life and culture of the Chinese-speaking people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: Chinese 50A (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

50C CHINESE CONVERSATION AND CULTURE III 3 UNITS

Continuation of skills developed in Chinese 50B. Continues to develop an understanding and application of conversational Chinese. Pronunciation, vocabulary, sentences and applied grammar will be covered. Introduces the everyday life and traditional culture of Chinese-speaking people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: Chinese 50B (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

50D CHINESE CONVERSATION AND CULTURE IV 3 UNITS

Continuation of skills developed in Chinese 50C. Continues to develop and apply conversational Chinese skills. Pronunciation, vocabulary, sentences and applied grammar will be covered. Introduces the daily life and cultural traditions of Chinese-speaking people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: Chinese 50C (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

COLLOQUIA

COLLOQUIA

1 UNIT

(May be repeated 3 times)

A colloquium is a group of students who meet with an instructor over a period of one semester to consider ideas or documents of continuing importance, or a special topic. The purpose is to stimulate serious thought through discussion and analysis. A student is limited to one colloquium each semester. A colloquium may be offered under any subject area contained in the Catalog, using the number 9. Open to all students not on probation. 2 hours. Transfer: CSU.

COMMUNICATION STUDIES (COMM)

DEGREE:

AA-T-COMMUNICATION STUDIES

AA-SPEECH COMMUNICATION

CERTIFICATE OF PROFICIENCY:

FORENSICS

INTERPERSONAL COMMUNICATION

RHETORIC

The Communication Studies program at Chabot College has two program-level outcomes. First, we encourage students to pursue and evaluate knowledge through the skills of inquiry, research, and critical thinking. Additionally, students of Communication Studies will demonstrate effective skills in written and oral communication.

Communication Studies explores the complexity of human interaction. An Associate in Arts in Communication Studies for Transfer is a valuable asset for people in every industry. The National Association of Colleges and Employers, in a 2010 survey, ranked the top five desired candidate skills/qualities: (1) communication skills; (2) analytical skills; (3) teamwork skills; (4) technical skills; and (5) strong work ethic. Because Communication Studies combines theoretical understanding with practical skills development, either of our Associate in Arts degrees can serve as a strong foundation for any upper division coursework or graduate training program.

From critical listening and thinking skills to intercultural communication competency; from performing business presentations to oral interpretation of literature; from understanding group dynamics to developing persuasive strategies, Communication Studies offers courses with contextual learning experiences for greater success in work, relationships, and society. Our graduates go on to careers in human resources, public relations, advertising, journalism, law, hospitality and customer service, corporate training and politics. Many continue their education at the graduate and doctoral levels.



Successful completion of the Associate in Arts in Communication Studies for Transfer provides the student with the opportunity to seamlessly transfer to a CSU in Communication Studies or related major.

COMMUNICATION STUDIES

ASSOCIATE IN ARTS FOR TRANSFER DEGREE

Communication Studies explores the complexity of human interaction. A degree in Communication Studies is a valuable asset for people in every industry. The National Association of Colleges and Employers, in a 2010 survey, ranked the top five desired candidate skills/qualities: (1) communication skills; (2) analytical skills; (3) teamwork skills; (4) technical skills; and (5) strong work ethic. Because Communication Studies combines theoretical understanding with practical skills development, either of our Associate in Arts degrees can serve as a strong foundation for any upper division coursework or graduate training program. From critical listening and thinking skills to intercultural communication competency; from performing business presentations to oral interpretation of literature; from understanding group dynamics to developing persuasive strategies, Communication Studies offers courses with contextual learning experiences for greater success in work, relationships, and society. Our graduates go on to careers in human resources, public relations, advertising, journalism, law, hospitality and customer service, corporate training and politics. Many continue their education at the graduate and doctoral levels. Successful completion of the transfer degree in Communication Studies guarantees the student acceptance to a local California State University to pursue a baccalaureate degree with Junior status.

PROGRAM-LEVEL OUTCOMES

1. Pursue and evaluate knowledge through the skills of inquiry, research and critical thinking.
2. Demonstrate effective skills in written and spoken communication.

REQUIRED CORE (6 UNITS)

	UNITS
COMM 1 Fundamentals of Speech Communication	3
COMM 50 Introduction to Communication Studies	3

LIST A (CHOOSE TWO-6 UNITS)

	UNITS
COMM 3 Group Communication	3
COMM 10 Interpersonal Communication	3
COMM 46 Argumentation and Debate	3

LIST B (CHOOSE ONE-3 UNITS)

	UNITS
Any List A course not used above	3
COMM 2 Oral Interpretation of Literature	3
COMM 11 Intercultural Communication	3
COMM 20 Persuasion and Communication	3
COMM 48 Activities in Forensics	1 - 4

LIST C (CHOOSE ONE-3 UNITS)

	UNITS
Any List A or B course not used above	
COMM 6 Introduction to Performance Studies	3
COMM 12 Gender, Sexual Identity, and Communication	3
ANTH 3 Social and Cultural Anthropology	3
MCOM 41 Introduction to Mass Communications	3
PSY 1 General Psychology	3
SOCI 1 Principles of Sociology	3

General Education Courses

Complete either the CSU/General Breadth or the (CSU) IGETC pattern.
37- 39 UNITS

(Possible double counting 18 units)

CSU transfer electives as needed to reach 60 CSU transferable units.

Total units: 60

All courses making up the minimum must be transferable to CSU, and a minimum GPA of 2.0 must be maintained.

TOTAL UNITS

18

SPEECH COMMUNICATION

ASSOCIATE IN ARTS DEGREE

The National Association of Colleges and Employers rated "oral communication" highest among attributes necessary in achieving professional success. More and more businesses and occupations prefer to hire employees who possess strong communication skills. There are opportunities for working in corporate training, consulting, marketing, sales, public relations, human resources, television, radio, telecommunications, and political campaigning. A strong background in communication is also looked upon favorably by four-year universities when evaluating applicants. In addition, effective communication skills can assist in individual development and enhancement of human relations.

PROGRAM-LEVEL OUTCOMES

1. Pursue and evaluate knowledge through the skills of inquiry, research and critical thinking.
2. Demonstrate effective skills in written and spoken communication.

YEAR ONE

	UNITS
COMM 1 Fundamentals of Speech Communication	3
COMM 10 Interpersonal Communication	3
COMM 2 Oral Interpretation of Literature	3
COMM 46 Argumentation and Debate	3

YEAR TWO

	UNITS
Option	6

General Education Courses

For specific General Education courses refer to catalog section on Graduation Requirements.

**Option-choose six units from the following:**

	Units
MCOM 44 Radio & Television Announcing	3
COMM 2B Oral Interpretation of Literature II	3
COMM 3 Group Communication	3
COMM 5 Readers' Theater	3
COMM 11 Intercultural Communication	3
COMM 30 Elements of Speech	3
COMM 48 Activities in Forensics	1 - 4
THTR 25 Fundamentals of Stage Speech	0
TOTAL UNITS	18

FORENSICS**CERTIFICATE OF PROFICIENCY**

This certificate provides students with advanced training in public speaking and debate, especially through competition.

CAREER OPPORTUNITIES IN COMMUNICATION STUDIES

Many forensics students go on to receive degrees in Communication and a large number go on to graduate school programs in Communication and Law. These students are more likely to teach and coach forensics, or enter legal careers.

REQUIRED COURSES

	UNITS
COMM 1 Fundamentals of Speech Communication	3
COMM 2 Oral Interpretation of Literature	3
COMM 46 Argumentation and Debate	3
COMM 48 Activities in Forensics	5
TOTAL UNITS	14

INTERPERSONAL COMMUNICATION**CERTIFICATE OF PROFICIENCY**

This certificate provides students with interpersonal and intercultural competence for greater success in the workplace and personal relationships.

CAREER OPPORTUNITIES IN COMMUNICATION STUDIES

This certificate can enhance resumes for students wishing to work in health care settings, customer service positions, and other business environments.

REQUIRED COURSES

	UNITS
COMM 3 Group Communication	3
COMM 10 Interpersonal Communication	3
COMM 11 Intercultural Communication	3
COMM 12 Gender, Sexual Identity, and Communication	3
TOTAL UNITS	12

RHETORIC**CERTIFICATE OF PROFICIENCY**

This certificate prepares students to become strong verbal and nonverbal communicators and provides a solid foundation in the study of Rhetoric.

CAREER OPPORTUNITIES IN COMMUNICATION STUDIES

Students who study Rhetoric often go into legal careers, but many students pursue careers in advertising, public relations, film, tv, and other emerging technological fields. Rhetoric students are often very successful in gaining acceptance into graduate programs, especially in Communication, Business, Law, and Media Studies.

REQUIRED COURSES

	UNITS
COMM 1 Fundamentals of Speech Communication	3
COMM 20 Persuasion and Communication	3
COMM 46 Argumentation and Debate	3
COMM 50 Introduction to Communication Studies	3
TOTAL UNITS	12

COMMUNICATION STUDIES (COMM)**1 FUNDAMENTALS OF SPEECH COMMUNICATION 3 UNITS**

Fundamentals of speech communication; emphasis on developing, stating, organizing, and researching ideas, and presenting to an audience; includes developing the faculties of critical listening and problem-solving. Strongly recommended: Eligibility for English 1A. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: COMM 110.

2 ORAL INTERPRETATION OF LITERATURE 3 UNITS

Development of skill in reading quality literature aloud; practice in writing scholarly criticism of the literature presented orally. 3 hours. Transfer: CSU; UC; CSU/GE; C-ID: COMM 170.

3 GROUP COMMUNICATION 3 UNITS

Communication in small group situations. Role of communication in various group processes, including norms, roles, leadership and decision-making, with application to modern concepts of organizational communication. Includes participation in simulation exercises and group activities. 3 hours. Transfer: CSU; UC; C-ID: COMM 140.

6 INTRODUCTION TO PERFORMANCE STUDIES 3 UNITS

Exploration of historically influential activist performances and contemporary performance art/installation pieces. Development of an understanding of basic interdisciplinary performance theories from everyday life, ritual, and on-stage. Emphasis on creating and observing performances as tools for social critique. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

10 INTERPERSONAL COMMUNICATION 3 UNITS

Exploration, discussion, and evaluation of the components of verbal and non-verbal communication processes. Strongly recommended: Eligibility for English 1A or 52A. 3 hours. Transfer: CSU; UC; CSU/GE; C-ID: COMM 130.

11 INTERCULTURAL COMMUNICATION 3 UNITS

Intercultural communication with a focus on the analysis and comparisons of message perception and transmission in interactions between people from different cultures. Particular attention to values and meanings reflected in American culture, specifically the crisscrossing dynamics of race, ethnicity, gender, religion and class. Emphasis on practical application of skills for effective communication between people of different domestic and international cultures. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: COMM 150. (UC credit/unit limitations may apply).

12 GENDER, SEXUAL IDENTITY, AND COMMUNICATION 3 UNITS

Processes and theories of gender and communication; emergence of sexual identity and orientation in society; the power of language and stereotypes in private discourse and public dialogue; the impact of historical, social, ethical, cultural, and psychological factors on gendered communication in multiple contexts. Strongly recommended: English 1A. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

20 PERSUASION AND COMMUNICATION 3 UNITS

Investigation and development of persuasive techniques, strategies, and theories throughout ancient and modern times. Topics will include rhetoric, propaganda, and formal/informal argumentation. Strongly recommended: English 1A and Communication Studies 1. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

46 ARGUMENTATION AND DEBATE 3 UNITS

Analysis of contemporary questions through written and spoken discourse. Analysis, criticism, and synthesis of contemporary moral, political, economic and philosophical issues of a diverse, multicultural society, using traditional and modern models of argumentation. Strongly recommended: English 1A. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: COMM 120.

48 ACTIVITIES IN FORENSICS 1-4 UNITS

(May be repeated 3 times)

Intercollegiate competition in the areas of public speaking and oral interpretation. Other activities include performance in workshops, festivals, concert readings, and the community. 4-16 laboratory hours. Transfer: CSU.

50 INTRODUCTION TO COMMUNICATION STUDIES 3 UNITS

A survey of the discipline of Communication Studies with emphasis on multiple epistemological, theoretical, and methodological issues relevant to the systematic inquiry and pursuit of knowledge about human communication. This course explores basic history, assumptions, principles, processes, variables, methods, and specializations of human communication as an academic field of study. Strongly recommended: Eligibility for English 1A. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: COMM 180.

70A INTRODUCTION TO COMMUNICATION TUTOR TRAINING 2 UNITS

An introduction to tutor training for the Communication Laboratory. Through lecture and hands-on tutoring experience students will demonstrate lab procedure, tutor strategies, and knowledge of basic components of public speaking. Prerequisite: COMM 1 or COMM 2A or COMM 10 or COMM 20 or COMM 46 or COMM 50 (each completed with a grade of "C" or higher) and instructor recommendation required. 1 hour lecture, 3 hours laboratory. Transfer: CSU.

70B EXPERIENCED COMMUNICATION TUTOR TRAINING 2-3 UNITS

Tutor training for the Communication Laboratory. Through lecture and hands-on tutoring, experienced tutors with at least one semester of lab experience will demonstrate lab procedure, tutor strategies, thorough knowledge of basic components of public speaking, and ability to role-model these skills for new tutors. Prerequisite: COMM 70A (completed with a grade of "C" or higher). 1 hour lecture, 3-6 hours laboratory. Transfer: CSU.

COMMUNITY INTEREST STUDIES

COMMUNITY INTEREST STUDIES NON-CREDIT

Community interest courses include both full-term and short-term courses in a wide variety of course patterns, field studies, seminars, workshops, and any other such educational activities that will meet the educational needs of the college community. May be offered under any course title contained in the Catalog, using the numbers 200 through 299.



COMPUTER APPLICATION SYSTEMS (CAS)

DEGREE:

AS—ADMINISTRATIVE ASSISTANT
 AS—INFORMATION TECHNOLOGY
 AS—SOFTWARE SPECIALIST

CERTIFICATE OF ACHIEVEMENT:

ADMINISTRATIVE ASSISTANT
 INFORMATION TECHNOLOGY
 SOFTWARE SPECIALIST

The Computer Application Systems program includes microcomputer applications, programming languages and computer support of business organizations. The program offers state-of-the-art training in the use of business application software and hardware to prepare students for professional careers, transfer study, and/or personal use. Students receive individual hands-on training in laboratory facilities. Faculty work closely with business and industry to ensure relevant training.

ADMINISTRATIVE ASSISTANT

ASSOCIATE IN SCIENCE DEGREE

The Administrative Assistant Associate in Science degree program will cover a wide knowledge base needed for the workplace environment in large organizational settings. The program will cover a full array of software application programs, business communications and accounting skills. Additionally the degree will include general education which will help students develop a sense of social responsibility; strong analytical, communication, intellectual, practical skills that the student can apply in real-world setting.

CAREER OPPORTUNITIES

Secretary, Executive Secretary, Administrative Assistant, Executive Assistant

CORE COURSES		UNITS
BUS 7	Accounting for Small Business	3
CAS 50	Introduction to Computer Application Systems	3
CAS 54	Microsoft Excel	3
CAS 58	Microsoft Access	3
CAS 71	Keyboarding & 10 Key	3
CAS 88	Microsoft Word	3

Program-Based General Education Requirement:		Units
BUS 14	Business Communications	3

General Education Requirements for Associates in Science Degree **Units**

For specific A.S. General Education courses refer to catalog section on A.S. Graduation Requirements.

TOTAL UNITS **18**

INFORMATION TECHNOLOGY

ASSOCIATE IN SCIENCE

The Associate's degree in Information Technology prepares students to either enter the workforce as an entry-level computer or network support technician or pursue additional education in managing information systems. Computer support technicians provide technical assistance to computer users. They may answer questions or resolve computer problems for clients in person, or via telephone or electronically. They may provide assistance concerning the use of computer hardware and software, including printing, installation, word processing, electronic mail, and operating systems. Computer network technicians analyze, test, troubleshoot, and evaluate existing network systems, such as local area network (LAN), wide area network (WAN), and Internet systems or a segment of a network system. Perform network maintenance to ensure networks operate correctly with minimal interruption. Graduates of the A.S. Information Technology are prepared and eligible to sit for CompTIA's A+ Network+, and Linux certification exams. Optional elective courses prepare students for CompTIA's Security+, CCENT, CCNA, and EMC.

CAREER OPPORTUNITIES

Retail Salesperson, Customer Service Representative, Computer User Support Specialist, Computer Network Support Specialist, Network and Computer Systems Administrators, Computer Systems Analyst, Information Security Analyst.

CORE COURSES		UNITS
CAS 74	Introduction to Linux/Unix	3
CAS 83	Information & Communication Technology Essentials	4
CAS 92A	Introduction to Networks	3

Select one option (9 units)

Cloud Computing

CAS 85	Cloud Infrastructure and Services	3
CAS 86	Information Storage and Management	3
CAS 92B	Routing and Switching Essentials	3

or

Cyber Security

CAS 69	Introduction to Information Systems Security (Security+)	3
CAS 75	Introduction to Cybersecurity: Ethical Hacking (Whitehat Hacker)	3
CAS 76	Wireshark, TCP/IP Analysis and Network	3

or

Networking

CAS 92B	Routing and Switching Essentials	3
CAS 92C	Scaling Networks	3
CAS 92D	Connecting Networks	3

Required Major Specific G.E. Requirement:	Units
CAS 50 Introduction to Computer Application Systems	3

General Education Units For A.S. Degree:
For specific A.S. General Education courses refer to catalog section on A.S. Graduation Requirements.

TOTAL UNITS **19**

SOFTWARE SPECIALIST

ASSOCIATE IN SCIENCE DEGREE

The Software Specialist Associate of Science program includes microcomputer applications and computer support of business organizations. The program offers state of the art training in digital technologies preparing students for professional careers. Additionally the degree will include general education courses which will help students develop a sense of social responsibility; strong analytical, communication, intellectual, practical skills that the student can apply in real-world setting.

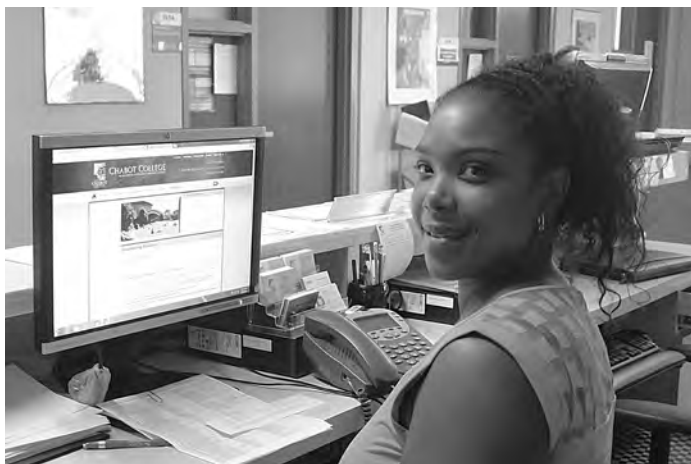
CAREER OPPORTUNITIES

Business Information Worker, Computer Operator, Data Entry, Digital Specialist, Technical Analyst, Web Designer, Illustrator, Digital Editor.

PROGRAM-LEVEL OUTCOMES

1. Recognize and apply appropriate information and hardware technology to achieve organizational goals.
2. Demonstrate and apply appropriate software applications to achieve organizational goals.
3. Understand basic hardware and software functions of a computer. Develop knowledge of technology applicable to the field, and proficiency in appropriate software.
4. Demonstrate knowledge of technology applicable to the field, and proficiency in appropriate software.

CORE COURSES	UNITS
CAS 54 Microsoft Excel	3
CAS 58 Microsoft Access	3
CAS 88 Microsoft Word	3



ELECTIVES	UNITS
Nine units may be selected from the following:	

ARCH 68	CAD for Architecture and Interior Design	3
BUS 92	Excel Spreadsheets for Accounting	2
BUS 93	QuickBooks	2
BUS 94	MS Project Fundamentals	1
DIGM 31A	Photoshop I	1.5
DIGM 31B	Photoshop II	1.5
DIGM 32A	Illustrator I	1.5
DIGM 32B	Illustrator II	1.5
DIGM 33A	InDesign I	1.5
DIGM 33B	InDesign II	1.5
DIGM 34	JavaScript for Designers	3
DIGM 35A	Building a Web Site I	1.5
DIGM 35B	Building a Web Site II	1.5
DIGM 36A	Video Editing I	1.5
DIGM 36B	Video Editing II	1.5
DIGM 37	Flash ActionScript	3
ID 68	CAD for Architecture and Interior Design	3

Program Based General Education Requirement:	Units
CAS 50 Introduction to Computer Application Systems	3

General Education Requirements for Associates in Science Degree

For specific A.S. General Education courses refer to catalog section on A.S. Graduation Requirements.

TOTAL UNITS **18**

ADMINISTRATIVE ASSISTANT

CERTIFICATE OF ACHIEVEMENT

The Administrative Assistant Certificate of Achievement program will cover a wide knowledge base needed for the workplace environment in large organizational settings. The program will cover a full array of software application programs, business communications and accounting skills.

CAREER OPPORTUNITIES IN COMPUTER APPLICATION SYSTEMS
Administrative Assistant, Clerk, Office Assistant.

CORE COURSES	UNITS	
BUS 7	Accounting for Small Business	3
BUS 14	Business Communications	3
CAS 50	Introduction to Computer Application Systems	3
CAS 54	Microsoft Excel	3
CAS 58	Microsoft Access	3
CAS 71	Keyboarding & 10 Key	3
CAS 88	Microsoft Word	3
TOTAL UNITS	21	



INFORMATION TECHNOLOGY

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Information Technology prepares students to either enter the workforce as an entry-level computer or network support technician or pursue additional education in managing information systems. Computer support technicians provide technical assistance to computer users. They may answer questions or resolve computer problems for clients in person, or via telephone or electronically. They may provide assistance concerning the use of computer hardware and software, including printing, installation, word processing, electronic mail, and operating systems. Computer network technicians analyze, test, troubleshoot, and evaluate existing network systems, such as local area network (LAN), wide area network (WAN), and Internet systems or a segment of a network system. Perform network maintenance to ensure networks operate correctly with minimal interruption. Graduates of the Information Technology are prepared and eligible to sit for CompTIA's A+ Network+, and Linux certification exams. Optional elective courses prepare students for CompTIA's Security+, CCENT, CCNA, and EMC.

CAREER OPPORTUNITIES IN COMPUTER APPLICATION SYSTEMS

Retail Salesperson, Customer Service Representative, Computer User Support Specialist, Computer Network Support Specialist, Network and Computer Systems Administrators, Computer Systems Analyst, Information Security Analyst.

CORE COURSES		UNITS
CAS 50	Introduction to Computer Application Systems	3
CAS 74	Introduction to Linux/Unix	3
CAS 83	Information & Communication Technology Essentials	4
CAS 92A	Introduction to Networks	3

Select one option (9 units) Units

Cloud Computing

CAS 85	Cloud Infrastructure and Services	3
CAS 86	Information Storage and Management	3
CAS 92B	Routing and Switching Essentials	3
	or	

Cyber Security

CAS 69	Introduction to Information Systems Security (Security+)	3
CAS 75	Introduction to Cybersecurity: Ethical Hacking (Whitehat Hacker)	3
CAS 76	Wireshark, TCP/IP Analysis and Network	3
	or	

Networking

CAS 92B	Routing and Switching Essentials	3
CAS 92C	Scaling Networks	3
CAS 92D	Connecting Networks	3

TOTAL UNITS 22

SOFTWARE SPECIALIST

CERTIFICATE OF ACHIEVEMENT

The Software Specialist Certificate of Achievement program includes microcomputer applications and computer support of business organizations. The program offers state of the art training in digital technologies preparing students for professional careers.

CAREER OPPORTUNITIES IN COMPUTER APPLICATION SYSTEMS

Computer Operator, Data Entry, Digital Specialist, Technical Analyst, Web Designer, Illustrator, Digital Editor.

PROGRAM-LEVEL OUTCOMES

1. Recognize and apply appropriate information and hardware technology to achieve organizational goals.
2. Demonstrate and apply appropriate software applications to achieve organizational goals.
3. Understand basic hardware and software functions of a computer
4. Develop knowledge of technology applicable to the field, and proficiency in appropriate software.
5. Demonstrate knowledge of technology applicable to the field, and proficiency in appropriate software.

CORE COURSES

CORE COURSES		UNITS
CAS 50	Introduction to Computer Application Systems	3
CAS 54	Microsoft Excel	3
CAS 58	Microsoft Access	3
CAS 88	Microsoft Word	3

ELECTIVES

Nine units may be selected from the following:

ELECTIVES		Units
ARCH 68	CAD for Architecture and Interior Design	3
BUS 92	Excel Spreadsheets for Accounting	2
BUS 93	QuickBooks	2
BUS 94	MS Project Fundamentals	1
DIGM 31A	Photoshop I	1.5
DIGM 31B	Photoshop II	1.5
DIGM 32A	Illustrator I	1.5
DIGM 32B	Illustrator II	1.5
DIGM 33A	InDesign I	1.5
DIGM 33B	InDesign II	1.5
DIGM 34	JavaScript for Designers	3
DIGM 35A	Building a Web Site I	1.5
DIGM 35B	Building a Web Site II	1.5
DIGM 36A	Video Editing I	1.5
DIGM 36B	Video Editing II	1.5
DIGM 37	Flash ActionScript	3
ID 68	CAD for Architecture and Interior Design	3
	or	
ARCH 68	CAD for Architecture and Interior Design	3

TOTAL UNITS 21



COMPUTER APPLICATION SYSTEMS (CAS)

50 INTRODUCTION TO COMPUTER APPLICATION SYSTEMS 3 UNITS

Introduction to computer applications systems as it relates to business and home use. Course introduces software topics in Microsoft Windows, Microsoft Office, internet, World Wide Web, electronic mail, file management, data communications and an introduction to basic computer programming. Hardware topics include PC system components and troubleshooting issues. Other topics include computer-based careers and trends, electronic computing issues, terminology, electronic communication skills, ethics, security, and netiquette in today's business computing environment. 3 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; C-ID: BUS 140.

54 MICROSOFT EXCEL 3 UNITS

This course covers an in depth look at Microsoft Excel, a widely used spreadsheet application program that allows users to complete advanced mathematical formulas and functions, display information through graphs and charts with the use a microcomputer. Students will be prepared to take the Microsoft Certification Exams. Transfer: CSU.

58 MICROSOFT ACCESS 3 UNITS

This course covers Microsoft Access, which is a DBMS (also known as Database Management System) from Microsoft that combines the relational Microsoft Jet Database Engine with a graphical user interface and software-development tools. Topics such as tables, queries, forms, reports and advanced functions will be covered. This course will prepare students to take the Microsoft Office Specialist Exam for Access. Transfer: CSU.

69 INTRODUCTION TO INFORMATION SYSTEMS SECURITY (SECURITY+) 3 UNITS

An introduction to the fundamental principles and topics of Information Technology Security and Risk Management at the organizational level. It addresses hardware, software, processes, communications, applications, and policies and procedures with respect to organizational Cybersecurity and Risk Management. Preparation for the CompTIA Security+ certification exams. Strongly Recommended: CAS 50, Transfer: CSU.

71 KEYBOARDING & 10 KEY 3 UNITS

Students will master the touch operation on a computer keyboard and 10 key pad. Correct fingering by touch and good posturing techniques will be emphasized along with speed and accuracy. Students will use basic word processing functions on a variety of document types. Transfer: CSU.

74 INTRODUCTION TO LINUX/UNIX 3 UNITS

This course provides hands-on training of the Linux/Unix operating system. Topics include: installation, management, configuration, security, documentation, utilities, DOS, hacking and file protection on workstations in a LAN environment. Strongly Recommended: CAS 50. Transfer: CSU.

75 INTRODUCTION TO CYBERSECURITY: ETHICAL HACKING (WHITEHAT HACKER) 3 UNITS

This course introduces the network security specialist to the various methodologies for attacking a network. Students will be introduced to the concepts, principles, and techniques, supplemented by hands-on exercises, for attacking and disabling a network within the context of properly securing a network. The course will emphasize network attack methodologies with the emphasis on student use of network attack techniques and tools and appropriate defenses and countermeasures. Students will receive course content information through a variety of methods: lecture and demonstration of hacking tools will be used in addition to a virtual environment. Students will experience a hands-on practical approach to penetration testing measures and ethical hacking. Strongly Recommended: CAS 92A. Transfer: CSU.

76 WIRESHARK, TCP/IP ANALYSIS AND NETWORK 3 UNITS

Course is geared to teach solid network management skills using the Wireshark™ network analyzer. The class provides a logical troubleshooting approach to capturing and analyzing data frames. Armed with this knowledge, students can effectively troubleshoot, maintain, optimize and monitor network traffic and keep your network operating at its peak performance. Strongly Recommended: CAS 50. Transfer: CSU.

83 INFORMATION & COMMUNICATION TECHNOLOGY ESSENTIALS 4 UNITS

This course provides an introduction to the computer hardware and software skills needed to help meet the growing demand for entry-level ICT professionals. The fundamentals of computer hardware and software as well as advanced concepts such as security, networking, and the responsibilities of an ICT professional will be introduced. Preparation for the CompTIA A+ certification exams. Strongly Recommended: CAS 50. Transfer: CSU.

85 CLOUD INFRASTRUCTURE AND SERVICES 3 UNITS

This course covers the objectives of the CompTIA Cloud+ and EMC E20-002 Cloud Infrastructure and Services certification exams. Topic included are cloud deployment and service models, cloud infrastructure, and the key considerations in migrating to cloud computing, including compute, storage, networking, desktop and application virtualization. Additional areas of focus are backup/recovery, business continuity, security, and management. Strongly Recommended: CAS 83 or , CAS 92A. Transfer: CSU.

86 INFORMATION STORAGE AND MANAGEMENT 3 UNITS

ComprehensivestudyofstoragetechnologyincomplexITenvironments, with emphasis on the exam topics for the EMC Information Storage Associate Certification (EMCISA). Theory and hands-on activities of storage systems, storage networking technologies, archives, cloud computing, storage security, and managing storage infrastructure. Strongly Recommended: CAS 83 or, CAS 92A. Transfer: CSU.

88 MICROSOFT WORD 3 UNITS

This course covers Microsoft Word in depth, teaching word processing creation, editing, and advanced features adding functionality to electronic documents. This course will prepare a student to sit for the Microsoft MOS Certification Exam. Transfer: CSU.

92A INTRODUCTION TO NETWORKS 3 UNITS

First of four courses in the Cisco® Networking Academy® CCNA® Discovery program, providing career-oriented, IT-skills instruction. CCNA Discovery prepares the student for the Cisco Certified Entry Network Technician (CCENT™) and Cisco Certified Network Associate (CCNA™) exams. Students will plan, install, verify and troubleshoot a personal computer and home/small business network, configure Internet applications and services, and recognize and mitigate security threats. 2 hours lecture, 2 hours laboratory. Transfer: CSU.

92B ROUTING AND SWITCHING ESSENTIALS 3 UNITS

Second of four courses in the Cisco® Networking Academy® CCNA® Discovery program, providing career-oriented, IT-skills instruction. CCNA Discovery prepares the student for the Cisco Certified Entry Network Technician (CCENT™) and Cisco Certified Network Associate (CCNA™) exams. Students will install, configure, and troubleshoot Cisco IOS® devices, plan a wired network infrastructure, implement basic WAN connectivity, demonstrate proper disaster recovery procedures, perform server backups, monitor network performance, isolate failures, and troubleshoot problems using logical application of the OSI model and the process of encapsulation. Prerequisite: Computer Application Systems 92A. 2 hours lecture, 2 hours laboratory. Transfer: CSU.

92C SCALING NETWORKS 3 UNITS

Third of four courses in the Cisco® Networking Academy® CCNA® Discovery program, providing career-oriented, IT-skills instruction. CCNA Discovery prepares the student for the Cisco Certified Entry Network Technician (CCENT™) and Cisco Certified Network Associate (CCNA™) exams. Students will implement, configure, and troubleshoot an enterprise LAN network utilizing VLANs, access control lists, WAN links and advanced routing protocols. Prerequisite: Computer Application Systems 92B. 2 hours lecture, 2 hours laboratory. Transfer: CSU.

92D CONNECTING NETWORKS 3 UNITS

Fourth of four courses in the Cisco® Networking Academy® CCNA® Discovery program, providing career-oriented, IT-skills instruction. CCNA Discovery prepares the student for the Cisco Certified Entry Network Technician (CCENT™) and Cisco Certified Network Associate (CCNA™) exams. Students will implement, configure, and troubleshoot an enterprise LAN network utilizing VLANs, access control lists, WAN links and advanced routing protocols. Prerequisite: Computer Application Systems 92C. 2 hours lecture, 2 hours laboratory. Transfer: CSU.

100 ADAPTED COMPUTER KEYBOARDING 3 UNITS

Introduction to correct keyboarding techniques and familiarity with the entire computer keyboard, including the number pad with emphasis on adaptive, one handed, and ergonomic keyboarding skills. This course is designed for students with disabilities. 2 hours lecture, 3 hours laboratory.

101 ADAPTED WORD PROCESSING 3 UNITS

Individualized adapted basic word processing techniques using specialized keyboarding commands, accessibility options, adapted keyboard and mouse hardware and software to produce letters, memos, reports, tables, and other documents. This course is designed for students with disabilities. 2 hours lecture, 3 hours laboratory.

102 INTRODUCTION TO ASSISTIVE TECHNOLOGY 1 UNIT

Self-paced lab course in assistive technology using screen reader, scan and read, speech recognition, and screen enlargement software programs. Designed for students with disabilities, based on their individual needs. 3 hours laboratory.

103 ASSISTIVE TECHNOLOGY LABORATORY 1 UNIT

Support and individualized instruction in access technology use and adaptive strategies while working on assignments and research projects. Major emphasis on the Personal Computer and its practical use. Designed for students with disabilities. 3 hours laboratory.



COMPUTER SCIENCE (CSCI)

DEGREE:

AA—COMPUTER SCIENCE (GENERAL)

AS—COMPUTER SCIENCE (GENERAL)

COMPUTER SCIENCE

ASSOCIATE IN ARTS

This is a program oriented towards satisfying lower division Computer Science requirements for the Computer Science major. Serves as a source of courses for professional programmers to upgrade skills. Courses also provided for majors in mathematics, business, biology, physics, engineering, computer science, geology and related disciplines.

CAREER OPPORTUNITIES IN COMPUTER SCIENCE

This program is intended to meet most university transfer requirements in Computer Science for the Bachelor's degree in Computer Science and related fields, but see the note below for more information.

PROGRAM-LEVEL OUTCOMES

1. Demonstrate fluency in programming.
2. Demonstrate knowledge of at least one additional programming language besides C++.

YEAR ONE

UNITS

MTH 1	Calculus I	5
CSCI 14	Introduction to Structured Programming In C++	4
CSCI 41	Introduction to UNIX	2
MTH 2	Calculus II	5

YEAR TWO

UNITS

CSCI 15	Object-Oriented Programming Methods	4
CSCI 21	Computer Organization and Assembly Language Programming	4
CSCI 20	Introduction to Data Structures	4
MTH 6	Elementary Linear Algebra	3
or		
MTH 8	Discrete Mathematics	4

GENERAL EDUCATION UNITS FOR THE A.A. DEGREE

For specific General Education courses refer to catalog section on A.A. Graduation requirements.

This program is designed to satisfy core Computer Science requirements for most Computer Science majors. However, the Computer Science transfer pattern requires more mathematics and includes more breadth-based topics. Students should consult a counselor, the catalog of the intended transfer institution or assist.org for specific transfer information.

TOTAL UNITS

31 - 32

COMPUTER SCIENCE

ASSOCIATE IN SCIENCE

This is a program oriented towards satisfying lower division Computer Science requirements for the Computer Science major. Serves as a source of courses for professional programmers to upgrade skills. Courses are also provided for majors in mathematics, business, biology, physics, engineering, computer science, geology and related disciplines.

CAREER OPPORTUNITIES IN COMPUTER SCIENCE

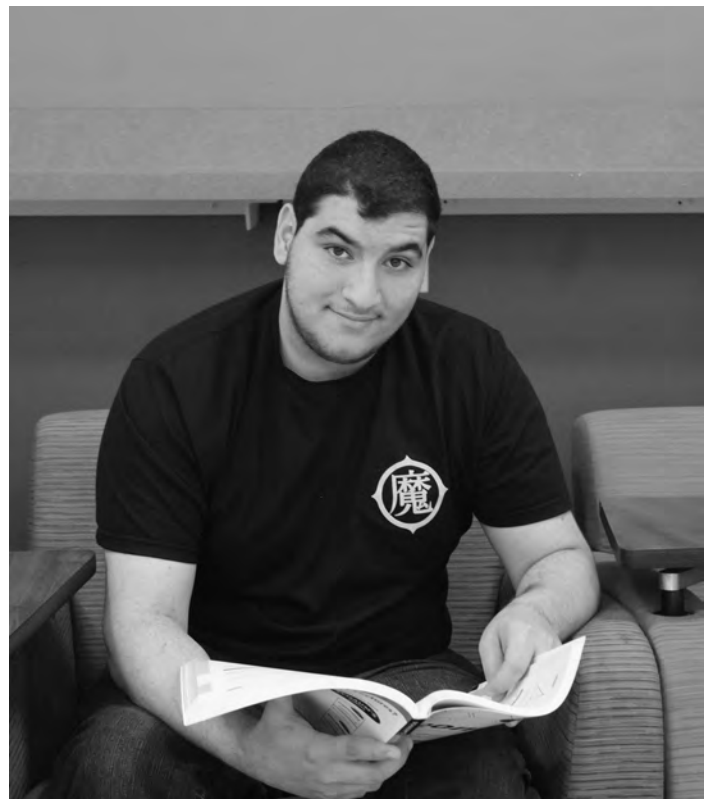
This program is intended to meet most university transfer requirements in Computer Science for the Bachelor's degree in Computer Science and related fields, but see the note below for more information.

PROGRAM-LEVEL OUTCOMES

1. Demonstrate fluency in programming.
2. Demonstrate knowledge of at least one additional programming language besides C++.

YEAR ONE

CSCI 14	Introduction to Structured Programming In C++	4
CSCI 41	Introduction to UNIX	2
MTH 1	Calculus I	5
MTH 2	Calculus II	5





YEAR TWO		UNITS
CSCI 15	Object-Oriented Programming Methods	4
CSCI 20	Introduction to Data Structures	4
CSCI 21	Computer Organization and Assembly Language Programming	4
MTH6*	Elementary Linear Algebra or	3
MTH8*	Discrete Mathematics	4

GENERAL EDUCATION UNITS FOR A.S. DEGREE

For specific A.S. General Education courses refer to catalog section on A.S. Graduation Requirements.

REQUIRED MAJOR SPECIFIC G.E. COURSE:

Complete a minimum of 3 units from the following:	UNITS	
MTH 3	Multivariable Calculus	5
MTH 4	Elementary Differential Equations	3
MTH 6	Elementary Linear Algebra	3
MTH 8	Discrete Mathematics	4
COMM 1	Fundamentals of Speech Communication	3
COMM 10	Interpersonal Communication	3
COMM 11	Intercultural Communication	3
CHEM 1A	General College Chemistry I	5
CHEM 10	Introduction to Chemistry	4
PHYS 2A	Introduction to Physics I	4
PHYS 4A	General Physics I	5
PHYS 4B	General Physics II	5
PHYS 4C	General Physics III	5
PHYS 5	Modern Physics	3
PHYS 11	Descriptive Physics	4

*It is recommended that Computer Science majors take both Mathematics 6 (Elementary Linear Algebra) and Mathematics 8 (Discrete Mathematics). No Mathematics or Computer Science course may be double counted except for General Education credit.

This program is designed to satisfy Computer Science requirements for many Computer Science transfer patterns. However, students should consult a counselor, the catalog of the intended transfer institution or assist.org for specific transfer requirements in the major. For example, some transfer institutions require Physics.

General Education courses should be carefully selected to meet the requirements of the intended transfer institution. Some transfer institutions require more general education units than required by the A.S. degree.

TOTAL UNITS **31 - 32**

COMPUTER SCIENCE (CSCI)

5 TECHNOLOGY FOR ACADEMIC SUCCESS 1 UNIT

An introduction to computer-based tools and skills supporting academic success: document management, word processing, multimedia presentations, online research, time and information management, communication tools, menu-driven software and help systems. More broadly, how to approach technology as a way to improve the academic experience. 1 hour lecture, 1 hour laboratory. Transfer: CSU.

6 COMPUTER PROGRAMMING FOR VISUAL THINKERS 3 UNITS

Students work within 2D and 3D virtual worlds to create interactive games, stories and animations. Programs are assembled using a drag-and-drop interface to bypass the abstract syntax rules required by conventional languages. Topics covered include variables, data types, expressions, input/output, logic and control flow, loops, functions, parameters, arrays, recursion, flowcharts, graphics, animation, 3D modeling, and computer game design. 2 hours lecture, 2 hours laboratory. Transfer: CSU.

7 INTRODUCTION TO COMPUTER PROGRAMMING CONCEPTS 3 UNITS

Introduction to computer programming for nonscience majors and for students requiring additional preparation before taking Computer Science 10 or Computer Science 14. Hardware, system software basics, the history of computing, basic computer operations, number systems, design of algorithms, and programming constructs such as variables, expressions, input/output, decision-making, loops, functions, and parameters. 3 hours lecture. 1 hour laboratory. Transfer: CSU; UC.

8 COMPUTER LITERACY 3 UNITS

Introduction to computers including: Microsoft Windows, Microsoft Office, Multimedia, the internet, browsers, World Wide Web, an awareness of types of computer software in use including programming languages, electronic mail, computer-based careers and trends, and other computing issues in today's society. No prior computer experience necessary. Course recommended for students of any major who want to learn about computers and how to use them. Hands-on laboratory experience reinforces lecture. Strongly recommended: eligibility for Mathematics 65 or Mathematics 65A. 2 hours lecture, 2 hours laboratory. Transfer: CSU; UC; C-ID: BUS 140.

10 INTRODUCTION TO PROGRAMMING USING VISUAL BASIC.NET 4 UNITS

Introduction to computer programming using Microsoft's programming language Visual BASIC.NET for Windows. The course includes programming algorithm development, Visual Studio. NET's IDE, the language's basic syntax and grammar, object event procedures, input/output, looping techniques, decision logic, variable data types, functions and subroutines and text file and database manipulation. Intended for a general audience with little or no prior formal programming experience. Strongly recommended: Computer Science 7 or Computer Science 8 (completed with a grade of "C" or higher). 3 hours lecture, 3 hours laboratory. Transfer: CSU; UC.



14 INTRODUCTION TO STRUCTURED PROGRAMMING IN C++ 4 UNITS

Introduction to structured programming and problem solving using the C++ language. Problem solving techniques, algorithm design, testing and debugging techniques, and documentation standards. C++ syntax: elementary operators, data types, control structures, user-defined and library functions, basic input/output, sequential files, arrays and structs. Appropriate for students with little or no programming experience, but comfortable using computers with modern GUI operating systems. Prerequisite: Mathematics 55, 55L, 54, or 54L (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics Assessment process, or Computer Science 7 (completed with a grade of "C" or higher). Strongly recommended: Eligibility for English 1A. 3 hours lecture, 3 hours laboratory. Transfer: CSU; UC.

15 OBJECT-ORIENTED PROGRAMMING METHODS 4 UNITS

Object-oriented programming methods employed to design, program, test and document intermediate level problems. Includes strings and string objects, multidimensional arrays, pointers, dynamic allocation, classes, overloaded functions, inheritance and polymorphism, introduction to linked lists. Designed to satisfy Association for Computing Machinery (ACM) guidelines for CS I as required for computer Science and related transfer majors. Prerequisite: Computer Science 14 (completed with a grade of "C" or higher). Strongly recommended: Mathematics 20 (completed with a grade of "C" or higher). 3 hours lecture, 3 hours laboratory. Transfer: CSU; UC; C-ID: COMP 122.

18A THE C PROGRAMMING LANGUAGE 2 UNITS

Intended for students with knowledge of a high-level programming language, such as C++ or Java. Introduction to the C programming language, particularly the differences between C and C++ or Java. Variables, control structures, functions and parameter passing, strings, pointers, memory management, linked lists, recursion, the preprocessor (macros, libraries), command-line parameters, and use of the command-line compiler. Prerequisite: Computer Science 14 or equivalent (completed with a grade of "C" or higher). Strongly recommended: Eligibility for English 1A and Computer Science 41 or Computer Science 15 or equivalents (either may be taken concurrently). 1.5 hours lecture, 1.5 hours laboratory. Transfer: CSU.

19A OBJECT-ORIENTED PROGRAMMING METHODS IN JAVA 4 UNITS

Object-oriented programming methods employed to design, program, test and document intermediate level problems in the Java language. Overview of Java syntax, control structures, methods, I/O, strings, single and multidimensional arrays, recursion and exception handling. Abstract Data Types and Object-Oriented Programming principles including classes, information hiding, aggregation, inheritance, method overriding and polymorphism. Introduction to graphical user interfaces (GUIs) and applets using the javax.swing package. Dynamic allocation and de-allocation of memory; comparison of Java references with pointers in C++. Implementation and use of linked lists. Designed to satisfy Association of Computing Machinery (ACM) guidelines for CSI as required for Computer Science majors. Strongly recommended: Computer Science 14 and Mathematics 20 (completed with a grade of "C" or higher). 3 hours lecture, 3 hours laboratory. Transfer: CSU; UC.

20 INTRODUCTION TO DATA STRUCTURES 4 UNITS

Design and implementation of larger projects using object-oriented software engineering principles. Emphasis on definition and use of data structures. Includes specification of Abstract Data Types, recursion, dynamic memory allocation, stacks, linked lists, priority queues, graphs, binary trees, heaps, sorting and searching, algorithm analysis, hashing techniques, random access files. Prerequisite: Computer Science 15 (completed with a grade of "C" or higher). 3 hours lecture, 3 hours laboratory. Transfer: CSU; UC; C-ID: COMP 132.

21 COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE PROGRAMMING 4 UNITS

Basics of machine architecture, machine language, assembly language, operating system and higher level language interface. Data representation, instruction representation and execution, addressing techniques and use of macros. Space and time efficiency issues. Input/output including number conversion and use of system interrupts. Interrupt processing and interrupt handlers. Procedures including parameter passing and linkage to higher level languages. Prerequisite: Computer Science 14 (completed with a grade of "C" or higher). 3 hours lecture, 3 hours laboratory. Transfer: CSU; UC; C-ID: COMP 142.

41 INTRODUCTION TO UNIX 2 UNITS

UNIX operating system capabilities, introduction to Perl, elementary batch programming and compilation of C. Components of a UNIX system, common commands, directory and file management, UNIX editors, shells, electronic mail and user communication, the C language development environment, Internet resources. Strongly recommended: Completion of or concurrent enrollment in Computer Science 14 or equivalent programming course in the C or C++ programming languages (completed with a grade of "C" or higher). 1.5 hours lecture, 1.5 hours laboratory. Transfer: CSU.

42 UNIX TOOLS, SHELL PROGRAMMING AND SYSTEM ADMINISTRATION CONCEPTS 2 UNITS

Further experience with UNIX tools. Enhanced shells. Emphasis on Linux variant of UNIX. Basic networking concepts. Writing and testing shell scripts. Processes and scheduling. Security issues. Basic System administration. Prerequisite: Computer Science 41 (completed with a grade of "C" or higher). 1.5 hours lecture, 1.5 hours laboratory. Transfer: CSU.

CONTINUING EDUCATION STUDIES

CONTINUING EDUCATION STUDIES .5-4 UNITS

Continuing education courses include both full term and short term courses in a wide variety of course patterns, field studies, seminars, workshops, and any other such educational activities that will meet the educational needs of those students pursuing a community college program. May be offered under any course title contained in the Catalog, using the numbers 150 through 199. 1-12 hours.

DANCE (DANC)

See Kinesiology - Dance.



DENTAL HYGIENE (DHYG)

DEGREE:

AA- DENTAL HYGIENE

"Dental hygienists are preventive oral health professionals who have graduated from an accredited dental hygiene program in an institution of higher education, licensed in dental hygiene to provide educational, clinical, research, administrative and therapeutic services supporting total health through the promotion of optimum oral health." (ADEA, 2012) The Dental Hygiene Program is accredited by the Commission on Dental Accreditation (CODA) which is nationally recognized by the United States Department of Education for programs at the post-secondary level. "CODA's mission is to serve the oral health care needs of the public through the development and administration of standards that foster continuous quality improvement of dental and dental related educational programs." The Dental Hygiene Program admits 20 students per year. Students interested in dental hygiene need a background in the basic sciences, English, psychology, and speech. This is a special admission program. Successful completion of the two year program qualifies the student to take the National Dental Hygiene Board Exam and the regional board exams for licensure as a Registered Dental Hygienist. The program includes courses such as Clinical Dental Hygiene, Dental Radiology, General and Oral Pathology, Expanded Functions for the Dental Hygienist, Educational Theories in Dental Hygiene, and Community Dental Health. **SPECIAL APPLICATION REQUIRED.** Go to www.chabotcollege.edu/dhyg for details.

PROGRAM-LEVEL OUTCOMES

1. Demonstrate the highest professional knowledge, judgment & ability following the ADA Code of Ethics.
2. Perform self-assessment for life-long learning & professional growth.
3. Demonstrate how to acquire & synthesize information in a critical, scientific, & effective manner.



YEAR ONE	UNITS
DHYG 50A Dental Hygiene Orientation I	0.5
DHYG 60 Dental Anatomy and Morphology	1.5
DHYG 60S Dental Anatomy and Morphology Independent Study	0.5
DHYG 61 Head and Neck Anatomy	2
DHYG 61S Head and Neck Anatomy Independent Study	1
DHYG 69A Oral Health Care Education	2
DHYG 71A Pre-Clinical Dental Hygiene	4
DHYG 71S Pre-clinical Dental Hygiene Independent Study	1
DHYG 74A Dental Radiography I	3
HLTH 60 * Responding to Emergencies	1
HLTH 70B **Healthcare Provider CPR	0.2
DHYG 51 General and Oral Pathology	4
DHYG 55A Dental Materials	1
DHYG 69B Treatment and Evaluation in Dental Hygiene	1
DHYG 71B Clinical Dental Hygiene	4
DHYG 73 Educational Theories in Dental Hygiene Care	1.5
DHYG 74B Dental Radiography II	1.5
DHYG 75 Medical Emergencies	1
NUTR 1 *** The Science of Nutrition	3

YEAR TWO	UNITS
DHYG 50B Dental Hygiene Orientation II	0.5
DHYG 52A Periodontics	2
DHYG 54 Pharmacology	2
DHYG 56A Community Dental Health I	1
DHYG 57 Expanded Functions for the Dental Hygienist	2
DHYG 80A Patient Management	1
DHYG 81A Clinical Practice I	5
DHYG 82A Clinical Experience Seminar I	1
DHYG 50C Dental Hygiene Orientation III	0.5
DHYG 52B Advanced Periodontics	1
DHYG 56B Community Dental Health II	1
DHYG 58 Dental Office Practice	1
DHYG 80B Advanced Clinical Topics	1
DHYG 81B Clinical Practice II	5
DHYG 82B Clinical Experience Seminar II	2
DHYG 83 Patients with Special Needs	1

GENERAL EDUCATION COURSES

For specific General Education courses refer to catalog section on A.A. Graduation Requirements.

The Dental Hygiene Program units combined with the Associate in Arts Degree (G.E.) requirements will be in excess of the minimum 60 units.

Note: To progress in the Dental Hygiene Program and to graduate from the program, students must earn a minimum grade of "C" in each course.

TOTAL UNITS 60.7

*A student who presents a current Responding to Emergencies Card may request a waiver of Health 60

**A student who presents a current Professional Rescuer Cardiopulmonary Resuscitation Card may request a waiver of Health 70B

***Completion of Nutrition 1 is strongly recommended prior to entrance into the Dental Hygiene Program.

DENTAL HYGIENE (DHYG)

ASSOCIATE IN ARTS DEGREE

50A DENTAL HYGIENE ORIENTATION I .5 UNIT

Orientation to the dental hygiene program to include information regarding scheduling, course requirements, financial aid considerations, program policies and procedures as well as core competencies. Prerequisite: Acceptance into the dental hygiene program

50B DENTAL HYGIENE ORIENTATION II .5 UNIT

Orientation for second year dental hygiene students focusing on patient management and scheduling as well as policies and procedures for treating periodontally involved patients. Prerequisite: Dental Hygiene 71B. 9 hours.

50C DENTAL HYGIENE ORIENTATION III .5 UNIT

Orientation for second year dental students providing information regarding scheduling for complex cases, course requirements, program policies and procedures as well as patient/clinical competencies. Prerequisite: Dental Hygiene 81A. 9 hours.

51 GENERAL AND ORAL PATHOLOGY 4 UNITS

Oral pathology and dysfunctions of systems of the body which directly affect the oral cavity. Significance of oral and general pathology in relationship to treatment by the dental hygienist. Corequisite: Current enrollment in the Dental Hygiene Program. 4 hours lecture. Transfer: CSU.

52A PERIODONTICS 2 UNITS

Normal periodontium and the deviations from health, with emphasis on the hygienist's responsibility in examination, data collection and recognition of disease. Dental Hygiene therapy for periodontal disease prevention, active case management and maintenance programs. Contributing factors to disease process and case management. Decision-making for patient referral to the periodontal specialist. Prerequisite: DHYG 51 (completed with a grade of "C" or higher). 2 hours lecture. Transfer: CSU

52B ADVANCED PERIODONTICS 1 UNIT

Continuation of 52A. Research-based comprehensive periodontal therapy. Focus on systemic diseases and their relationship to periodontal disease and adjunct periodontal treatment modalities through the use of evidence-based research and case studies. Prerequisite: DHYG 52A (completed with a grade of "C" or higher). 1 hour lecture. Transfer: CSU.

**54 PHARMACOLOGY****2 UNITS**

Sources, dosages, therapeutic action, and side effects of drugs used in dentistry and dental hygiene. Includes legal and ethical aspects of drug usage. Corequisite: Dental Hygiene 57. 2 hours. Transfer: CSU.

55A DENTAL MATERIALS**1 UNIT**

General and specialty practice materials and techniques. Prerequisite: DHYG 69A (completed with a grade of "C" or higher). Transfer: CSU.

56A COMMUNITY DENTAL HEALTH I**1 UNIT**

Study of individual and community oral health problems relative to personal, family, and public health needs. 1 hour lecture. Strongly Recommended: COMM 1 or , COMM 10 or , COMM 30. Corequisite: DHYG 80A (completed with a grade of "C" or higher). Transfer: CSU.

56B COMMUNITY DENTAL HEALTH II**1 UNIT**

Continuation of Dental Hygiene 56A. Individual and community oral health problems, with emphasis on the dental hygienist as a resource person. Prerequisite: DHYG 56A (completed with a grade of "C" or higher). 1 hour lecture. Transfer: CSU

57 EXPANDED FUNCTIONS FOR THE DENTAL HYGIENIST**2 UNITS**

Dental hygiene advanced clinical functions including clinical practice in administration of local anesthetics, topical anesthetic agents, nitrous oxide/oxygen analgesia and soft tissue curettage. Corequisite: DHYG 54 and , DHYG 81A. 1 hour lecture, 3 hours clinical. Transfer: CSU.

58 DENTAL OFFICE PRACTICE**1 UNIT**

Dental office practices based on sound dental economics, legal and ethical framework of the State Dental Practice Act, and patient needs and services. Corequisite: DHYG 81B. 1 hour lecture. Transfer: CSU.

60 DENTAL ANATOMY AND MORPHOLOGY**1.5 UNITS**

Development, eruption, and structures of the intraoral cavity and extraoral structures; structures of the teeth, tooth numbering systems, occlusion and anomalies. Identification of teeth and oral structures. Prerequisite: Admission into the Dental Hygiene Program. Corequisite: DHYG 60S , DHYG 69A and , DHYG 71A. 1.5 hours lecture. Transfer: CSU

60S DENTAL ANATOMY AND MORPHOLOGY INDEPENDENT STUDY**.5 UNIT**

Supplemental instruction on the development, eruption, and structures of the intraoral cavity and extraoral structures: structures of the teeth, tooth numbering systems, occlusion and anomalies. Identification of teeth and oral structures. Corequisite: DHYG 60. 1.5 hours laboratory.

61 HEAD AND NECK ANATOMY**2 UNITS**

Anatomy of the head, neck and oral cavity; structure and function of the oral cavity and adjacent structures. Emphasis on clinical recognition of normal structures, , their vascular supply and the regional osteology. 2 hours lecture. Corequisite: DHYG 69A and , DHYG 71A. Transfer: CSU

61S HEAD AND NECK ANATOMY INDEPENDENT STUDY**1 UNIT**

Supplemental instruction on the embryology of the head, neck and oral cavity, structure and function of the oral cavity and adjacent structures. Emphasis on the recognition of normal structures, the anatomical relationships between structures and regional osteology. Corequisite: DHYG 61. 3 hours laboratory.

68 EXTENDED CLINICAL EXPERIENCE**.5 UNIT**

Clinical dental hygiene practice and screening for the California State Board Examination. Designed for Chabot College Dental Hygiene Program graduates who are not yet licensed in the State of California. Includes practice and screening of patients. Prerequisite: graduate of the Dental Hygiene Program. 9-27 hours laboratory.

69A ORAL HEALTH CARE EDUCATION**2 UNITS**

Educational techniques and technical skills used to assist individuals and groups in becoming integrally involved in their dental/oral health care. Information and application of information related to oral health care oral health promotion and disease prevention. Corequisite: Current enrollment in the Dental Hygiene Program. 2 hours. Transfer: CSU.

69B TREATMENT AND EVALUATION IN DENTAL HYGIENE**1 UNIT**

Continued development of the principles of assessment in dental hygiene care. Prevention, non-surgical periodontal therapy and maintenance through application of the Dental Hygiene process, including assessment, planning, goal setting, implementing and evaluation used in providing dental hygiene care. Emphasis on evaluation of dental hygiene care as an essential component of the dental hygiene process. Prerequisite: DHYG 69A (completed with a grade of "C" or higher) and , DHYG 71A (completed with a grade of "C" or higher). 1 hour lecture. Transfer: CSU.

71A PRE-CLINICAL DENTAL HYGIENE**4 UNITS**

Laboratory and clinical experiences in patient assessment, dental hygiene care planning, goal setting and implementation of instrumentation techniques for providing prevention- oriented dental care and non-surgical periodontal therapy. Emphasis on post-treatment evaluation. Application of theory to the treatment of clinical patients. Corequisite: DHYG 60 and , DHYG 69A and , DHYG 71S. 2 hours lecture, 6 hours clinical. Transfer: CSU.

71B CLINICAL DENTAL HYGIENE**4 UNITS**

Continuation of laboratory and clinical experiences in patient assessment with emphasis on dental hygiene care planning, goal setting and implementation of instrumentation techniques for providing prevention-oriented dental care and non-surgical periodontal therapy. Emphasis on post-treatment evaluation. Introduction to the technical skills and procedures used in the clinical practice of dental hygiene. Prerequisite: DHYG 71A (completed with a grade of "C" or higher) Corequisite: DHYG 69B and DHYG 75. 1 hour lecture, 9 hours clinical Transfer: CSU.

71C ADVANCED PERIODONTAL PROCEDURES .5 UNIT

Laboratory and lecture experiences in advanced instrumentation techniques; workshops on recognizing patients' medical needs and their relationship to dental treatment. Prerequisite: Dental Hygiene 71B (completed with a grade of "C" or higher). 6 total hours lecture, 6 total hours laboratory. Transfer: CSU.

71S PRE-CLINICAL DENTAL HYGIENE INDEPENDENT STUDY 1 UNIT

Supplemental instruction in the use of dental hygiene instruments. Emphasis on instrumentation technique including the use of fulcrum options, modified pen grasp, direct and indirect vision. Corequisite: Dental Hygiene 71A. 3 hours.

72S ADVANCED PERIODONTAL PROCEDURE .5 UNIT

Lecture experiences in advanced instrumentation techniques; workshops on recognizing patients' medical needs and their relationship to dental treatment. Prerequisite: DHYG 71B (completed with a grade of "C" or higher). Transfer: CSU.

73 EDUCATIONAL THEORIES IN DENTAL HYGIENE 1.5 UNITS

Basics of research processes associated with clinical dental hygiene practice. Teaching, learning, and research processes. Application of principles for patient education. Identification of effective environments for teaching and learning. Prerequisite: DHYG 69A and DHYG 71A. Corequisite: DHYG 69B and , DHYG 71B. 1 hour lecture. Transfer: CSU

74A DENTAL RADIOGRAPHY I 3 UNITS

Introduction to principles of radiography, x-radiation protection, operation of x-ray equipment, infection control procedures and hazardous waste maintenance. Practice in film exposure, processing, mounting and interpretation. Prerequisite: Current enrollment in the Dental Hygiene Program. 2 hours lecture, 3 hours laboratory. Transfer: CSU.

74B DENTAL RADIOGRAPHY II 1.5 UNITS

Continuation of clinical experience in exposing films, group and individualized criticism of mounted films; principles of Panographic and Digital radiology; special patient needs; occlusal and pedodontic surveys; emphasis on radiographic interpretative skills. Prerequisite: Dental Hygiene 74A (completed with a grade of "C" or higher). .5 hour lecture, 3 hours clinical. Transfer: CSU.

75 MEDICAL EMERGENCIES 1 UNIT

Prevention, recognition and management of medical emergencies that occur in the dental setting. Corequisite: DHYG 69B and , DHYG 71B. 1 hour lecture. Transfer: CSU.

80A PATIENT MANAGEMENT 1 UNIT

Dental Hygiene therapy with emphasis on the child patient and periodontal patients, education in prevention and control of dental disease, and case documentation. Prerequisite: Dental Hygiene 71B. Corequisite: Dental Hygiene 56A and 81A. 1 hour. Transfer: CSU.

80B ADVANCED CLINICAL TOPICS 1 UNIT

Development of skills and knowledge in dental hygiene therapy and disease control with emphasis on comprehensive patient care. Prerequisite: Dental Hygiene 80A (completed with a grade of "C" or higher). Corequisite: Dental Hygiene 81B, 82B and 83. 1 hour. Transfer: CSU.

81A CLINICAL PRACTICE I 5 UNITS

Continuation of clinical experience in performing dental hygiene therapy with emphasis on the young child and periodontal patient; patient education in prevention and control of dental disease and emergency procedures. Prerequisite: Dental Hygiene 69B and Dental Hygiene 71B (both completed with a grade of "C" or higher). Corequisite: Dental Hygiene 56A, 57, 80A and 83. 12 hours clinical. Transfer: CSU.

**DENTAL HYGIENE**

Thinking about a career in Dental Hygiene? Dental Hygienists rank #2 in "Best Health Care Support Jobs" according to the US News Best Jobs Rankings. The Chabot College Dental Hygiene Program offers students a wonderful opportunity to get a high quality education. The program includes courses such as Clinical Dental Hygiene, Dental Radiology, General and Oral Pathology, Expanded Functions for the Dental Hygienist, Educational Theories in Dental Hygiene Education, and Community Dental Health.



Chabot College students have achieved a **100% pass rate on the National Dental Hygiene Board exam-**

FOR THE PAST 10 YEARS!

Visit www.chabotcollege.edu/dhyg

81B CLINICAL PRACTICE II**5 UNITS**

Continuation of clinical experience with a variety of clinical cases of adults and children to include a broad spectrum of clinical applications. Prerequisite: Dental Hygiene 81A (completed with a grade of "C" or higher). Corequisites: Dental Hygiene 58, 80B, 82B, and 83. 15 hours clinical. Transfer: CSU.

82A CLINICAL EXPERIENCE SEMINAR I**1 UNIT**

Discussion and analysis of case-based clinical situations. Case studies addressing client care, protocol and advanced clinical techniques. Exploration of and education in cultural and linguistic competence. Corequisite: DHYG 80A. 1 hour lecture. Transfer: CSU.

82B CLINICAL EXPERIENCE SEMINAR II**2 UNITS**

Discussion and analysis of complex case-based clinical situations. Ethical, legal decision making, occupational standards and incident reporting in the clinical setting. Review of materials pertaining to the National Dental Hygiene Board and the Clinical State Dental Hygiene Board exams. Corequisite: Dental Hygiene 58A and 80B. 2 hours. Transfer: CSU.

83 PATIENTS WITH SPECIAL NEEDS**1 UNIT**

Dental Hygiene therapy with emphasis on patients with special needs. Prerequisite: Dental Hygiene 80A (completed with a grade of "C" or higher). Corequisite: Dental Hygiene 80B and 81B. 1 hour. Transfer: CSU.

DIGITAL MEDIA (DIGM)**CERTIFICATE OF PROFICIENCY:****DIGITAL MEDIA**

The Digital Media certificate program offers students the opportunity to work with a range of design and production tools for print, web, and video. Familiarity with these tools is desirable to many employers, and will benefit students no matter which career they choose.

CAREER OPPORTUNITIES IN DIGITAL MEDIA

The skills taught in Digital Media courses will benefit students in any career they choose.

PROGRAM-LEVEL OUTCOMES

1. Create artistic concepts and themes in digital work.
2. Demonstrate strong craftsmanship (using industry standard software and technology) in creating digital work.

YEAR ONE

	UNITS
DIGM 31A Photoshop I	1.5
DIGM 31B Photoshop II	1.5
DIGM 33A InDesign I	1.5
DIGM 41 Graphic Design Concepts	3





YEAR TWO	UNITS
DIGM 32A Illustrator I	1.5
DIGM 32B Illustrator II	1.5
DIGM 35A Building a Web Site I	1.5
DIGM 35B Building a Web Site II	1.5
DIGM 34 JavaScript for Designers or	3
DIGM 36A Video Editing I and	1.5
DIGM 36B Video Editing II	1.5
TOTAL UNIT	16.5

DIGITAL MEDIA (DIGM)

31A PHOTOSHOP I 1.5 UNITS

Introduction to the use of Photoshop software for creating and editing digital images. Topics include retouching and restoration of photographs, color management, digital painting, and preparing images for printing. May not receive credit if Art/Architecture/Interior Design/Photography 31A has been completed. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

31B PHOTOSHOP II 1.5 UNITS

Continuation of the content and skills introduced in Digital Media 31A (Photoshop I). Topics include filters, advanced layer effects, preparing images for commercial printing, and preparing images for use on web pages. May not receive credit if Art/Architecture/Interior Design/Photography 31B has been completed. Prerequisite: Digital Media 31A (completed with a grade of "C" or higher). 1 hour lecture, 2 hours laboratory. Transfer: CSU.

32A ILLUSTRATOR I 1.5 UNITS

Introduction to the use of Adobe Illustrator software for digital illustration. Emphasis on the use of vector-based tools for artistic and technical drawing. Enhancement of illustrations through the addition of text, gradients, patterns, transparency, and effects. May not receive credit if Art/Architecture/Interior Design/Photography 32A has been completed. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

32B ILLUSTRATOR II 1.5 UNITS

Continuation of the content and skills introduced in Digital Media 32A (Illustrator I). Creation of custom brushes and patterns; masking and distorting objects; simulating light and shadow through use of gradients, blends, meshes, and 3D effects; preparing files for commercial printing. May not receive credit if Art/Architecture/Interior Design/Photography 31B has been completed. Prerequisite: Digital Media 32A (completed with a grade of "C" or higher). 1 hour lecture, 2 hours laboratory. Transfer: CSU.

33A INDESIGN I 1.5 UNITS

Introduces Adobe InDesign software as a page layout tool and graphic design environment. Covers creation and styling of text and graphics to design posters, flyers, booklets, and brochures. Includes rudiments of design, typography, and color theory. Transfer: CSU.

33B INDESIGN II 1.5 UNITS

Using Adobe InDesign software as a desktop publishing tool for books and periodicals in print and electronic formats. Includes working with page numbering, multiple sections, and tables of contents; preflighting documents for publication. Prerequisite: DIGM 33A (completed with a grade of "C" or higher). Transfer: CSU.

34 JAVASCRIPT FOR DESIGNERS 3 UNITS

Introduction to JavaScript, a scripting language used to add interactivity to web pages. Covers the aspects of JavaScript most useful to web designers: basic object-oriented programming techniques; using the Document Object Model to control page elements such as windows, links, forms, and images; working with free JavaScript libraries such as jQuery. Strongly Recommended: DIGM 35A (completed with a grade of "C" or higher). 2 hours lecture, 4 hours laboratory. Transfer: CSU.

35A BUILDING A WEB SITE I 1.5 UNITS

Introduction to the basic skills required for designing and producing web pages and multi-page web sites, providing a foundation for eventual creation of interactive, multimedia web sites. Hand-coding HTML and Cascading Style Sheets; using Dreamweaver and other site design and management tools. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

35B BUILDING A WEB SITE II 1.5 UNITS

Continuation of the content and skills introduced in Digital Media 35A (Building a Web Site I), with emphasis on using Dreamweaver in collaboration with other multimedia applications (such as Photoshop, Illustrator, and Flash) to create media-rich Web sites. Devising intuitive navigation schemes; incorporating sound and motion into a Web page. Prerequisite: Digital Media 35A (completed with a grade of "C" or higher). Strongly recommended: DIGM 31A and DIGM 32A and DIGM 36A (each completed with a grade of "C" or higher). 1 hour lecture, 2 hours laboratory. Transfer: CSU.

36A VIDEO EDITING I 1.5 UNITS

Introduction to digital video editing using desktop software. Capturing digital video; combining video clips by means of cuts and transitions; adding titles and audio; outputting the finished product to disk. Each student must have an external hard drive with a capacity of at least 500 GB and a set of headphones or earbuds. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

36B VIDEO EDITING II**1.5 UNITS**

Continuation of the content and skills introduced in Digital Media 36A (Video Editing I), with emphasis on creative imagery through use of video and audio filters, motion and speed effects, and compositing. Each student must have an external hard drive with a capacity of at least 500 GB and a set of headphones or earbuds. Prerequisite: DIGM 36A (completed with a grade of "C" or higher). 1 hour lecture, 2 hours laboratory. Transfer: CSU.

41 GRAPHIC DESIGN CONCEPTS**3 UNITS**

Introduction to the essential visual elements of graphic design. Exploration of the principles, concepts, and protocols used for effective visual communication. Cultivation of the designer's creative process and problem-solving skills. Emphasis on strong conceptual development and solid craftsmanship through design execution. Projects explore creative development of graphic design ideas from start to finish. 2 hours lecture, 4 hours laboratory. Transfer: CSU.

56 GRAPHIC DESIGN AS A PROFESSION**3 UNITS**

Introduces the work done by professionals in the field of graphic design. Explores the variety of areas in which graphic designers work (such as print design, web design, and package design) and invites students to apply their skills to those areas. Prerequisite: DIGM 41 (completed with a grade of "C" or higher). Transfer: CSU.

58 PROBLEM SOLVING IN GRAPHIC DESIGN**3 UNITS**

Acquaints students with the kinds of problems they would need to solve as professional graphic designers. Illustrates the kinds of needs that might be expressed by art directors or project managers, and provides students with a process for meeting those needs. Prerequisite: DIGM 56 (completed with a grade of "C" or higher).

59 ADVANCED GRAPHIC DESIGN**3 UNITS**

Using industry-standard software (such as Adobe Illustrator, Photoshop, and InDesign) to create professional-quality graphic design projects. Typical projects include books, product labels, and corporate identity packages. Prerequisite: DIGM 56 (completed with a grade of "C" or higher). Transfer: CSU.

DISTANCE EDUCATION

Distance Education offers students a flexible schedule of courses through various modes of technology, such as television, video, CD-ROMs, and the internet. Current types of courses include Telecourses (television/videobased), On-line courses (web-based), and CD-ROM-based courses, most of which fulfill General Education requirements. Students will find the complete list of Distance Education courses at www.chabotcollege.edu (select "Distance Education") or in the back pages of the current class schedule. Courses may also be found individually under each subject heading. .

DRAMA

(See Theater Arts)





EARLY CHILDHOOD DEVELOPMENT (ECD)

DEGREE:

AS-T—EARLY CHILDHOOD EDUCATION

AA—EARLY CHILDHOOD DEVELOPMENT

AA—EARLY CHILDHOOD INTERVENTION

CERTIFICATE OF ACHIEVEMENT:

EARLY CHILDHOOD DEVELOPMENT (BASIC TEACHER)

EARLY CHILDHOOD INTERVENTION ASSISTANT

CERTIFICATE OF PROFICIENCY:

EARLY CHILDHOOD DEVELOPMENT (ASSOCIATE TEACHER)

This two-year diploma program leads to an Associate in Arts Degree in Early Childhood Development which includes two Certificates: Early Childhood Development (Basic Teacher) Certificate of Achievement, and Early Childhood Development (Associate Teacher) Certificate of Proficiency. The early childhood development program provides students with a fundamental understanding of the principles of child growth and development, as well as experience in the application of these principles. The early childhood development courses and programs are designed to prepare students for employment working with young children. A broad range of employment opportunities are available by fulfilling the various certificate and degree requirements listed on the following pages. Completion of the appropriate courses or programs will allow employment in state supported or private programs as Associate Teacher, Teacher, Master Teacher, or Director of an early education and care center. Family child care providers can benefit from courses designed to advance their skills both as providers and entrepreneurs of their own in-home businesses.

Completion of certificate programs dovetails with the California Child Development Permit as well as the requirements of Community Care Licensing for Title 22 programs. The Child Development Permit is required for employees of California State Funded Programs. Title 22 Programs are those that are privately owned and operated either for-profit or non-profit. Many early childhood development units are transferable to four-year institutions for elective credit, but a counselor should be consulted for specific transfer information.

EARLY CHILDHOOD EDUCATION

ASSOCIATE IN SCIENCE FOR TRANSFER DEGREE

This curriculum provides an opportunity to achieve an Associate Degree in Science in Early Childhood Development for Transfer to the California State University System (CSU) in Early Child Education or similar programs. A baccalaureate degree is recommended preparation for those considering teaching and other professional careers in early childhood education. Completion of this curriculum will demonstrate commitment to the field and provide comprehensive preparation for upper-division work. The program is designed specifically for the California State University system. Lower Division requirements for the University of California system and private four-year schools vary by transfer school. Please see a counselor for transfer requirements for other institutions. Students who intend to transfer must meet all current transfer requirements including minimum GPA. Students are strongly advised to meet with a counselor to discuss transfer requirements and lower division major preparation that is needed for their intended transfer school.

PROGRAM-LEVEL OUTCOMES

1. Apply ethical standards and professional behaviors that demonstrate understanding of the needs, the characteristics and multiple influences on the development of children birth to age eight as related to high quality care and education of young children.
2. Design, implement and evaluate environments and activities that support positive, developmental play and learning outcomes for all children.

REQUIRED CORE

		UNITS
ECD 50	Early Childhood Principles and Practices	3
ECD 54 *	Child Health, Safety and Nutrition	3
ECD 56 *	Child Growth and Development	3
ECD 62 *	Child, Family and Community	3
ECD 63	Early Childhood Curriculum	4
ECD 69	Child Study: Observation and Assessment	3
ECD 79	Teaching in a Diverse Society	3
ECD 90	Practicum: Supervised Experience	4

*These courses can be double counted for general education requirements and Early Childhood Development major

General Education for Transfer to CSU

Required course for the major: 26 units

CSU GE or IGETC (CSU) 37-39 units

(Possible Double-counting 9 units)

CSU transfer Electives as needed to reach 60 CSU transferable units.

All courses in the major or area of emphasis are required to have a grade of "C" or higher, and a cumulative GPA of 2.0 must be achieved

TOTAL UNITS

26



EARLY CHILDHOOD DEVELOPMENT

ASSOCIATE IN ARTS DEGREE

This two-year diploma program leads to an Associate in Arts Degree in Early Childhood Development which includes two Certificates: Early Childhood Development (Basic Teacher) Certificate of Achievement, and Early Childhood Development (Associate Teacher) Certificate of Proficiency. The early childhood development program provides students with a fundamental understanding of the principles of child growth and development, as well as experience in the application of these principles. The early childhood development courses and programs are designed to prepare students for employment working with young children. A broad range of employment opportunities are available by fulfilling the various certificate and degree requirements listed on the following pages. Completion of the appropriate courses or programs will allow employment in state supported or private programs as Associate Teacher, Teacher, Master Teacher, or Director of an early education and care center. Family child care providers can benefit from courses designed to advance their skills both as providers and entrepreneurs of their own in-home businesses. Completion of certificate programs dovetails with the California Child Development Permit as well as the requirements of Community Care Licensing for Title 22 programs. The Child Development Permit is required for employees of California State Funded Programs. Title 22 Programs are those that are privately owned and operated either for profit or non-profit. Many early childhood development units are transferable to four-year institutions for elective credit, but a counselor should be consulted for specific transfer information.

PROGRAM-LEVEL OUTCOMES

1. Apply ethical standards and professional behaviors that demonstrate understanding of the needs, the characteristics and multiple influences on the development of children birth to age eight as related to high quality care and education of young children.
2. Design, implement and evaluate environments and activities that support positive, developmental play and learning outcomes for all children.

YEAR ONE		UNITS
ECD 50	Early Childhood Principles and Practices	3
ECD 54	Child Health, Safety and Nutrition	3
ECD 56	Child Growth and Development	3
ECD 62	Child, Family and Community	3
ECD 63	Early Childhood Curriculum	4

YEARTWO		UNITS
ECD 60	Introduction to the Young Child With Exceptional Needs	3
ECD 69	Child Study: Observation and Assessment	3
ECD 79	Teaching in a Diverse Society	3
ECD 90	Practicum: Supervised Experience	4
ECD 95	Work Experience	1
ECD 96	Work Experience Seminar	1

Note: Students should review with Early Childhood Development instructors or Early Childhood Professional Development Coordinators the requirements of the California Child Development Permit Matrix.

General Education Courses

For specific General Education courses refer to catalog section on A.A. Graduation Requirements.

TOTAL UNITS **31**

EARLY CHILDHOOD INTERVENTION

ASSOCIATE IN ARTS DEGREE

PROGRAM-LEVEL OUTCOMES

1. Design, implement and evaluate environments and activities that support positive, developmental play and learning outcomes for children with special needs.
2. Develop strategies that promote partnerships between programs, teachers, families and their communities to meet the needs of children with special needs and their families.

YEAR ONE		UNITS
ECD 50	Early Childhood Principles and Practices	3
ECD 56	Child Growth and Development	3
ECD 62	Child, Family and Community	3
ECD 54	Child Health, Safety and Nutrition	3
ECD 63	Early Childhood Curriculum	4
ECD 79	Teaching in a Diverse Society	3

YEARTWO		UNITS
ECD 40	Social and Emotional Foundations for Early Learning	3
ECD 60	Introduction to the Young Child With Exceptional Needs	3
ECD 69	Child Study: Observation and Assessment	3
ECD 90	Practicum: Supervised Experience	4
ECD 67	Infant and Toddler Development and Caregiving	3
ECD 91	Adaptive Curriculum for Children With Exceptional Needs	3

Note: Students should review with Early Childhood Development instructors or Early Childhood Professional Development Coordinators the requirements of the California Child Development Permit Matrix.

General Education Courses

For specific General Education courses refer to catalog section on A.A. Graduation Requirements.

TOTAL UNITS **38**



EARLY CHILDHOOD DEVELOPMENT (BASIC TEACHER) CERTIFICATE OF ACHIEVEMENT

PROGRAM-LEVEL OUTCOMES

1. Student will be able to demonstrate their understanding of children's development through documentation of their skills.

YEAR ONE		UNITS
ECD 50	Early Childhood Principles and Practices	3
ECD 56	Child Growth and Development	3
ECD 62	Child, Family and Community	3
ECD 63	Early Childhood Curriculum	4

YEAR TWO		UNITS
ECD 60	Introduction to the Young Child With Exceptional Needs	3
ECD 90	Practicum: Supervised Experience	4
ECD 95	Work Experience	1
ECD 96	Work Experience Seminar	1
Option		3

Option

One course to be selected from the following:	Units
ECD 40 Social and Emotional Foundations for Early Learning	3
ECD 54 Child Health, Safety and Nutrition	3
ECD 69 Child Study: Observation and Assessment	3
ECD 79 Teaching in a Diverse Society	3

TOTAL UNITS 25

EARLY CHILDHOOD INTERVENTION ASSISTANT CERTIFICATE OF ACHIEVEMENT

PROGRAM-LEVEL OUTCOMES

1. Student will demonstrate an understanding of atypical development in children birth through age 8 by designing an environment and planning curriculum that meets the diverse needs and learning styles of all children.

YEAR ONE		UNITS
ECD 50	Early Childhood Principles and Practices	3
ECD 56	Child Growth and Development	3
ECD 62	Child, Family and Community	3
ECD 54	Child Health, Safety and Nutrition	3
ECD 63	Early Childhood Curriculum	4

YEAR TWO		UNITS
ECD 40	Social and Emotional Foundations for Early Learning	3
ECD 60	Introduction to the Young Child With Exceptional Needs	3
ECD 90	Practicum: Supervised Experience	4
ECD 67	Infant and Toddler Development and Caregiving	3
ECD 91	Adaptive Curriculum for Children With Exceptional Needs	3

TOTAL UNITS 32

EARLY CHILDHOOD DEVELOPMENT (ASSOCIATE TEACHER) CERTIFICATE OF PROFICIENCY

PROGRAM-LEVEL OUTCOMES

1. Student will be able to observe, reflect, develop and carry out an activity that is developmentally appropriate for a group of young children.
2. Student will be able to demonstrate their understanding of children's development through documentation of their skills.

YEAR ONE

The Certificate of Proficiency in Early Childhood Development can lead to the Associate Teacher permit.

CORE COURSES		UNITS
ECD 50	Early Childhood Principles and Practices	3
ECD 56	Child Growth and Development	3
ECD 62	Child, Family and Community	3
ECD 63	Early Childhood Curriculum	4

TOTAL UNITS 13



Children's Center Lab School

The Chabot College Children's Center and Lab School serves Chabot College students who are ECD majors. The Center is established to provide a laboratory setting for observation and to teach ECD students about children through first-hand/practicum experience in the classroom. The Center also provides quality care for children of students, the community, the staff and faculty. Admissions priority is reserved for income families. We are able to offer subsidized funding due to the contribution of state and federal funds. The Center provides a safe environment that meets the developmental needs of children in preschool (ages 3-5) and is located in Bldg 3500. For further information, call **(510) 723-6684**.



EARLY CHILDHOOD DEVELOPMENT (ECD)

11 EXPLORING EDUCATION 3 UNITS

This course introduces students to the concepts and issues related to teaching diverse learners in today's contemporary schools, Kindergarten through the 12th grade (K-12). Topics include teaching as a profession and career, historical and philosophical foundations of the American education system, contemporary education issues, California's content standards and frameworks, and teacher performance standards. In addition to class time, the course requires a minimum of 45 hours of structured fieldwork in public school elementary classrooms that represent California's diverse student population, and includes cooperation with at least one carefully selected and campus-approved certificated classroom teacher. 2 hours lecture, 3 hours laboratory. Transfer: CSU; UC. C-ID EDUC 200. (UC credit/unit limitations may apply)

40 SOCIAL AND EMOTIONAL FOUNDATIONS FOR EARLY LEARNING 3 UNITS

Focus on the healthy social and emotional development of young children as the foundation for children's early learning. Students will become aware of the role of the teacher in establishing an environment that promotes the healthy social and emotional development of young children. Strongly recommended: Early Childhood Development 56 and 62. 3 hours. Transfer: CSU.

50 EARLY CHILDHOOD PRINCIPLES AND PRACTICES 3 UNITS

An examination of the underlying theoretical principles of developmentally appropriate practices applied to programs, environments, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development of all young children. This course includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics, and professional identity. 3 hours. Transfer: CSU; C-ID: ECE 120.

52 CHILDHOOD AND ADOLESCENCE 3 UNITS

Concentrating on the portions of the lifespan from middle childhood continuing through adolescence and addressing both typical and atypical children. Biological changes such as puberty, brain, cognitive development, changes in family and peer relationships, and identity development will be explored. Includes an understanding of the various contexts in which this age group develops, such as family, peer groups, school, and work. Emphasis on the continuity, observation, scientific methods, and stages of development. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

54 CHILD HEALTH, SAFETY AND NUTRITION 3 UNITS

Aspects of nutrition, health and safety that promote and maintain the health and wellbeing of all children and adults who work with young children. Topics include health and nutritional guidelines, maintaining safe and healthy learning environments, state regulations, policies and procedures, common childhood illnesses, infectious diseases, school-family collaboration and emergency preparedness, first aid and injury prevention. 3 hours. Transfer: CSU; CSU/GE; C-ID: ECE 220.

56 CHILD GROWTH AND DEVELOPMENT 3 UNITS

Major physical, psychosocial, and cognitive/language developmental milestones for children both typical and atypical from conception through adolescence. Emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: CDEV 100.

59 LITERACY IN EARLY CHILDHOOD 3 UNITS

This course provides overview of language and literacy development in children from infancy to school age. Practical aspects of fostering literacy development in children by improving teachers' knowledge of literature in early years. It addresses the role of the literature, the relationship between early language development and literacy opportunities and methods for developing language and positive attitudes toward literature. The student will develop knowledge and understanding of the normal development of language in the young child and the teacher's role in fostering and facilitating this development by reading books, storytelling, story writing, and use of puppets, flannel boards and props. Strongly Recommended: ECD 56. Transfer: CSU

60 INTRODUCTION TO THE YOUNG CHILD WITH EXCEPTIONAL NEEDS 3 UNITS

Introduces the variations in development of infants and children with exceptional needs and the resulting impact on families. Includes an overview of historical and societal influences, laws relating to children with exceptional needs, and the identification and referral process. Assessments, interventions, and learning environments for infants and children with exceptional needs. Prerequisite: Early Childhood Development 56 (completed with a grade of "C" or higher). 3 hours. Transfer: CSU.

61 LITERATURE FOR THE YOUNG CHILD 3 UNITS

An introduction to young children's literature, the development of speech and language and the exploration of teaching techniques which promote language, literacy and literature for the young child. Selection, evaluation and use of fiction, non-fiction, prose and poetry from existing written and/or recorded children's literature in the early childhood classroom. Approaches to reading books, storytelling, story writing, and use of puppets, flannel boards and props to facilitate children's language and appreciation of literature. 3 hours. Transfer: CSU.

**62 CHILD, FAMILY, AND COMMUNITY 3 UNITS**

Patterns of family living in contemporary society, including the varying roles and interactions of family members; demographic, socio-cultural, racial, educational, economic, historical and developmental factors affecting children, families and relationship of the family to early care and education and to community resources. The processes of socialization and identity development will be highlighted. 3 hours. Transfer: CSU; CSU/GE; C-ID: CDEV 110.

63 EARLY CHILDHOOD CURRICULUM 4 UNITS

Professional application of the principles of human growth and development in: the study of play based inclusive curriculum, the physical environment and learning experiences including program content, the use of materials, the facilitation and guidance of all children's experiences based on developmentally appropriate principles, the methods used to meet all children's physical, social, emotional, cognitive, and creative needs including infant and toddler within cultural context. Prerequisite: ECD 50 and ECD 56 (both completed with a grade of "C" or higher). 3 hours lecture, 3 hours laboratory. Transfer: CSU; C-ID: ECE 130.

64 PLAY: MATERIALS AND ENVIRONMENTS 3 UNITS

Application of principles of human growth and development in the consideration of play materials and environments for children birth through early elementary. The selection and development of play materials and environments that are developmentally, culturally, and age appropriate. Prerequisite: Early Childhood Development 56 (completed with a grade of "C" or higher). 3 hours. Transfer: CSU.

65 ADMINISTRATION I: PROGRAMS IN EARLY CHILDHOOD EDUCATION 3 UNITS

Introduction to the administration of early childhood programs. Covers program types, budget, management, regulations, laws, development and implementation of policies and procedures. Examines administrative tools, philosophies, and techniques needed to organize, open, and operate an early care and education program: Relationships with families, and community. Prerequisite: Early Childhood Development 62 and 63 (both completed with a grade of "C" or higher). 3 hours. Transfer: CSU.

67 INFANT AND TODDLER DEVELOPMENT AND CAREGIVING 3 UNITS

A study of infants and toddlers from preconception to 36 months including physical, cognitive, language, social, and emotional growth and development. Applies theoretical frameworks to interpret behavior and interactions between heredity and environment. Examination of best practices, responsive caregiving techniques, environments, infant/toddler learning foundations, health, safety, and licensing requirements. Prerequisite: Early Childhood Development 56 (completed with a grade of "C" or higher). 3 hours. Transfer: CSU; CSU/GE.

68 ADMINISTRATION II: PERSONNEL AND LEADERSHIP IN EARLY CHILDHOOD EDUCATION 3 UNITS

Effective strategies for personnel management and leadership in early care and education settings. Includes legal and ethical responsibilities, supervision techniques, professional development, and reflective practices for a diverse and inclusive early care and education program. Prerequisite: Early Childhood Development 62 and 63 (both completed with a grade of "C" or higher). 3 hours. Transfer: CSU.

69 CHILD STUDY: OBSERVATION AND ASSESSMENT 3 UNITS

Current approaches for observing and recording the behavior of infants and young children using various scientific techniques. Effective observations that build on respecting and fostering all children's competence, striving for objectivity and individualizing programs to meet individual children's learning and developmental assessment. Direct observational experience and application of methods is required weekly. Prerequisite: Early Childhood Development 56 (completed with a grade of "C" or higher). 3 hours. Transfer: CSU; C-ID: ECE 200.

79 TEACHING IN A DIVERSE SOCIETY 3 UNITS

Critical examination of societal and personal attitudes and beliefs, values, assumptions and biases about culture, race, language, identity, family structures, ability, socio-economic status and other issues influenced by systemic oppression. Ethnic/cultural groups referenced within course from the United States of America, including African American, Asian American, Chicano/Latino, European American, Indigenous People of the Americas and Americans of Middle Eastern origin. Recognize and confront barriers that interfere with one's ability to work effectively with diverse populations of children and families. Enhance teacher's skills for educating children in a pluralistic society. 3 hours. Transfer: CSU; C-ID: ECE 230.

83 ADULT MENTORING AND SUPERVISION 2 UNITS

Methods and principles of mentoring and supervising adults in early care and education settings. Emphasis on the role of experienced classroom teachers who function as mentors and leaders to new teachers and other adults while simultaneously addressing the needs of children, families and other staff. Prerequisite: Early Childhood Development 62 and 63 (both completed with a grade of "C" or higher). 2 hours. Transfer: CSU.

85 MENTOR SEMINAR FALL .5 UNIT

This seminar is part of the statewide California Early Childhood Mentor Teacher program. Beginning early childhood Mentor teachers attend monthly seminars to explore issues related to their new role as supervisors of early childhood student teachers. Seminar content will be individualized to meet the needs of each Mentor. Prerequisite: Early Childhood Education 83. This seminar is only open to current California Early Childhood Mentor Teachers. 9 hours total. Transfer: CSU.

86 MENTOR SEMINAR SPRING .5 UNIT

This seminar is part of the statewide California Early Childhood Mentor Teacher program. Continuing early childhood Mentors attend monthly seminars to further explore issues begun in Mentor Seminar Fall and related to their role as early childhood professionals. Seminar content will be individualized to meet the needs of each Mentor. This seminar is only open to current California Early Childhood Mentor Teachers. 9 hours total. Transfer: CSU.

87 QUALITY ENVIRONMENTS FOR INFANTS/ TODDLERS 3 UNITS

Applies current theory and research to the care and education of infants and toddlers in group care. Examines essential policies, classroom environments, caregiving principles and practices that lead to quality care and developmentally appropriate curriculum for infants and toddlers which is culturally sensitive and supports families. Strongly recommended: Early Childhood Development 67. 3 hours. Transfer: CSU.

88 EARLY CHILDHOOD ENVIRONMENTS .5 UNIT

Assessing the early childhood learning environment and analyzing the outcomes helps early childhood professionals to improve the quality of their programs. Students will understand and use the Early Childhood Environment Rating Scale (ECERS) to assess the physical environment, basic care, curriculum, schedule, program, child teacher interaction and parent and staff education of a child care setting. 9 total hours. Transfer: CSU.

Foster and Kinship Care Education Program (FKCE)



The FKCE program is offered to serve the training needs of Foster/Resource, Kinship, Resource, Guardianship and Adoptive parents. Chabot and Alameda County Department of Social Services collaborate to provide comprehensive and relevant pre-service and on-going training during the day, evenings and weekends. Classes are offered on campus and in neighborhoods throughout Alameda County.

Call (510) 723-6912
for further information.

89 ISSUES IN EARLY CHILDHOOD EDUCATION 1 UNIT

Series of workshops offered on a variety of topics, which are current and relevant to early childhood professionals. (Specific topic to appear in schedule of classes.) 1–3 hours. Transfer: CSU.

90 PRACTICUM: SUPERVISED EXPERIENCE 4 UNITS

Practicum lab experience working with young children under the supervision of an ECE/CD faculty. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning and assessment; and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children. Prerequisite: ECD 63, ECD 62, ECD 50, and ECD 56 (all completed with a grade of "C" or higher). 2 hours lecture, 6 hours laboratory. Transfer: CSU; C-ID: ECE 210.

91 ADAPTIVE CURRICULUM FOR CHILDREN WITH EXCEPTIONAL NEEDS 3 UNITS

Direct experience working with young children in special day classes or inclusive settings: application of intervention strategies and best practices of early childhood development and special education in adapting curriculum to meet the individual needs of children. Observation of the assessment process by the special education team and assisting in the implementation of the educational plan. Includes the role of the teacher as a professional working in partnership with families, collaboration with interdisciplinary teams, and cultural competence. Lab hours required in an inclusive classroom setting. Prerequisite: Early Childhood Development 60 and 90 (each completed with a grade of "C" or higher). 2 hours lecture, 3 hours laboratory. Transfer: CSU.

92 CREATIVE ACTIVITIES AND MATERIALS FOR YOUNG CHILDREN 1 UNIT

Specific topics covering a variety of curriculum activities and materials such as: art, literacy, music, movement, block play, dramatic play, outdoor environments, science and math which are current and relevant to early childhood professionals. Focus is on Developmentally Appropriate Practice (DAP) criteria for curriculum development which is culturally responsive in Early Childhood classrooms. (Specific topic to appear in schedule of classes.) 1 hour lecture. Transfer: CSU.

93 RELATIONSHIPS, INTERACTIONS AND GUIDANCE YOUNG CHILDREN 1 UNIT

Specific topics which provide a study of current concepts and issues in the key role of relationships, constructive teacher-child interactions, and guidance strategies supporting the development of all children. (Specific topic to appear in schedule of classes.) 1 hour lecture. Transfer: CSU.

94 FOSTERING CHILDREN'S COGNITIVE DEVELOPMENT AND LANGUAGE 1 UNIT

Specific topics which provide a study of current concepts and issues in the key role of fostering children's cognitive development and supporting the development of children's language. (Specific topic to appear in schedule of classes.) 1 hour lecture. Transfer: CSU.

95 WORK EXPERIENCE◊ 1-3 UNITS

College supervised on-the-job training in early childhood programs. Cooperative effort between student, supervisor and instructor to accomplish professional work objectives and broaden experiences. Corequisite: Early Childhood Development 96. 5-15 hours experience per week. Transfer: CSU.

96 WORK EXPERIENCE SEMINAR◊ 1 UNIT

Discussion and analysis of typical problems encountered by employees at the workplace. Application of National Association for the Education of Young Children (NAEYC) Code of Ethical Conduct to difficult situations that occur at the job site. Develop and complete measurable developmentally appropriate goals in early care and education settings. Corequisite: Early Childhood Development 95. 1 hour. Transfer: CSU. ◊Refer to page 21 for program requirements.

98 QUALITY STANDARDS IN EARLY CHILDHOOD PROGRAMS 1 UNIT

Assessing the early childhood program and learning environment helps early childhood professionals to improve the quality of their programs. A variety of assessment tools for programs as well as state standards and guidelines for early childhood programs will be studied. The emphasis will be on effective assessment strategies, methods, and tools in an early childhood setting and how they relate to children's learning outcomes.



ECONOMICS (ECN)

AA-T ECONOMICS

ASSOCIATE IN ARTS FOR TRANSFER

An Economics education provides the student with a logical way of approaching various and sundry problems all of which provides qualitative and quantitative skills valued highly by employers. The student learns techniques for analyzing contemporary economic problems and develops the ability to exercise sound judgment in evaluating public policy issues. Many of these skills are useful in daily decision-making irrespective of career choice. The broad background developed as result of pursuing the Economics major encourages the student to become an interested, understanding observer of the events of today's and tomorrow's world.

CAREER OPPORTUNITIES IN ECONOMICS

The Economics major prepares the student for a broad variety of careers including those in law, journalism, banking and insurance, government, teaching, and research. In addition, the study of economics has become essential in today's dynamic and complex business environment. As of 2008, 28% of economics graduates ended up in business, finance, or associated professions. A 2013 University of Michigan study showed that Economics professors were the second highest paid from among 27 other disciplines with a median salary of \$92,070 per year that included both masters degrees and PhDs. The number of jobs over the next decade is expected to increase by about 14% from 2012 to 2022. Typical responsibilities of an economist are to: research and analyze economics issues; conduct surveys and collect data; analyze data using mathematical models and statistical techniques; prepare reports, tables, and charts that present research results; interpret and forecast market trends; advise business, governments, and individuals on economic problems; write articles for publications in academic journals and other media sources.

REQUIRED CORE (13-15 UNITS):

		UNITS
ECN 1	Principles of Microeconomics	3
ECN 2	Principles of Macroeconomics	3
MTH 43	Introduction to Probability and Statistics	4
MTH 15	Applied Calculus I	3
	or	
MTH 1	Calculus I	5

LIST A (SELECT ONE COURSE (3-5UNITS):		UNITS
ENGL 4	Critical Thinking and Writing about Literature	3
ENGL 7	Critical Thinking and Writing across Disciplines	3
BIOL 2	Principles of Cell/Molecular Biology and Genetics	5
BIOL 10	Introduction to the Science of Biology	4
	or	
BIOL 31	Introduction to College Biology	4
BUS 1A	Financial Accounting	4
BUS 1B	Managerial Accounting	4
CHEM 10	Introduction to Chemistry	4
	or	
CHEM 31	Introduction to College Chemistry	4
	or	
CHEM 30A	Introductory and Applied Chemistry I	4
	or	
CHEM 1A	General College Chemistry I	5
CSCI 10	Introduction to Programming Using Visual BASIC.NET	4
MTH 20	Pre-Calculus Mathematics	5
MTH 2	Calculus II	5
SOCI 1	Principles of Sociology	3

LIST B (3-5UNITS):		UNITS
Any course(s) not used in list A		
ECN 10	General Economics	3
MTH 3	Multivariable Calculus	5

GENERAL EDUCATION COURSES:

Total Units in the major: 19-24

General Education: CSU/GE or IGETC (CSU): 37-39

Total Units double-counted for GE : 15-16

Electives: CSU transferable courses: 15-19

ADDITIONAL REQUIREMENTS:

All courses in the major or area of emphasis are required to have a grade of "C" or higher, and a cumulative GPA of 2.0 must be achieved. A "P" (Pass) grade is not an acceptable grade for courses in the major.

TOTAL UNITS **19 - 25****ECONOMICS (ECN)****1 PRINCIPLES OF MICROECONOMICS 3 UNITS**

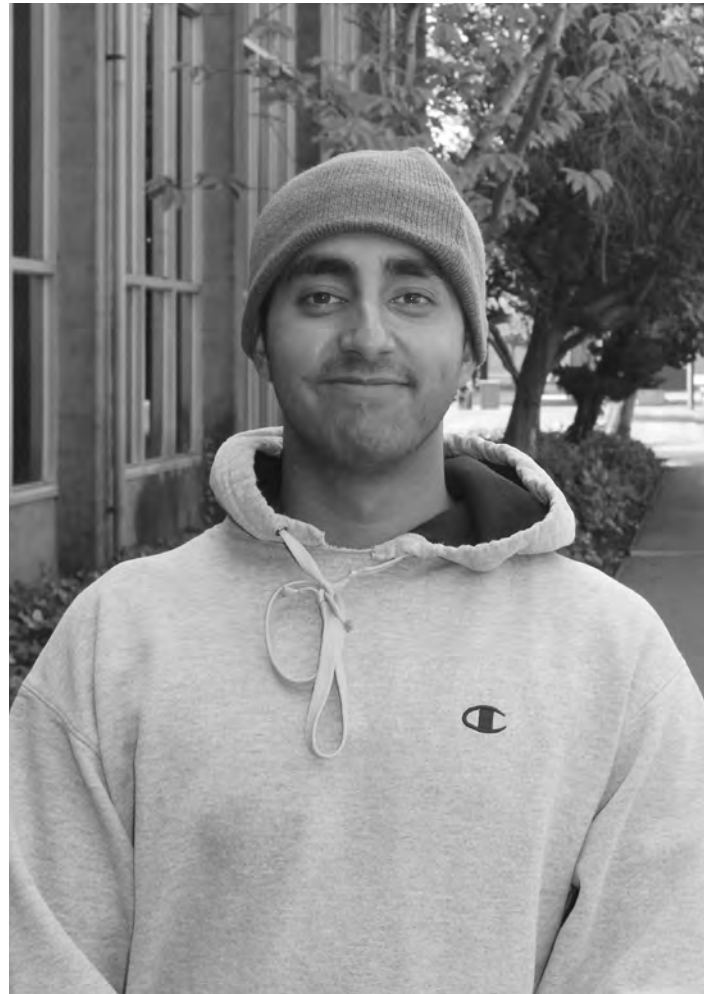
Economic analysis of market systems, price theory, including supply and demand analysis, marginal utility, elasticity, cost and revenue concepts, perfect and imperfect competition, international trade theory, pricing of the factors of production, poverty and income inequalities. Strongly Recommended: Eligibility for ENGL 1A. Prerequisite: MTH 53, MTH 53B, MTH 54, MTH 55, MTH 55L (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the mathematics assessment process. 3 hours lecture. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: ECON 201.

2 PRINCIPLES OF MACROECONOMICS 3 UNITS

Economic analysis of the theory of income determination, including national income analysis, business cycles, the consumption function, the multiplier, fiscal policy, monetary policy, money and banking, the public debt, economic growth and development, comparative economic systems and international trade. Prerequisite: MTH 53 or, MTH 53B or, MTH 54 or, MTH 54L or, MTH 55 or, MTH 55L (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics assessment process. Strongly Recommended: ENGL 1A. 3 hours lecture. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: ECON 202.

10 GENERAL ECONOMICS 3 UNITS

Survey of the economic system of the United States, covering such macroeconomic and microeconomic topics as supply and demand, firms' output and pricing decisions, international trade, comparative economic systems, economic growth, business cycles, fiscal and monetary policy, labor, and money and banking. 3 hours lecture. Transfer: CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).





ELECTRONIC SYSTEMS TECHNOLOGY (ESYS)

DEGREE:

AS—ELECTRONIC SYSTEMS TECHNOLOGY

CERTIFICATE OF ACHIEVEMENT:

CONSUMER TECHNOLOGY

INDUSTRIAL TECHNOLOGY

Chabot offers three programs in **Electronic Systems Technology**: A.S. degree in Electronic Systems Technology and Certificates of Achievement in Consumer Technology and Industrial Technology. The A.S. degree prepares you for entry-level positions in a wide range of industries that use electronics technician skills, including biotechnology, manufacturing, entertainment, automotive and consumer products. Electronic Systems Technology is a key enabler of all of these contemporary industries.

With multiple courses offered in eight-week accelerated sessions, the Electronics Systems Technology program offers the option of choosing your own pace as you progress through the program. A typical full-time student will take four courses per semester, two in the first eight-week session, and two in the second. You may take more or fewer courses to match your personal schedule and learning style.

ELECTRONIC SYSTEMS TECHNOLOGY

ASSOCIATE IN SCIENCE DEGREE

Chabot offers three programs in Electronic Systems Technology: A.S. degree in Electronic Systems Technology and Certificates of Achievement in Consumer Technology and Industrial Technology. The A.S. degree prepares you for entry-level positions in a wide range of industries that use electronics technician skills, including biotechnology, manufacturing, entertainment, automotive and consumer products. Electronic Systems Technology is a key enabler of all of these contemporary industries. With multiple courses offered in eight-week accelerated sessions, the Electronics Systems Technology program offers the option of choosing your own pace as you progress through the program. A typical full-time student will take four courses per semester, two in the first eight-week session, and two in the second. You may take more or fewer courses to match your personal schedule and learning style.

PROGRAM-LEVEL OUTCOMES

1. Understand how to specify, install, program, operate, troubleshoot, and modify electronics systems.
2. Demonstrate effective skills in written and spoken communication.

YEAR ONE		UNITS
ESYS 50	Introduction to Electronic Systems Technology	2
ESYS 51	Fabrication Techniques for Electronic Systems Technology	2
ESYS 63A	IT Essentials: PC Hardware and Software I	2
ESYS 63B	IT Essentials: PC Hardware and Software II	2
ESYS 52	Electronic Systems Measurement and Troubleshooting	2
ESYS 54	Analog Circuits and Semiconductor Devices	2
ESYS 55A	Microcontroller Systems	2
ESYS 55B	Digital Logic Systems	2

YEAR TWO		UNITS
ESYS 56A	Electronic Power Systems I	2
ESYS 56B	Electronic Power Systems II	2
ESYS 57A	Process Control Systems	2
ESYS 57B	PLC and Robotic System Components	2
ESYS 58	Wireless Communication Systems	2
ESYS 60	Electronic Systems Analysis	2
ESYS 61	Electronic Systems Project Management	2
ESYS 62	Home Technology Systems	2

General Education Units for A.S. Degree

For specific A.S. General Education courses refer to catalog section on A.S. Graduation Requirements.

REQUIRED FOR THE MAJOR SPECIFIC G.E. REQUIREMENT.

Complete a minimum of 3 units from Units

BUS 14	Business Communications	3
ENGL 70	Report Writing	3
INDT 74	Measurements and Calculations	3
MTH 36	Trigonometry	3
MTH 37	Trigonometry with an Emphasis on its Geometric Foundations	5
PHYS 11	Descriptive Physics	4
CNT 62A	Cisco Networking Academy CCNA 1&2	4
CNT 62B	Cisco Networking Academy CCNA 3-4	4

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS **32**



CONSUMER TECHNOLOGY

CERTIFICATE OF ACHIEVEMENT

PROGRAM-LEVEL OUTCOMES

1. Demonstrate how to install, configure and troubleshoot home technology systems.
2. Demonstrate proficiency in configuring, troubleshooting, and updating personal computer systems.
3. Prepare a basic business plan with a core value proposition for an entrepreneurial venture.
4. Prepare high quality marketing plans for a new venture.
5. Evaluate and solve the challenges faced by entrepreneurs.

REQUIRED CORE

		UNITS
ESYS 50	Introduction to Electronic Systems Technology	2
ESYS 51	Fabrication Techniques for Electronic Systems Technology	2
ESYS 63A	IT Essentials: PC Hardware and Software I	2
ESYS 63B	IT Essentials: PC Hardware and Software II	2
ESYS 52	Electronic Systems Measurement and Troubleshooting	2
ESYS 54	Analog Circuits and Semiconductor Devices	2
ESYS 62	Home Technology Systems	2
ESYS 56A	Electronic Power Systems I	2

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS 16

INDUSTRIAL ELECTRONIC TECHNOLOGY

CERTIFICATE OF ACHIEVEMENT

PROGRAM-LEVEL OUTCOMES

1. Understand how to specify, install, program, operate, troubleshoot, and modify electronics systems.
2. Demonstrate effective skills in written and spoken communication.

REQUIRED CORE

		UNITS
ESYS 50	Introduction to Electronic Systems Technology	2
ESYS 52	Electronic Systems Measurement and Troubleshooting	2
ESYS 57A	Process Control Systems	2
ESYS 57B	PLC and Robotic System Components	2
ESYS 51	Fabrication Techniques for Electronic Systems Technology	2
ESYS 55A	Microcontroller Systems	2
ESYS 55B	Digital Logic Systems	2
ESYS 58	Wireless Communication Systems	2
ESYS 56A	Electronic Power Systems I	2

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS 18

ELECTRONIC SYSTEMS TECHNOLOGY (ESYS)

50 INTRODUCTION TO ELECTRONIC SYSTEMS TECHNOLOGY 2 UNITS

Introduction to electronic systems and circuits. Overview of career opportunities and job duties with electronic systems technology. Direct current and alternating current circuits including Ohm's law and Kirchhoff's laws. Measurement and characterization of electronic systems at the block diagram level. Laboratory practice includes the proper use of standard test instruments. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

51 FABRICATION TECHNIQUES FOR ELECTRONIC SYSTEMS TECHNOLOGY 2 UNITS

Prototype development includes sheet metal, printed circuit board layout and fabrication, connection and soldering techniques, use of hand tools, and machines in electronic fabrication. Use of computer software tools as applied to electronic fabrication. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

52 ELECTRONIC SYSTEMS MEASUREMENT AND TROUBLESHOOTING 2 UNITS

Measurement and characterization of electronic systems, data collection, and reporting results in industry-accepted formats. Comparing system and component performance to published specifications and developing troubleshooting techniques. Laboratory practice includes the proper use of standard test instruments. Prerequisite: Electronic Systems Technology 50 or equivalent. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

54 ANALOG CIRCUITS AND SEMICONDUCTOR DEVICES 2 UNITS

Analog circuits, including amplifiers, oscillators, and filters, using single-chip analog devices, operational amplifiers, field-effect transistors, bipolar transistors. Prerequisite: Electronic Systems Technology 52 or equivalent. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

55A MICROCONTROLLER SYSTEMS 2 UNITS

Architecture, programming, application and troubleshooting of single-chip microcontroller electronic systems. Digital building blocks, number systems, programming in high-level and assembly language. Interfacing the microcontroller for practical applications, measurement techniques and instrumentation, troubleshooting techniques. Prerequisite: Electronic Systems Technology 50 or equivalent. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

**55B DIGITAL LOGIC SYSTEMS 2 UNITS**

Architecture, programming, application and troubleshooting of complex programmable logic device (CPLD) electronic systems. Includes programming in VHDL. Digital building blocks, number systems, Boolean algebra, combinational and sequential logic, integrated logic families, digital circuit measurement techniques and instrumentation, troubleshooting techniques. Prerequisite: Electronic Systems Technology 55A or equivalent. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

56A ELECTRONIC POWER SYSTEMS I 2 UNITS

Switching power supply systems. Alternative energy systems. Advanced power bus management and control systems. Prerequisite: Electronic Systems Technology 52 or equivalent. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

56B ELECTRONIC POWER SYSTEMS II 2 UNITS

Power supply transformer, rectifier and filtering circuits. Measurement of line and load regulation, ripple, and efficiency in linear and switching power supply systems. Linear regulation techniques and troubleshooting. Prerequisite: Electronic Systems Technology 56A or equivalent. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

57A PROCESS CONTROL SYSTEMS 2 UNITS

Programmable logic control systems; function, interrelationship, and troubleshooting of systems components. PLC input/output systems and requirements. Ladder logic programming using basic I/O instructions, logic instructions, timers, counters, and comparison functions. Prerequisite: Electronic Systems Technology 50 (may be taken concurrently). 1 hour lecture, 2 hours laboratory. Transfer: CSU.

57B PLC AND ROBOTIC SYSTEM COMPONENTS 2 UNITS

Integration of sensors, indicators, controllers and final control elements for Programmable Logic Control and robotic systems. Control loop theory, PID, loop tuning, and control loop troubleshooting Process control system design and tuning. Prerequisite: Electronic Systems Technology 57A. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

58 WIRELESS COMMUNICATION SYSTEMS 2 UNITS

Introduction to wireless communications concepts and data communications, including modulation techniques, antenna and wave propagation. Digital data communication fundamentals and digital modulation techniques. Fiber optic and laser technology. Prerequisite: Electronic Systems Technology 52 or equivalent. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

60 ELECTRONIC SYSTEM ANALYSIS 2 UNITS

Analysis of electronic systems and circuits using modern software tools and mathematical formulae. Reactive circuits, active devices, amplifier, oscillator, and filter circuits. Includes many, but not all, of the objectives for the ETA and IS CET Certified Electronic Technician exam. Prerequisite: Electronic Systems Technology 54 and Industrial Technology 74 or equivalent or Mathematics 53 or eligibility for Mathematics 55. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

61 ELECTRONIC SYSTEMS PROJECT MANAGEMENT 2 UNITS

Planning, tracking, and completing electronics prototype projects; includes chassis, printed circuit board layout, connection and soldering techniques, use of hand tools, and machines in electronic fabrication. Use of computer software tools as applied to project management and electronic fabrication. Prerequisite: Electronic Systems Technology 51 and 54 or equivalent. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

62 INTERNET OF THINGS: HOME TECHNOLOGY SYSTEMS 2 UNITS

The interconnections of people, process, data, and things; the four "pillars" that form the "Internet of Things (IoT)." Hands-on training in digital home networking and integration of IoT security and entertainment systems. Home network design and configuration. Testing and troubleshooting of IoT systems.

63A IT ESSENTIALS: PC HARDWARE AND SOFTWARE I 2 UNITS

(See also Computer Network Technology 83A)
First of two courses of the Cisco Networking Academy IT Essentials program. Students will describe the internal components of a computer, assemble a computer system, install an operating system, and troubleshoot using system tools and diagnostic software. Students will also connect to the Internet and share resources in a network environment. Additional topics covered include laptops and portable devices, wireless connectivity and basic implementation skills, Voice over Internet Protocol (VoIP), security, safety and environmental issues, applied network configuration and troubleshooting skills, and communication skills. (May not receive credit if Computer Networking Technology 83A has been completed). 1 hour lecture, 2 hours laboratory. Transfer: CSU.

63B IT ESSENTIALS: PC HARDWARE AND SOFTWARE II 2 UNITS

(See also Computer Network Technology 83B)
Second of two courses of the Cisco Networking Academy IT Essentials program. Students will describe the process for upgrading computer hardware, assemble a computer system, upgrade, configure, and optimize an operating system, and troubleshoot using system tools and diagnostic software. Students will also connect to the Internet and share resources in a network environment. Additional advanced topics covered include laptops and portable devices, wireless connectivity, Voice over Internet Protocol (VoIP), security, applied network configuration and troubleshooting skills. (May not receive credit if Computer Networking Technology 83B has been completed) Prerequisite: ESYS 63A or CNT 83A (each completed with a grade of "C" or higher). 1 hour lecture, 2 hours laboratory. Transfer: CSU.

70 BRIDGE TO ELECTRONIC SYSTEMS TECHNOLOGY 3 UNITS

Basic electronic theory, formulas, and calculations applied to DC and AC circuits and systems. Electrical quantities and units, including unit prefixes, scientific notation and engineering notation. Algebraic manipulation of formulas, reading and plotting of four-quadrant graphs. Logarithmic functions applied to decibel, time constant, and other electronic applications. Trigonometric functions applied to AC sine wave circuits. Transfer: CSU

72A NETWORKING FOR HOME & SMALL BUSINESS 3 UNITS

(See also Computer Network Technology 82A)

First of four courses in the Cisco® Networking Academy® CCNA® Discovery program, providing career-oriented, IT-skills instruction. CCNA Discovery prepares the student for the Cisco Certified Entry Network Technician (CCENT™) and Cisco Certified Network Associate (CCNA™) exams. Students will plan, install, verify and troubleshoot a personal computer and home/small business network, configure Internet applications and services, and recognize and mitigate security threats. (May not receive credit if Computer Applications Systems 92A or Computer Networking Technology 82A has been completed). 2 hours lecture, 2 hours laboratory. Transfer: CSU.

72B NETWORKING FOR SMALL TO MEDIUM BUSINESS OR ISP 3 UNITS

(See also Computer Network Technology 82B)

Second of four courses in the Cisco® Networking Academy® CCNA® Discovery program, providing career-oriented, IT-skills instruction. CCNA Discovery prepares the student for the Cisco Certified Entry Network Technician (CCENT™) and Cisco Certified Network Associate (CCNA™) exams. Students will install, configure, and troubleshoot Cisco IOS® devices, plan a wired network infrastructure, implement basic WAN connectivity, demonstrate proper disaster recovery procedures, perform server backups, monitor network performance, isolate failures, and troubleshoot problems using logical application of the OSI model and the process of encapsulation. (May not receive credit if Computer Applications Systems 92B or Computer Networking Technology 82B has been completed). Prerequisite: CAS 92A or ESYS 72A or CNT 82A (each completed with a grade of "C" or higher). 2 hours lecture; 2 hours laboratory. Transfer: CSU.

72C ROUTING AND SWITCHING IN THE ENTERPRISE 3 UNITS

(See also Computer Network Technology 82C)

Third of four courses in the Cisco® Networking Academy® CCNA® Discovery program, providing career-oriented, IT-skills instruction. CCNA Discovery prepares the student for the Cisco Certified Entry Network Technician (CCENT™) and Cisco Certified Network Associate (CCNA™) exams. Students will implement, configure, and troubleshoot an enterprise LAN network utilizing VLANs, access control lists, WAN links and advanced routing protocols. Prerequisite: CAS 92B or ESYS 72B or CNT 82B (each completed with a grade of "C" or higher). 2 hours lecture; 2 hours laboratory. Transfer: CSU.

72D DESIGNING AND SUPPORTING COMPUTER NETWORKS 3 UNITS

(See also Computer Network Technology 82D)

Fourth of four courses in the Cisco® Networking Academy® CCNA® Discovery program, providing career-oriented, IT-skills instruction. CCNA Discovery prepares the student for the Cisco Certified Entry Network Technician (CCENT™) and Cisco Certified Network Associate (CCNA™) exams. Students will implement, configure, and troubleshoot an enterprise LAN network utilizing VLANs, access control lists, WAN links and advanced routing protocols. Prerequisite: CAS 92C or ESYS 72C or CNT 82C (each completed with a grade of "C" or higher). 2 hours lecture; 2 hours laboratory. Transfer: CSU.



EMERGENCY MEDICAL SERVICES (EMS)

1 FIRST RESPONDER

2.5 UNITS

This course is designed to provide students with the basic knowledge and skills to manage many medical and trauma-related emergencies; includes cardiopulmonary resuscitation and prevention of disease transmission. Students will learn through lecture and lab practice how their role as an Emergency medical responder aligns with the Emergency Medical Services community. Successful completion of the knowledge and skills tests qualifies for an Emergency Medical Responder Certificate and an American Heart Association "Basic Life Support Healthcare Provider" Certificate. May not receive credit if Health 61 has been completed. 2 hours. Transfer: CSU.

2 EMERGENCY MEDICAL TECHNICIAN – BASIC

6.5 UNITS

Provides training in the foundation skills and knowledge required of the EMT-1 scope of practice. The EMT-1 certification is the minimum requirement for ambulance attendants and most entry level firefighter positions. EMT-1 certification is also required for entry into paramedic training. This training program is accredited by the Alameda County Emergency Medical Services Agency. This course enrollment also requires: Evidence of immunizations for measles, mumps, and rubella. Evidence of Hepatitis B immunization series completed or in progress. A current (within one year of course completion) negative TB test is also required. Current healthcare CPR certification is required. May not receive credit if EMS 2 has been completed. Corequisite: EMS 2W. Prerequisite: EMS 1 (completed with a grade of "C" or higher). 5 hours lecture, 4.5 hours laboratory. Transfer: CSU.

2W PATIENT STABILIZATION, EXTRICATION & TRIAGE

.5 UNIT

Patient stabilization techniques to include safe patient extrication from a simulated motor vehicle accident. Includes triage for multi-casualty incident/disaster management. May not receive credit if EMS 2W has been completed. Corequisite: EMS 2. 3 total hours lecture, 4 total hours laboratory. Transfer: CSU.

4 EMERGENCY MEDICAL TECHNICIAN – BASIC – REFRESHER

1.5 UNITS

Provides training in the foundation skills and knowledge required of the EMT-Basic scope of practice. The EMT-B certification is the minimum requirement for ambulance attendants and most entry level Firefighter positions. EMT certification is also required for entry into Paramedic school. 30 total hours accredited by the Alameda County Emergency Medical Services Agency. May not receive credit if Health 85 has been completed. Prerequisite: EMS2 and EMS2W (both completed with a grade of "C" or higher) or current EMT certification.

ENGINEERING (ENGR)

DEGREE:

AS—ENGINEERING

CERTIFICATE OF PROFICIENCY:

TECHNICAL DESIGN

The Associate in Science degree is designed to provide the foundation for subsequent transfer to a CSU or UC Engineering program. The core courses listed below fulfill most of the lower division requirements for the majority of CSU and UC engineering majors. The Associate in Science degree, as well as putting students on the path to transfer, ensures that students develop a strong foundation in engineering, mathematics, and the sciences.

Students should note that transfer-course requirements vary among universities, and between majors in the different branches of engineering. Students seeking to transfer with an engineering major are strongly advised to consult with Chabot Counseling. Counselors will assist the student with development of a Student Educational Plan (SEP) that prepares the student for transfer to the desired university in the engineering major of his/her choice. Students are also encouraged to consult the ASSIST webpage (www.assist.org) for more information on engineering transfer-course agreements between Chabot College and the CSU/UC Colleges of Engineering.

ENGINEERING DEGREE RESIDENCY REQUIREMENT

Eligibility for the Engineering Degree requires completion at Chabot College of the courses: ENGR 25, ENGR 36, ENGR 43, and ENGR 45.

ENGINEERING

ASSOCIATE IN SCIENCE DEGREE

The Associate in Science degree is designed to provide the foundation for subsequent transfer to a CSU or UC Engineering program. The core courses listed below fulfill most of the lower division requirements for the majority of CSU and UC engineering majors. The Associate in Science degree, as well as putting students on the path to transfer, ensures that students develop a strong foundation in engineering, mathematics, and the sciences. Students should note that transfer-course requirements vary among universities, and between majors in the different branches of engineering. Students seeking to transfer with an engineering major are strongly advised to consult with Chabot Counseling. Counselors will assist the student with development of a Student Educational Plan (SEP) that prepares the student for transfer to the desired university in the engineering major of his/her choice. Students are also encouraged to consult the ASSIST webpage (www.assist.org) for more information on engineering transfer-course agreements between Chabot College and the CSU/UC Colleges of Engineering.

**PROGRAM-LEVEL OUTCOMES**

1. Demonstrate an ability to apply knowledge of mathematics, science, and engineering.
2. Demonstrate an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

Engineering Degree Residency Requirement**Units**

Eligibility for the Engineering Degree requires completion at Chabot College of the courses:

ENGR 25	Computational Methods for Engineers and Scientists	3
ENGR 36	Engineering Mechanics -Statics	3
ENGR 43	Electrical Circuits and Devices and	4
ENGR 45	Materials of Engineering	3

YEAR ONE**UNITS**

ENGR 25	Computational Methods for Engineers and Scientists	3
CHEM 1A	General College Chemistry I	5
MTH 1	Calculus I	5
MTH 2	Calculus II	5
PHYS 4A	General Physics I	5

YEARTWO**UNITS**

ENGR 36	Engineering Mechanics -Statics	3
ENGR 43	Electrical Circuits and Devices	4
ENGR 45	Materials of Engineering	3
PHYS 4B	General Physics II	5

Plus One (1) Course from the Following:**Units**

BIOL 2A *	Principles of Biology I	5
CHEM 1B †	General College Chemistry II	5
ENGR 10	Introduction to Engineering	2
ENGR 11	Engineering Design and Analysis	2
ENGR 22 ‡	Engineering Design Graphics	3
MTH 4 §	Elementary Differential Equations	3
MTH 6 §	Elementary Linear Algebra	3
PHYS 4C	General Physics III	5

General Education Units for A.S. Degree

For specific A.S. General Education courses refer to catalog section on A.S. Graduation Requirements.

REQUIRED FOR THE MAJOR SPECIFIC G.E. REQUIREMENT. Complete a minimum of 3 units from:**Units**

BUS 40	International Business	3
CSCI 14	Introduction to Structured Programming In C++	4
COMM 1	Fundamentals of Speech Communication	3
ECN 1	Principles of Microeconomics	3

- * Bio Engineering, Biomedical Engineering, and Biomechanical Engineering majors should take Biology 2A.
- † Chemical Engineering and Materials Engineering majors should take Chemistry 1B.
- ‡ Civil, Industrial, and Mechanical Engineering majors should take Engineering 22.
- § Engineering Science majors, and students interested in applied mathematics, should take Mathematics 4 and 6.

Students should note that General Education requirements vary significantly among CSU/UC Colleges of Engineering. In particular, most CSU/UC Engineering programs discourage the use of the IGETC GE pattern in favor of program-specific courses. The GE courses listed above satisfy many, but perhaps not all, of the GE requirements of a specific university engineering program. In these cases students complete any remaining GE courses at the university after transfer.

The above listing is a suggested sequence only. Some courses have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS**40 - 43****TECHNICAL DESIGN****CERTIFICATE OF PROFICIENCY**

Students develop the technical design skills required for many Design-Drafter professional positions. Completing the required courses prepares the students for a Design-Drafting career with Civil-Engineering, Building Design-Construction, and Electro-Mechanical Device firms.

CAREER OPPORTUNITIES IN ENGINEERING

As noted above students who complete these required courses will have career opportunities with firms that design or produce Civil Engineering structures, e.g., roads, water-systems, and other large objects that comprise the "built" environment; Buildings and or Houses; Mechanical or ElectroMechanical devices.

REQUIRED COURSES**UNITS**

ENGR 10	Introduction to Engineering	2
ENGR 11	Engineering Design and Analysis	2
ENGR 22	Engineering Design Graphics	3
ENGR 25	Computational Methods for Engineers and Scientists	3
	or	
MTH 25	Computational Methods for Engineers and Scientists	3
	or	
PHYS 25	Computational Methods for Engineers and Scientists	3
	or	
MTH 43	Introduction to Probability and Statistics	4
	or	
MTT 50	Blueprint Reading, Sketching, and CAD	3

TOTAL UNITS**10 - 11**



ENGINEERING (ENGR)

10 INTRODUCTION TO ENGINEERING 2 UNITS

Introduction to careers, activities, and topics related to the field of engineering, including computer applications design and problem solving. Strongly recommended: eligibility for English 1A. 2 hours. Transfer: CSU; UC.

11 ENGINEERING DESIGN AND ANALYSIS 2 UNITS

An introduction to the engineering design process from a practical and professional perspective. Student teams work on a term-long engineering project that entails the creation of a design for a useful object with moving parts that requires the application of some external power source. Conceptual and Critical/Final design reviews require teams to describe and justify the effectiveness, and likely customer-acceptance, of the design. The student designers: select materials, components, sources of supply; produce detailed parts-lists; create using CAD-tools detailed and dimensioned production and assembly drawings; create formal electrical and fluid-control component interconnection schematics; provide a detailed estimate for the production-cost. When needed students use engineering software tools (such as MATLAB) to assess and predict the kinematical, structural, thermal, electrical, fluid-flow, wear/corrosion, optical, and magnetic performance of the proposed design. Students are encouraged to build from the design plans a form-and-fit mock-up, or if possible a fully functioning prototype. Strongly Recommended: ENGR 22. 1 hours lecture, 3 hours laboratory. Transfer: CSU; UC.

22 ENGINEERING DESIGN GRAPHICS 3 UNITS

Introduction to the engineering-design process, and to technical-graphic communications tools used by engineers. Conceptual design of products. Development of spatial reasoning skills. Orthographic and axonometric projection-drawing techniques. Tolerance analysis for fabrication. Documentation of designs through engineering working-drawings. Use of AutoCAD Computer-Assisted Drawing software as a design tool. Basic CAD 3-dimensional solid-modeling. Strongly Recommended: MTH 37 and , ENGL 1A. 2 hours lecture, 3 hours laboratory. Transfer: CSU; UC.

25 COMPUTATIONAL METHODS FOR ENGINEERS AND SCIENTISTS 3 UNITS

Methodology and techniques for solving engineering/science problems using numerical-analysis computer-application programs MATLAB and EXCEL. Technical computing and visualization using MATLAB software. Examples and applications from applied-mathematics, physical-mechanics, electrical circuits, biology, thermal systems, fluid systems, and other branches of science and engineering. May not receive credit if Mathematics 25 or Physics 25 has been completed. Prerequisite: MTH 1. 2 hours lecture, 3 hours laboratory. Strongly Recommended: Computer Science 8. Transfer: CSU; UC.

36 ENGINEERING MECHANICS - STATICS 3 UNITS

Force systems under equilibrium conditions; vector properties of forces, moments, couples, and resultants; rigid body structures; hydrostatics; shear and bending-moment diagrams; friction; centroids; area/mass moments of inertia. Graphical, algebraic, and numerical (computer) solutions of vector mechanics problems. Prerequisite: PHYS 4A (completed with a grade of "C" or higher) and , ENGR 25 (completed with a grade of "C" or higher) Strongly Recommended: MTH 2 concurrent enrollment encouraged). 2 hours lecture, 3 hours laboratory. Transfer: CSU; UC.

43 ELECTRICAL CIRCUITS AND DEVICES 4 UNITS

Introduction to basic electrical engineering circuit-analysis and devices. DC, transient and AC circuit analysis methods, Kirchoff's laws, nodal/mesh analysis, network theorems, voltage and current sources, resistors, capacitors and inductors. Thévenin/Norton equivalent circuits. Natural and forced response of first and second order circuits. Steady-state sinusoidal circuit voltage/current analysis, and power calculations. Frequency response, phasors, Bode plots and transfer functions. Low/High/Band pass filters. Operational Amplifiers in DC, transient, and AC circuits. Diode and NMOS/PMOS FET characteristics. Diode and MOSFET circuits. Introduction to basic integrated-circuit technology and layout. Digital signals, logic gates, switching. Combinatorial logic circuits using AND/NAND OR/NOR gates. Sequential logic circuits using RS, D, and JK Flip-Flop gates. Computer based circuit-operation simulation using SPICE and MATLAB software. Electronics laboratory exercises demonstrating basic instruments, and experimental techniques in Electrical Engineering: DC current/voltage supplies, Digital MultiMeters (DMM), RLC Meters, oscilloscopes, and AC function generators. Measurements of resistance, inductance, capacitance, voltage, current, transient response, and frequency response. 3 hours lecture, 3 hours laboratory. Prerequisite: PHYS 4A (completed with a grade of "C" or higher) and , ENGR 25 (completed with a grade of "C" or higher). Strongly Recommended: PHYS 4B (concurrent enrollment encouraged). Transfer: CSU; UC.

45 MATERIALS OF ENGINEERING 3 UNITS

Application of principles of chemistry and physics to the properties of engineering materials. The relation of microstructure to mechanical, electrical, thermal and optical properties of metals. Solid material phase equilibria and transformations. The physical, chemical, mechanical and optical properties of ceramics, composites, and polymers. Operation and use of materials characterization instruments and methods. 2 hours lecture, 3 hours laboratory. Prerequisite: PHYS 4A (completed with a grade of "C" or higher) and , ENGR 25 (completed with a grade of "C" or higher) and , CHEM 1A (completed with a grade of "C" or higher). Transfer: CSU; UC.

ENGLISH (ENGL)

DEGREE:

AA-T—ENGLISH

AA—ENGLISH (EMPHASIS IN LITERATURE)

CERTIFICATE:

CREATIVE WRITING

WRITING

ENGLISH

ASSOCIATE IN ARTS FOR TRANSFER DEGREE

The Associate in Arts in English for Transfer (AA-T), like the Associate in Arts in English (AA), provides major preparation in English through an introduction to composition, critical thinking, literature, creative writing and related areas of study. Either degree is useful preparation for other liberal arts degrees, and will offer students an enriched background towards preparation in many diverse professional fields. However, the intent of the AA-T is to assist students in transferring to the California State University system. California Community College students who are awarded the English AA-T degree are guaranteed admission with junior standing in the CSU system, and given priority admission consideration to their local CSU campus to a program that is deemed similar to their community college major. For more information on the AA-T degree, consult with a counselor.

CAREER OPPORTUNITIES IN ENGLISH

English majors go into a variety of fields, including law, education, publishing, business, government, media relations, entertainment, counseling, journalism, technical writing, nonprofit, development and fundraising, and many more.

REQUIRED CORE

		UNITS
ENGL 7	Critical Thinking and Writing across Disciplines	3
ENGL 4	Critical Thinking and Writing about Literature	3

LIST A: Select two (6 units)

ENGL 35	Modern and Contemporary U.S. Literature	3
ENGL 41	World Literature (17th Century to the Present)	3

LIST B: Select One (3 units) Units

ENGL 20	Studies in Shakespeare	3
ENGL 21	The Evolution of the Black Writer	3
ENGL 22	Mexican American/Latino Literature of the U.S.	3
ENGL 24	Storytelling in Modern American Novels and Films	3
ENGL 25	Asian-American Literature	3
ENGL 32	U.S. Women's Literature	3
ENGL 45	Studies in Fiction	3
ENGL 11A	Introduction to Creative Writing	3

LIST C: Select One (3 units)

Any course from List B not already used, or:

		Units
ENGL 12A	The Craft of Writing - Fiction	3
ENGL 13A	Craft of Writing - Poetry	3
ENGL 26	The Literature of Immigration and Migration	3
ENGL 28	Classic and Contemporary Youth Literature	3
ENGL 31	Introduction to Gay and Lesbian Literature	3
ENGL 48	The Literature of the Holocaust	3
COMM 2	Oral Interpretation of Literature	3
THTR 10	Introduction to Theater Arts	3
MCOM 20	Journalism: Newswriting and Information Gathering	3

General Education for Transfer to CSU

Required courses for the Major: 18 units

CSU GE or IGETC (CSU) 37-39 units

(possible double counting 12-14 units)

CSU Transfer Electives as needed to reach 60 CSU transferable units.

TOTAL UNITS

18





**ENGLISH
(EMPHASIS IN LITERATURE)
ASSOCIATE IN ARTS**

The English Associate in Arts degree will allow students to fulfill the first two years of coursework towards a bachelor's degree in English while also fulfilling general education requirements. In addition, this degree is useful preparation for other liberal arts degrees, and will offer students an enriched background towards professional preparation in fields from education to law. All of the courses for the degree transfer to universities and colleges.

CAREER OPPORTUNITIES IN ENGLISH

English majors go into a variety of fields, including law, education, publishing, business, government, media relations, entertainment, counseling, journalism, technical writing, nonprofit, development and fundraising, and many more.

PROGEAM LEARNING OUTCOMES

1. Demonstrate an ability to read and understand complex academic texts.
2. Demonstrate a critical response to the ideas and information in academic texts.

REQUIRED CORE (6 UNITS)

UNITS

ENGL 1A	Critical Reading and Composition and	3
ENGL 4	Critical Thinking and Writing about Literature	3

ELECTIVE CLASSES

UNITS

List A: Select Three (9 units) Units

ENGL 20	Studies in Shakespeare or	3
ENGL 21	The Evolution of the Black Writer or	3
ENGL 22	Mexican American/Latino Literature of the U.S. or	3
ENGL 24	Storytelling in Modern American Novels and Films or	3
ENGL 25	Asian-American Literature or	3
ENGL 26	The Literature of Immigration and Migration or	3
ENGL 28	Classic and Contemporary Youth Literature or	3
ENGL 31	Introduction to Gay and Lesbian Literature or	3
ENGL 32	U.S. Women's Literature or	3
ENGL 35	Modern and Contemporary U.S. Literature or	3
ENGL 41	World Literature (17th Century to the Present) or	3
ENGL 45	Studies in Fiction or	3
ENGL 48	The Literature of the Holocaust	3

ADDITIONAL ELECTIVE CLASSES

List B: Select One (3 units)

Any additional course from the list above, or:		Units
ENGL 7	Critical Thinking and Writing across Disciplines or	3
ENGL 11A	Introduction to Creative Writing or	3
ENGL 12A	The Craft of Writing - Fiction or	3
ENGL 13A	Craft Of Writing - Poetry or	3
SERV 85A *	Learning in Action: Beginning	3

*This is a variable unit course which must be taken for 3 units to fulfill List B requirements for this degree

GENERAL EDUCATION COURSES

UNITS

For specific General Education courses refer to catalog section on A.A. Graduation Requirements.

TOTAL UNITS

18

**CREATIVE WRITING
CERTIFICATE**

The Creative Writing certificate allows students to focus on developing their creative writing skills while exposing them to high-quality creative work by professional writers.

CAREER OPPORTUNITIES IN ENGLISH

A Creative Writing Certificate can be useful preparation for a variety of Liberal Arts majors and many professional fields, including journalism, advertising, public relations, education, publishing, nonprofit, and more.

PROGRAM-LEVEL OUTCOMES

1. Demonstrate a body of quality creative work.
2. Evaluate and analyze a critical response to the creative writings of others.

CORE COURSES

**Select three courses from the following
for a total of 9 units:**

Units

ENGL 11A	Introduction to Creative Writing	3
ENGL 12A	The Craft of Writing - Fiction	3
ENGL 13A	Craft Of Writing - Poetry	3
ENGL 11B	Intermediate Creative Writing	3
ENGL 12B	Intermediate Craft of Writing - Fiction	3
ENGL 13B	Intermediate Craft of Writing - Poetry	3

**ELECTIVE CLASSES:**

Select two courses from the following
for additional 6 units:

	Units
ENGL 20 Studies in Shakespeare	3
ENGL 21 The Evolution of the Black Writer	3
ENGL 22 Mexican American/Latino Literature of the U.S.	3
ENGL 24 Storytelling in Modern American Novels and Films	3
ENGL 25 Asian-American Literature	3
ENGL 26 The Literature of Immigration and Migration	3
ENGL 28 Classic and Contemporary Youth Literature	3
ENGL 31 Introduction to Gay and Lesbian Literature	3
ENGL 32 U.S. Women's Literature	3
ENGL 35 Modern and Contemporary U.S. Literature	3
ENGL 41 World Literature (17th Century to the Present)	3
ENGL 45 Studies in Fiction	3
ENGL 48 The Literature of the Holocaust	3
THTR 16A Introduction to Dramatic Writing	3
MCOM 25 Magazine and Newspaper Feature Writing	3

TOTAL UNITS 15

WRITING CERTIFICATE

CORE COURSES

	UNITS
ENGL 1A * Critical Reading and Composition	3
ENGL 4 * Critical Thinking and Writing about Literature or	3
ENGL 7 * Critical Thinking and Writing across Disciplines Select from the Following for Additional 9 Units	3

Select one course from:

	Units
ENGL 70 * Report Writing	3
ENGL 4 * Critical Thinking and Writing about Literature or	3
ENGL 7 * Critical Think/Write Across	0
THTR 16 Dramatic Writing I	3

Select one course from:

	Units
MCOM 42 ** Writing for Broadcasting	3
MCOM 20 *** Journalism: Newswriting and Information Gathering	3
BUS 14 * Business Communications	3

Select one course from:

	Units
ENGL 11A * Introduction to Creative Writing	3
ENGL 12A * The Craft of Writing - Fiction	3
ENGL 13A * Craft Of Writing - Poetry	3

TOTAL UNITS 15

*offered fall and spring semester

**offered in spring only

***offered in fall only

COMPOSITION & LITERATURE**ENGLISH (ENGL)****1A CRITICAL READING AND COMPOSITION 3 UNITS**

Integrated approach to reading, writing, and critical thinking intended to develop ability to read and write complex, college-level prose. Examination of ideas in relation to individuals' world view and contexts from which these ideas arise. Some research required. Prerequisite: English 101B, 102, or appropriate skill level demonstrated through English assessment process. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: ENGL 100.

4 CRITICAL THINKING AND WRITING ABOUT LITERATURE 3 UNITS

Develops critical thinking, reading, and writing skills as they apply to the analysis of fiction (short stories and novel), poetry and drama. Prerequisite: English 1A (completed with a grade of "C" or higher.) 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: ENGL 120.

7 CRITICAL THINKING AND WRITING ACROSS DISCIPLINES 3 UNITS

Develops critical thinking, reading, and writing skills as they apply to the analysis of primary and secondary non-fiction books, articles, and essays from a range of academic and cultural contexts. Theme based. Emphasis on the techniques and principles of effective written argument in research-based writing across disciplines. Prerequisite: English 1A (completed with a grade of "C" or higher. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: ENGL 105.

10 UNDERGRADUATE TEACHING ASSISTANT IN ENGLISH 1-2 UNITS

Provides the opportunity for students interested in a teaching career to assist an instructor in one target course. Practice in presenting lessons, responding to students' written work, creating assignments, and facilitating group discussions. Recommendation of target course instructor required. Prerequisite: English 1A (completed with a grade of "C" or higher). 2-4 hours. Transfer: CSU.

11A INTRODUCTION TO CREATIVE WRITING 3 UNITS

Elements of creative writing, including narrative, verse and dialogue, using materials drawn from individual's own work and selected texts. Strongly Recommended: Eligibility for ENGL 1A. 3 hours. Transfer: CSU; CSU/GE; C-ID: ENGL 200.

11B INTERMEDIATE CREATIVE WRITING 3 UNITS

Elements of creative writing at an intermediate level. Builds on the skills developed in English 11A including short story development, poetry writing and play writing, using materials drawn from individual's own work and selected texts. Prerequisite: ENGL 11A (completed with a grade of "C" or higher). 3 hours. Transfer: CSU.

**12A THE CRAFT OF WRITING—FICTION 3 UNITS**

Practice in writing fiction. Developing internal and external sources for stories and novels; biographical sources, characterization, plotting, points of view, narrative techniques; analysis and criticism of published writing and individual's own work. Strongly Recommended: Eligibility for ENGL 1A. 3 hours. Transfer: CSU; CSU/GE.

12B INTERMEDIATE CRAFT OF WRITING—FICTION 3 UNIT

Practice in writing fiction at an intermediate level. Builds on the skills developed in English 12A by requiring greater use of description, detail, character development, consistent point of view, and logical plotting that avoids cliché. Focus on developing themes that create intellectual or emotional resonance. Expectation of sentence structure, grammar, and format accuracy. Develop internal and external sources for stories and novels; analysis and criticism of published work. Requires submission for publication at the end of the semester. Prerequisite: ENGL 12A (completed with a grade of "C" or higher). 3 hours. Transfer: CSU.

13A CRAFT OF WRITING—POETRY 3 UNITS

Practice in writing poetry, using materials drawn from published poetry and individual's own work for analysis and criticism, with a focus on techniques of revision. Strongly recommended: English 1A. 3 hours. Transfer: CSU; CSU/GE.

13B INTERMEDIATE CRAFT OF WRITING—POETRY 3 UNITS

Practice in writing poetry at an intermediate level. Builds on skills developed in English 13A. 13B requires: greater and more integrated use of trope, image, and metaphor; more extensive development of themes, including across different poems; more nuanced eye towards personal revision and workshop critique of classmates' poems; deeper integration of materials drawn from published poetry and individual's own work for analysis and criticism with a focus on techniques of revision. Prerequisite: ENGL 13A (completed with a grade of "C" or higher). Transfer: CSU.

19A LITERARY MAGAZINE WORKSHOP 1 UNIT

Practical workshop training in the managing, editing, and printing of a literary supplement and/or magazine. Workshop enrollment constitutes the staff of the magazine. 1 hour lecture. Transfer: CSU Strongly Recommended: Eligibility for ENGL 1A

19B INTERMEDIATE LITERARY MAGAZINE WORKSHOP 1 UNIT

Intermediate level: continued collaborative evaluation and selection of manuscripts and art work for publication in annual student journal. Magazine design and production, both print and web based. Magazine management, planning, editing, design, promotion, printing, and distribution. Strongly Recommended: Eligibility for ENGL 1A. Prerequisite: ENGL 19A (completed with a grade of "C" or higher). 1 hour lecture. Transfer: CSU.

20 STUDIES IN SHAKESPEARE 3 UNITS

Readings of the sonnets and representative comedies, histories, tragedies, and romances of William Shakespeare, with attention to the early, middle and late phases of his art and to the Age of Elizabeth. Strongly recommended: English 4 (completed with a grade of "C" or higher). 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

21 THE EVOLUTION OF THE BLACK WRITER 3 UNITS

Introduction to America black writers of fiction, poetry, drama and the essay, beginning with the African experience as it relates to storytelling, to the "Slave Narratives" and continuing to the present. Emphasis on the 20th and 21st century writers' growth and development in relation to their historical and cultural context. Strongly recommended: Eligibility for English 1A. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

22 MEXICAN AMERICAN/LATINO LITERATURE OF THE U.S. 3 UNITS

Introduction to literary works in fiction, poetry, drama and the essay which are concerned with the Mexican American/Latino cultural experience. Analysis of literature in the context of the historical growth of Mexican American/Latino identity in the United States in the 19th, 20th and 21st centuries. Strongly recommended: Eligibility for English 1A. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

24 STORYTELLING IN MODERN AMERICAN NOVELS AND FILMS 3 UNITS

A critical comparison of storytelling in modern American novels and films. Examines how each genre uses its unique form and methods to convey narrative, integrating elements of contemporary culture and history. Explores the works of diverse novelists and filmmakers in light of particular periods and themes, as well as connections and adaptations between the two genres. Strongly recommended: Eligibility for English 1A. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

25 ASIAN-AMERICAN LITERATURE 3 UNITS

Introduction to literary works of fiction, poetry, drama and the essay that reflect and explore the diversity of the Asian-American experience. Analysis of literature in the context of the historical growth of Asian-American identities with a focus on the 20th century. Strongly recommended: Eligibility for English 1A. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

26 THE LITERATURE OF IMMIGRATION AND MIGRATION 3 UNITS

Exploration of literature that reflects the diverse experience of immigrating to and migrating within the United States. Focus on historical, political, social, and cultural background and issues of assimilation and identity drawn from the work of Asian Americans, Hispanic Americans, European Americans, African Americans, Native Americans, Arab Americans, among other groups. Strongly recommended: Eligibility for English 1A. 3 hours. Transfer: CSU; CSU/GE; IGETC.



28 CLASSIC AND CONTEMPORARY YOUTH LITERATURE 3 UNITS

Social-historical context and tools for analyzing literature directed toward young readers. Emphasizes contemporary U.S. texts, classic works, and the origins of youth literature (including fables, folk tales and fairy tales). Explores subgenres and literary elements common to children's and young adult literature, including fantasy, journeys, and animal characters. Emphasizes literature from diverse authors and communities, and the impact of this literature on the psychological, sociological, and cultural growth of young readers. Strongly recommended: Eligibility for English 1A. 3 hours. Transfer: CSU; CSU/GE; IGETC.

31 INTRODUCTION TO GAY AND LESBIAN LITERATURE 3 UNITS

Introduction to novels, poems, plays, and essays by and about gay men, lesbians, and others in the GLBT community. Analysis of this literature in the context of the GLBT social and political movements of the 19th, 20th, and 21st centuries and evolving societal attitudes toward the GLBT community. Strongly recommended: eligibility for English 1A. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

32 U.S. WOMEN'S LITERATURE 3 UNITS

Chronicles the expression of U.S. women authors through readings in a variety of genres such as fiction, poetry, drama, and the essay. Explores works by authors of varied racial and ethnic backgrounds in an effort to understand the diversity of women's voices, especially in the 20th century. Strongly recommended: Eligibility for English 1A. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

35 MODERN AND CONTEMPORARY U.S. LITERATURE 3 UNITS

U.S. literature from the second half of the 19th Century to the present, including poetry, drama, prose fiction, and essays. Explores each work in relation to its social, cultural and historical contexts, and emphasizes the analysis of defining moments of the times as they are reflected in literature. Includes some research. Prerequisite: English 102 or English 101B (completed with a grade of "P" or higher) or eligibility for English 1A based on Accuplacer test score. Strongly Recommended: English 1A. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: ENGL 135.

41 WORLD LITERATURE (17TH CENTURY TO THE PRESENT) 3 UNITS

Comparative study of selected works of literature, in English and in translation, from around the world, including Africa, Europe, the Middle East, Asia, the Americas, and other areas, from the mid seventeenth century to the present. Prerequisite: English 102 or English 101B (completed with a grade of "P" or higher) or eligibility for English 1A based on Accuplacer test score. Strongly Recommended: English 1A. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: ENGL 145.

45 STUDIES IN FICTION 3 UNITS

Form, development, and cultural insights of the novel and short story; exploration of particular themes or periods as reflected in works of fiction. Strongly recommended: Eligibility for English 1A or 52A. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

48 THE LITERATURE OF THE HOLOCAUST 3 UNITS

Explores the literatures of the Holocaust through readings in a variety of genres including the memoir, the diary, the essay, as well as fiction and poetry. Historically and culturally contextualizes the literature and examines the implications of writing which attempts to represent the Nazi genocide against the Jews. Strongly recommended: Eligibility for English 1A. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

70 REPORT WRITING 3 UNITS

Preparation of reports in business, industrial and technical fields, including explanations, instructions, argumentation and other kinds of writings, based on the demands of the occupations. Strongly recommended: Eligibility for English 1A or 52A. 3 hours. Transfer: CSU.

PREPARATORY READING AND WRITING

101A READING, REASONING AND WRITING I 4 UNITS

Academic reading, critical thinking, and writing expected in transfer and associate-degree classes. First semester of a two-semester sequence. Strongly recommended: participation in the English placement process. 3 hours lecture, 2 hours individualized instruction.

101B READING, REASONING AND WRITING II 4 UNITS

Second semester study of academic reading, reasoning, and writing skills. Preparation for academic reading, critical thinking, and writing expected in transfer and associate-degree classes. Prerequisite: Successful completion of English 101A. 3 hours lecture, 2 hours individualized instruction.

102 READING, REASONING, AND WRITING- ACCELERATED COURSE 4 UNITS

Preparation for academic reading, critical thinking, and writing expected in transfer and associate-degree classes. Strongly Recommended: participation in the English placement process

115 FACULTY-STUDENT TUTORIAL: WRITING AND READING ACROSS THE CURRICULUM .5-3 UNITS

(See also General Studies 115)

Self-paced, individualized instruction in reading and writing effectiveness. Students may continue to take up to 3 units (maximum) of General Studies 115 and/or English 115 in subsequent terms. 2-6 hours laboratory.



137 PROOFREADING AND EDITING FOR COLLEGE WRITING 3 UNITS

Basic components and rules of English grammar, syntax, and punctuation. Includes parts of speech, sentence patterns, sentence construction, and identifying and correcting sentence level errors in conjunction with writing; strong emphasis on support for college-level writing in English courses and other courses requiring writing. This course is designed as a support course, to be taken concurrently with English or any class requiring academic writing. This class does not address errors that are particular to students who are non-native speakers, learning English as a second language; these issues would be addressed in the ESL 114, 121, 122, 123 series. Strongly Recommended: concurrent enrollment in any English or other course requiring academic writing. This course is designed as a support class for other classes in which writing is a focus.

LEARNING SKILLS

116 LEARNING SKILLS—DIAGNOSTIC CLINIC AND STUDY SKILLS 1 UNIT

Determination of eligibility for learning disabilities services through diagnostic testing. Includes state mandated tests. Focus on compensatory methods as derived from test results. 1 hour lecture, 1 hour laboratory.

117 LEARNING SKILLS—READING 4 UNITS

Reading to develop decoding, vocabulary and comprehension skills. Use of specialized techniques developed especially for students with learning disabilities. Includes reading comprehension strategies and vocabulary development, and other compensatory strategies. Designed for students with learning disabilities. Strongly recommended: English 116. 4 hours.

118A LEARNING SKILLS—READING/WRITING 3 UNITS

Strategies to develop college writing skills with an emphasis on developing reading comprehension strategies, summarizing and writing responses to readings. Includes compensatory strategies. Designed for students with learning disabilities to improve reading and writing skills. Strongly recommended: English 116. 3 hours.

118B LEARNING SKILLS—WRITING/READING 3 UNITS

Elements of the writing process including prewriting, organizing, writing and revising, and review of basic grammar. Includes reading comprehension strategies and review of compensatory strategies. Designed for students with learning disabilities to improve reading and writing skills. Strongly recommended: English 118A. 3 hours.

119 LEARNING SKILLS—PROBLEM SOLVING 3 UNITS

Preparation for problem solving success in college for those with learning disabilities. Emphasis on quantitative reasoning abilities needed to process and integrate word problems and related problem solving tasks. Designed for students with identified learning disabilities. Strongly recommended: English 116. 3 hours.

120 LEARNING SKILLS—STUDY STRATEGIES 2 UNITS

Guided practice in specific compensatory and study strategies for those with learning disabilities. Designed for Learning Skills students actively enrolled in an academic course. Focus on utilizing skills and strategies in conjunction with academic course materials. Designed for students with identified learning disabilities. Strongly recommended: English 116. 2 hours.

121 LEARNING SKILLS—QUANTITATIVE STRATEGIES THROUGH LANGUAGE SKILLS 2 UNITS

Guided practice in specific compensatory and study strategies for students with learning disabilities in language based quantitative reasoning skills (dyscalculia). Focus on utilizing skills and strategies in conjunction with academic course materials. Development of math and language skills. Designed for Learning Skills students enrolled in math. Strongly recommended: English 116. 2 hours.

ENGLISH AS A SECOND LANGUAGE (ESL)

Chabot College does not offer beginning or “survival” ESL courses. ESL classes at Chabot College are at intermediate and advanced levels only.

108 BASIC SPELLING FOR ENGLISH AS A SECOND LANGUAGE 1 UNIT

Basic sound/spelling patterns of English. Develops an understanding of the sounds and symbols of English, including open/closed syllables, short and long vowel sounds, consonant and consonant cluster sounds, spelling of homophones and other problem words in everyday English. Includes basic dictionary use. 1 hour lecture.

109 VOCABULARY SKILLS 1 UNIT

Build language proficiency by learning new vocabulary and developing vocabulary-building skills. 1 hour lecture, 1 hour laboratory.

110A HIGH BEGINNING READING AND WRITING 6 UNITS

A comprehensive review of basic sentence types; short writing assignments; reading fiction and nonfiction; reinforces fluency in reading, writing, and grammar. 6 hours lecture.

110B INTERMEDIATE READING AND WRITING 6 UNITS

Logical paragraph development; reading both fiction and nonfiction; emphasis on the development of vocabulary and grammatical structures of written English. 6 hours lecture. Prerequisite: ESL 110A (completed with a grade of “P” or higher) or Eligibility for ESL 110B demonstrated through the ESL Placement Process

110C HIGH INTERMEDIATE READING AND WRITING 6 UNITS

Expository paragraphs and short essays; fiction and nonfiction reading; emphasis on the development of vocabulary and grammatical structures of written English. 6 hours lecture. Prerequisite: ESL 110B (completed with a grade of "P" or higher) or Eligibility for: ESL 110C demonstrated through the ESL Placement Process

110D ADVANCED READING AND WRITING 6 UNITS

Expository essays; critical reading; emphasis on advanced development of vocabulary and grammatical structures of written English. 6 hours lecture. Prerequisite: ESL 110C (completed with a grade of "P" or higher) or eligibility for ESL 110D demonstrated through the ESL Placement Process

111A PRONUNCIATION 2 UNITS

Oral English with emphasis on strategies for clear pronunciation. 1 hour lecture, 3 hours laboratory.

111B ACADEMIC LISTENING AND SPEAKING 2 UNITS

Group and individual practice producing and responding to oral English in the academic environment. 1 hour lecture, 3 hours laboratory.


112 ENGLISH GRAMMAR: REVIEW FOR ESL 3 UNITS

Intermediate-level overview of the structures of English grammar. Important grammatical forms including verb tenses, articles, modal auxiliaries, the passive voice, reported speech, adjustive clauses, gerunds, infinitives, and conditional sentences. Strongly recommended: Eligibility for ESL 110C. 3 hours.

114 EDITING FOR THE ADVANCED ESL WRITER 2 UNITS

Use of standard written English to develop personal strategies for self-editing. Designed to ease the transition between explicit ESL instruction and the fluency demands of mainstream English curriculum. 2 hours lecture. Strongly Recommended: ESL 110D (completed with a grade of "P" or higher) or Eligibility for ENGL 101A demonstrated through the English Placement Process

116A INTRODUCTION TO REVIEW OF BASIC ENGLISH 3 UNITS

A comprehensive review of basic sentence types; short writing assignments; reading fiction and nonfiction; reinforces fluency in reading, writing, and grammar. 3 hours.

116B REVIEW OF BASIC ENGLISH 3 UNITS

A continuation of a comprehensive review of basic sentence types; short writing assignments; reading fiction and nonfiction; reinforces fluency in reading, writing, and grammar. Prerequisite: ESL 116A. 3 hours.

117A INTRODUCTION TO INTERMEDIATE READING AND WRITING 3 UNITS

Introduction to logical paragraph development; reading both fiction and nonfiction; emphasis on the development of vocabulary and grammatical structures of written English. Prerequisite: ESL 116B (completed with a grade of "P" or higher) Eligibility for: ESL 110B. 3 hours.

117B INTERMEDIATE READING AND WRITING 3 UNITS

A continuation of the study of logical paragraph development; reading fiction and nonfiction; emphasis on the development of vocabulary and grammatical structures of written English. Prerequisite: ESL 117A (completed with a grade of "P" or higher) 3 hours.

120 WRITING WORKSHOP FOR NON NATIVE SPEAKERS: EMPHASIS ON PRE-WRITING & PARAGRAPH ORGANIZATION .5 UNIT

Individualized and group instruction in writing with emphasis on pre-writing and paragraph organization. Student develops and reinforces academic writing skills through conferencing with instructor, group workshops, completing online exercises, completing and revising writing assignments, and working with instructor and tutors on individual writing needs. Strongly Recommended: Eligibility for ESL 110B. 1.5 hours laboratory.



121 WRITING WORKSHOP FOR NON-NATIVE SPEAKERS: EMPHASIS ON THESIS DEVELOPMENT AND ESSAY ORGANIZATION .5 UNIT

Individualized and group instruction in writing with emphasis on thesis development and essay organization. Student develops and reinforces academic writing skills through conferencing with instructor, group workshops, completing online exercises, completing and revising writing assignments, and working with instructor and tutors on individual writing needs. Strongly Recommended: Eligibility for ESL 110B. 1.5 hours laboratory.

122 WRITING WORKSHOP FOR NON-NATIVE SPEAKERS: EMPHASIS ON EDITING AND WRITING PROCESS .5 UNIT

This course is for non-native speakers of English who are taking English courses or other courses that require academic writing. It is also open to students enrolled in ESL courses. Editing and the writing process are emphasized, but all aspects of the writing process are addressed as needed on an individual basis. 1.5 hours laboratory.

127 ESL PRONUNCIATION LAB .5 UNIT

Individual practice producing and responding to oral English with emphasis on clear pronunciation. 1.5 hours laboratory.

128 FACULTY-STUDENT TUTORIAL: ESL .5-1 UNIT

Self-paced, individualized instruction in academic English for students who speak English as a second language. Focus on academic writing, reading, listening, and speaking skills needed in college courses. 1.5-3 hours laboratory.

130 WRITING WORKSHOP FOR NON-NATIVE SPEAKERS: EMPHASIS ON USE AND CITATION OF SOURCE MATERIALS .5 UNIT

This course is for non-native speakers of English who are taking English courses or other courses that require academic writing. It is also open to students enrolled in ESL courses. Appropriate use and citation of source materials are emphasized, but all aspects of the writing process are addressed as needed on an individual basis.

150 GUIDED ESL SKILLS LAB 1 UNIT

The guided ESL skills lab supplements classroom instruction for any ESL student. In a supportive, guided lab setting, students use educational software, online and audio-visual materials, one-on-one coaching, and other valuable resources to expand and enrich the learning experience beyond the classroom. 1 hour lecture, 1 hour laboratory.

ENTREPRENEURSHIP (ENTR)

DEGREE:

AS-ENTREPRENEURSHIP

CERTIFICATE OF ACHIEVEMENT:

INFORMATION TECHNOLOGY SUPPORT ENTREPRENEUR

CERTIFICATE OF PROFICIENCY:

ADMINISTRATIVE ASSISTANT ENTREPRENEUR

AUTOMOTIVE TECHNOLOGY ENTREPRENEUR

CONSUMER TECHNOLOGY ENTREPRENEUR

ENTREPRENEURSHIP

MUSIC INDUSTRY ENTREPRENEUR

PERSONAL FITNESS TRAINING ENTREPRENEUR

REAL ESTATE ENTREPRENEUR

ENTREPRENEURSHIP

ASSOCIATE IN SCIENCE

The degree program prepares students to start a new business, or to make an existing business more successful. Coursework focuses on development of broad business and communications skills, plus the specific skills and plans required to succeed as an entrepreneur. If your main goal is transfer to a four-year school, consider completing the AA in Business Administration instead.

YEAR ONE		UNITS
BUS 7	Accounting for Small Business	3
BUS 36	Introduction to Marketing	3
ENTR 1	Introduction to Entrepreneurship	3
BUS 16	Business Mathematics	3
ENTR 20	Marketing for Entrepreneurs	3
YEAR TWO		UNITS
BUS 10	Business Law	4
ENTR 30	The Business Plan	3
BUS 92	Excel Spreadsheets for Accounting	2
	or	
BUS 93	QuickBooks	2



**Options: Select nine units
from the following options:**

	Units
ENTR 5 The Entrepreneurial Mindset	3
ENTR 40 Business Incubation and Launch	3
BUS 12 Introduction to Business	3
BUS 22 Introduction to Management	3
BUS 50G Negotiating Skills	1
BUS 50J Time Management Skills	1
BUS 50N Dealing with Difficult People	1
BUS 50K Listening Skills	1
CAS 50 Introduction to Computer Application Systems	3
or	
CSCI 8 Computer Literacy	3
PSY 45 Psychology of Creativity and Innovation	3

A.S. GENERAL EDUCATION SPECIFIC REQUIREMENT: UNITS

BUS 14 Business Communications	3
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GENERAL EDUCATION UNITS FOR THE A.S. DEGREE

For specific A.S. General Education courses refer to the catalog section on A.S. Graduation Requirements.

TOTAL UNITS 33

**ADMINISTRATIVE ASSISTANT
CERTIFICATE OF PROFICIENCY**

The Administrative Assistant Entrepreneurship program prepares students to start a small home-based administrative support business. The focus is on building core administrative assisting capabilities supplemented with entrepreneurship and business planning courses. All courses in this certificate are offered online.

CORE COURSES	UNITS
ENTR 1 Introduction to Entrepreneurship	3
CAS 50 Introduction to Computer Application Systems	3
or	
CSCI 8 Computer Literacy	3
CAS 88A Microsoft Word I	3
CAS 54A Microsoft Excel I	3
CAS 58 Introduction to Microsoft Access	3
CAS 72F Introduction to Microsoft PowerPoint	1
BUS 50F Developing a Business Plan	1
TOTAL	17

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

**AUTOMOTIVE TECHNOLOGY
ENTREPRENEUR
CERTIFICATE OF PROFICIENCY**

The Automotive Technology Entrepreneurship program introduces students to the fundamentals of automotive repair business ownership. The focus is on developing core automotive technology skills, and key business start-up skills.

PROGRAM-LEVEL OUTCOMES

1. Understand the fundamentals of automotive technology.
2. Articulate a core value proposition for an entrepreneurial venture.
3. Demonstrate how to prepare a high quality business plan for a new venture.
4. Evaluate and solve challenges faced by entrepreneurs.

CORE COURSES

	UNITS
ATEC 50 Introduction to Automotive Technology	2.5
ATEC 6A Automotive Electrical and Electronic Fundamentals	4
ENTR 1 Introduction to Entrepreneurship	3
ENTR 30 The Business Plan	3
Elective	2.5 - 4

Elective

Choose any one of the following:

	Units
ATEC 2 Automotive Automatic Transmissions and Transaxles	3
ATEC 3 Automotive Manual Transmissions and Transaxles	3
ATEC 4 Automotive Suspension and Steering	3
ATEC 5 Automotive Braking Systems	3
ATEC 7 Automotive Heating and Air Conditioning Systems	2.5
ATEC 8 Automotive Air and Fuel Delivery Systems	4

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS 15 - 16.5

**CONSUMER TECHNOLOGY ENTREPRENEUR
CERTIFICATE OF PROFICIENCY**

The Consumer Technology Entrepreneurship program prepares students to start a home computer and home entertainment support business. The focus is on developing core electronic systems skills and key business start-up and management skills.

CAREER OPPORTUNITIES IN ENTREPRENEURSHIP

Students will be able to start a small, home-based home computer and entertainment system installation and repair business.

**PROGRAM-LEVEL OUTCOMES**

1. Demonstrate how to install, configure and troubleshoot home technology systems.
2. Demonstrate proficiency in configuring, troubleshooting, and updating personal computer systems.
3. Prepare a basic business plan with a core value proposition for an entrepreneurial venture.
4. Prepare high quality marketing plans for a new venture.
5. Evaluate and solve the challenges faced by entrepreneurs.

CORE COURSES**UNITS**

ENTR 1	Introduction to Entrepreneurship	3
ENTR 20	Marketing for Entrepreneurs	3
ESYS 50	Introduction to Electronic Systems Technology	2
ESYS 51	Fabrication Techniques for Electronic Systems Technology	2
ESYS 63A	IT Essentials: PC Hardware and Software I	2
	or	
CNT 83A	IT Essentials: PC Hardware and Software I	2
ESYS 63B	IT Essentials: PC Hardware and Software II	2
	or	
CNT 83B	IT Essentials: PC Hardware and Software II	2
ESYS 62	Home Technology Systems	2
BUS 50F	Developing a Business Plan	1

TOTAL UNITS**17**

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

ENTREPRENEURSHIP**CERTIFICATE OF PROFICIENCY**

The Entrepreneurship program prepares students to start a new business or to make an existing small business more successful. The focus is on identifying and evaluating business opportunities, developing in-depth marketing and business plans, building the skills needed to operate a small business, and developing detailed business launch plans. All courses in this certificate are offered online.

PROGRAM-LEVEL OUTCOMES

1. Identify and evaluate new business opportunities.
2. Prepare high quality marketing and business plans for a new venture.
3. Demonstrate new business idea to potential investors and partners, both orally and in writing.
4. Evaluate and solve the challenges faced by entrepreneurs.

REQUIRED FOR THE CERTIFICATE**UNITS**

ENTR 1	Introduction to Entrepreneurship	3
ENTR 20	Marketing for Entrepreneurs	3
ENTR 30	The Business Plan	3

Choose one of the following

BUS 10	Business Law	4
BUS 14	Business Communications	3

Choose one of the following:

ENTR 5	The Entrepreneurial Mindset	3
ENTR 40	Business Incubation and Launch	3
BUS 7	Accounting for Small Business	3
BUS 93	QuickBooks	2

TOTAL**14-16**

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

MUSIC INDUSTRY ENTREPRENEUR**CERTIFICATE OF PROFICIENCY**

This certificate provides students interested in self-employment in the music industry with the essential music business knowledge, a core music recording technology background AND essential entrepreneurship skills they will need to succeed in self-employment and/or operating a music business.

PROGRAM-LEVEL OUTCOMES

1. Understand and solve the challenges of self-employment in the music industry.
2. Understand and create a core value proposition for an entrepreneurial venture.
3. Prepare a high quality business plan for a new venture.
4. Effectively navigate the unique legal issues of the music business.
5. Demonstrate proficiency in the fundamentals of music recording.

CORE COURSES**UNITS**

ENTR 1	Introduction to Entrepreneurship	3
ENTR 20	Marketing for Entrepreneurs	3
MURT 21	Audio Recording I	3
	or	
MURT 22A	Electronic Music I	3
MURT 28	Music Industry Career Development	3
MURT 26	Music Business and the Law	3
BUS 50F	Developing a Business Plan	1

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS**16**



PERSONAL FITNESS TRAINING ENTREPRENEUR

CERTIFICATE OF PROFICIENCY

The Personal Fitness Training Entrepreneurship program prepares students to start a small personal fitness training business. The focus is on developing core training skills and key business start-up skills.

PROGRAM-LEVEL OUTCOMES

1. Ability to provide individualized training programs.
2. Demonstrate proficiency in preparing a basic business plan with a core value proposition for an entrepreneurial venture.
3. Create high quality marketing plans for a new venture.
4. Evaluate and analyze the challenges of self-employment in the personal fitness training industry.

CORE COURSES

	UNITS
KINE 2 Introduction to Athletic Training	4
PEAC WEI1 Introduction to Weight Training	0.5 - 2
ENTR 1 Introduction to Entrepreneurship	3
ENTR 20 Marketing for Entrepreneurs	3
BUS 50F Developing a Business Plan	1
KINE 15 Introduction to Personal Fitness Training	3

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS 14.5 - 16

REAL ESTATE ENTREPRENEUR

CERTIFICATE OF PROFICIENCY

The Real Estate Entrepreneurship program prepares students for success as realtors. The focus is on building the core real estate capabilities required for licensing supplemented with an entrepreneurship course to develop. All courses in this certificate are offered online.

PROGRAM-LEVEL OUTCOMES

1. Ability to prepare for the challenges of self-employment or business ownership in the real estate industry.
2. Prepare a basic business plan with a core value proposition for an entrepreneurial venture.
3. Students are prepared for the real estate licensing exam, and to be an effective realtor.

CORE COURSES

	UNITS
ENTR 1 Introduction to Entrepreneurship	3
REST 80 Real Estate Principles	3
REST 84 Real Estate Practice	3
Elective	3 - 4
BUS 50F Developing a Business Plan	1

Elective

Choose any one of the following:

	Units
BUS 7 Accounting for Small Business	3
BUS 10 Business Law	4
REST 81A Legal Aspects of Real Estate	3
REST 82A Real Estate Appraisal	3
REST 83 Real Estate Finance	3
REST 85 Real Estate Economics	3
REST 86 Escrows	3
REST 88 Real Estate Property Management	3
REST 89 Real Estate Office Administration	3

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS 13 - 14

INFORMATION TECHNOLOGY SUPPORT ENTREPRENEUR

CERTIFICATE OF ACHIEVEMENT

The IT Support Entrepreneurship program prepares students to start an IT Support business. The focus is on developing core IT skills and key business start-up skills.

BUS 50F Developing a Business Plan	1
ENTR 1 Introduction to Entrepreneurship	3
ENTR 20 Marketing for Entrepreneurs	3
ESYS 63A IT Essentials: PC Hardware and Software I	2
or	
CNT 83A IT Essentials: PC Hardware and Software I	2
ESYS 63B IT Essentials: PC Hardware and Software II	2
or	
CNT 83B IT Essentials: PC Hardware and Software II	2
CNT 62A Cisco Networking Academy CCNA 1&2	4
CNT 62B Cisco Networking Academy CCNA 3-4	4

TOTAL UNITS 19

ENTREPRENEURSHIP (ENTR)

1 INTRODUCTION TO ENTREPRENEURSHIP 3 UNITS

Introduction to the key concepts and skill requirements for new business creation. Evaluation of personal entrepreneurship skills. Emphasis on identifying viable business opportunities, and the process of planning for new venture start-up. 3 hours. Transfer: CSU.

5 THE ENTREPRENEURIAL MINDSET 3 UNITS

A study of social and business entrepreneurs throughout history and around the world. An exploration of the traits that enable entrepreneurs to thrive in vastly different cultures and eras, and the important contributions made by these innovators. 3 hours. Transfer: CSU; CSU/GE.



15 THE ELEVATOR PITCH

1 UNIT

An elevator pitch is a short summary used to quickly and simply define a person, profession, product, service, organization or event and its value proposition. This course will help you to define your pitch for a business idea and to support it with relevant market research and financial projections. 1 hour. Transfer: CSU.

16 MAKING THE PITCH

1 UNIT

An elevator pitch is a short summary used to quickly and simply define a person, profession, product, service, organization or event and its value proposition. This course will teach you how to identify the attributes of a value proposition; outline a presentation that articulates those values; orally present your value proposition in the form of a 2 minute elevator pitch. Prerequisite: ENTR 1 or ENTR 15 (each completed with a grade of "C" or higher). 1 hour. Transfer: CSU.

20 MARKETING FOR ENTREPRENEURS

3 UNITS

Marketing strategy and techniques for start-up and small businesses. Focus on low-cost, flexible, innovative marketing tools including social media and Internet marketing. 3 hours lecture. Transfer: CSU.

30 THE BUSINESS PLAN

3 UNITS

Development and presentation of a "ready to take to the bank for funding," realistic, and ready to implement business plan. Business plan components will include a business concept, industry and market analysis, a marketing and organizational plan, operations plan, funding plan, and financial projections. Prerequisite: Entrepreneurship 1 (completed with a grade of "C" or higher). 3 hours. Transfer: CSU.

40 BUSINESS INCUBATION AND LAUNCH

3 UNITS

The transition from a business plan to successful business launch. Key emphasis areas are development of plans for legal structure, accounting, financing/funding and implementation, as well as contingency planning. Prerequisite: Entrepreneurship 30. 1.3 hours lecture, 2 hours laboratory. Transfer: CSU.

ENVIRONMENTAL SCIENCE

(See Biological Sciences)

ENVIRONMENTAL STUDIES

DEGREE:

AA—ENVIRONMENTAL STUDIES

Chabot College offers an Associate in Arts Degree in Environmental Studies to provide students with a multidisciplinary overview of relationships between humans and the physical world. Contemporary environmental issues are examined from the vantage points of natural systems and ecology, human culture and cultural diversity, and modern political economy. The program enables the student to place emphasis on one of four approaches to the study of environment: the social/behavioral environment, social issues and ethics, environment and human health, or the physical/ecological environment.

ENVIRONMENTAL STUDIES

ASSOCIATE IN ARTS DEGREE

PROGRAM-LEVEL OUTCOMES

1. Create artistic concepts and themes in digital work.
2. Demonstrate strong craftsmanship (using industry standard software and technology) in creating digital work.

REQUIRED CORE (12 UNITS)

Both courses are required: (6 units)

		Units
GEOG 1	Introduction to Physical Geography	3
ANTH 1	Biological/Physical Anthropology	3

Choose one course from the following: (3 units)

ECN 1	Principles of Microeconomics	3
ECN 10	General Economics	3
POSC 20	Comparative Politics	3
POSC 30	International Relations	3

Choose one course from the following: (3 units)

GEOG 2	Cultural Geography	3
ANTH 3	Social and Cultural Anthropology	3
ANTH 7	Introduction to Global Studies: An Anthropological Perspective	3
SOCI 1	Principles of Sociology	3

Complete one area of emphasis below (9-12 units)

Emphasis 1: The Social/Behavioral Environment (9 units)

HIS 4 is required: (3 units)		
HIS 4	World History: 1500 to the Present	3

Choose one class from the following: (3 units)

PSY 1	General Psychology	3
PSY 1	General Psychology	3
ECD 62	Child, Family and Community	3
SOCI 2	Social Problems	3

**Choose one class from the following: (3 units)**

If core course taken was ECON 1 or ECON 10, choose one of the following:

POSC 20	Comparative Politics	3
POSC 30	International Relations	3

If core course taken was POSC 20 or POSC 30, choose one of the following:

ECN 1	Principles of Microeconomics	3
ECN 10	General Economics	3

Emphasis 2: Social Issues and Ethics (9 units)**Units****Choose one class from the following: (3 units)**

PHIL 60	Introduction to Philosophy: Ethics	3
BUS 42	Green Business Practices	3

Choose one class from the following (3 units)

SOCI 2	Social Problems	3
SOCI 4	Marriage and Family Relations	3
ADMJ 45	Law and Democracy	3
POSC 45	Law and Democracy	3
POSC 12	Introduction to California State and Local Government	3

Choose one class from the following (3 units)

PSCN 4	Multiethnic/Cultural Communication	3
PSCN 13	Multicultural Issues in Contemporary America	3
COMM 11	Intercultural Communication	3

Emphasis 3: Environment and Human Health (9-10 units)**Two courses required: (7 units)****Units**

GEOG 10	Global Environmental Problems	3
	or	
GEOG 13	Climate Studies	3
	and	
ENSC 11	Humans and the Environment with Laboratory	4

Choose one class from the following: (2-3 units)

PSY 25	Stress Management and Health Psychology	2
NUTR 1	The Science of Nutrition	3
ECD 54	Child Health, Safety and Nutrition	3

Emphasis 4: The Physical/Ecological Environment (11-12 units)**One course required: (3 units)****Units**

GEOG 10	Global Environmental Problems	3
	or	
GEOG 13	Climate Studies	3

Choose one course from the following: (4 units)

ENSC 11	Humans and the Environment with Laboratory	4
BIOL 10	Introduction to the Science of Biology	4
BIOL 4	Principles of Animal Biology and Evolution	4
BIOL 6	Principles of Plant Biology and Ecology	4

Choose one from the following: (4-5 units)

CHEM 10	Introduction to Chemistry	4
CHEM 31	Introduction to College Chemistry	4
CHEM 1A	General College Chemistry I	5

GENERAL EDUCATION COURSES

For specific A.A. General Education courses refer to catalog section on Graduation Requirements.

TOTAL UNITS**21 - 24****ETHNIC STUDIES (ES)****DEGREE:**

AA—ETHNIC STUDIES

The Ethnic Studies Program, interdisciplinary in scope, will begin with a focus on the history, literature and cultures of African-Americans, Asian/Pacific Islander-Americans, Chicano-Latinos, Native Americans and Middle Eastern Americans.

ETHNIC STUDIES

ASSOCIATE IN ARTS DEGREE

PROGRAM-LEVEL OUTCOMES

1. Demonstrate knowledge of diverse racial/ethnic groups and their cultures.
2. Understanding how major institutions, such as family, media, education, and government influence the experiences and opportunities of racial/ethnic groups.

CORE COURSES**UNITS**

ES 1	Introduction to Ethnic Studies	3
ANTH 5	Cultures of the U.S. in Global Perspective	3
	or	
SOCI 3	Introduction to Race and Ethnic Relations	3

Select 15 units from the following. At least three different racial or ethnic groups must be studied.**Units**

ANTH 8	Native American Cultures	3
ENGL 21	The Evolution of the Black Writer	3
ENGL 22	Mexican American/Latino Literature of the U.S.	3
ES 2	Contemporary Ethnic Minority Families in the U.S.	3
ES 3	Introduction to Muslim-American Studies	3
HIS 20	The African-American Experience in U.S. History Through Reconstruction	3
HIS 21	The African-American Experience in U.S. History Since Reconstruction	3
HIS 22	Mexican American History and Culture	3
HIS 25	American Indian History and Culture	3
PSCN 4	Multiethnic/Cultural Communication	3
PSCN 13	Multicultural Issues in Contemporary America	3
SOCI 10	Introduction to Asian American Studies	3

GENERAL EDUCATION COURSES

For specific General Education courses refer to catalog section on A.A. Graduation Requirements

TOTAL UNITS**21**

ETHNIC STUDIES (ES)

1 INTRODUCTION TO ETHNIC STUDIES 3 UNITS

An introduction to the historical and socio-cultural experiences of racial and ethnic groups in the United States. Focus will be on key issues such as immigration, political stratification, employment discrimination, Americanization, class, racial and ethnic identity, and gender roles that have shaped relations in American society. Study is inter- and multi-disciplinary. A comparative approach covering African American, Mexican American, Asian American, Native American and Middle Eastern American. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

2 CONTEMPORARY ETHNIC MINORITY FAMILIES IN THE U.S. 3 UNITS

Examination of the diversity of contemporary United States ethnic minority families with an emphasis on comparison and contrast. Family dynamics and processes will be the primary focus within the context of ethnicity. Adaptation and responses to dominant group social constructs and social structures will also be examined. Groups to include: African American; Asian American; Mexican, Central and Latin American; Native American; Middle Eastern American. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

3 INTRODUCTION TO MUSLIM-AMERICAN STUDIES 3 UNITS

An examination of the diversity of Muslim communities in the United States with an emphasis on comparing and contrasting their histories, cultures and experiences. Topics include: patterns of migration; religious beliefs and practice; acculturation and assimilation; political involvement; education and employment; 9/11 and its aftermath; relations with the broader Muslim world. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

21 AFRICAN-AMERICAN HIST 20 CENT 3 UNITS

Survey of major themes and issues in of the history of the United States, focusing upon African Americans and the gendered racial, ethnic, and socioeconomic diversity within the nation. Emergence of the country from the Civil War and Reconstruction, tracing such themes as industrialization, immigration and migration, Progressivism, the nation at economic crisis and at war, the rise of social movements and the social and political backlash against them, and the evolving diversity of the nation. Analysis of the role of the local, state, and federal governments and the Constitution as institutions of both consistency and change. **May not receive credit if HIS 21 has been completed.** Transfer: CSU, UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).

22 MEXICAN AMERICAN HISTORY AND CULTURE 3 UNITS

A survey of Mexican American history from pre-Columbian period through the present. Special emphasis on Mexican Americans' role in the political, economic, social and geographic development in the United States. Major topics include European colonization, native cultures and slavery, the U. S. – Mexican War, World War I and World War II, industrialization, immigration and labor, and the Civil Rights Movement. This course includes analysis of the U. S. Constitution, Supreme Court Rulings, and California state and local government issues related to the rights of Mexican Americans. **May not receive credit if HIS 22 has been completed.** Transfer: CSU, UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).

25 AMERICAN INDIAN HISTORY AND CULTURE 3 UNITS

Historical survey of American Indians in the United States from earliest times to the present day. Emphasis on Indian societies and cultures, Indian relations with predominant cultures, Indian movement for self-preservation, and historical background necessary to understand contemporary problems of the Indians. Emphasis on the Indians of California and the West. **May not receive credit if HIS 25 has been completed.** Transfer: CSU, UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).





FILM (FILM)

9 FILM PRODUCTION COLLOQUIA 1 UNIT
 Explorations in CV film production and presentation. Analysis of skills acquired through production assistance including research, budgets, permits, clearances, releases, location scouting, film crewing, post-production, marketing, screenings, festivals, or some combination of these. 1 hour lecture, 1 hour TBA. Transfer: CSU.

14 FILM PRE-PRODUCTION 3 UNITS
 The pre-production process for film, as well as traditional and contemporary forms of visual media, including key participants and their job functions. Proposal pitches, log lines, script formats, and fundamentals of story, dialogue, and character development for pre-production planning. Examination of the roles and influence of audiences, clients, distributors, and studio executives on project financing and the script development phase. Strongly recommended: Eligibility for English 1A. 3 hours. Transfer: CSU.

50 BEGINNING FILM PRODUCTION 3 UNITS
 Introduction to the history and theory of filmmaking as an artistic medium through lectures, screenings, demonstrations, and hands-on practicum. Critical analysis and appreciation of production elements and development of skills in pre-production planning, digital cinematography, direction of actors, sound design, art direction, and post-production. 3 hours lecture, 1 hour activity. Transfer: CSU; UC; CSU/GE.

60 DOCUMENTARY FILM 3 UNITS
 Introduction to the historical development of documentary film and current techniques of documentary DV filmmaking. Story basics, research, structure, objective/subjective approach, simple shooting setups, interviewing, and rough-cut editing. Strongly Recommended: Film 50. 3 hours lecture, 1 hour activity. Transfer: CSU; UC; CSU/GE.

89 SPECIAL STUDIES IN FILM .5-5 UNITS
 Individual projects in Digital Video (DV) film production at the intermediate to advanced level. Development of knowledge and skills acquired in previous or current work with emphasis on current projects involving writing, producing, directing, cinematography, sound recording/sound design, lighting, art direction, production design, editing, or some combination of these. Prerequisites: Two of the following courses: Film 14, Film 50, Film 60 (completed with a grade of "B" or higher). 1.5-5 hours. Transfer: CSU.

FIRE TECHNOLOGY

DEGREE:
 AA—FIRE TECHNOLOGY
 AS—FIRE TECHNOLOGY
 AA—FIRE PREVENTION INSPECTOR
 AS—FIRE PREVENTION INSPECTOR

CERTIFICATE OF ACHIEVEMENT:
 FIRE TECHNOLOGY
 FIRE PREVENTION INSPECTOR

This two-year diploma program is designed for students who wish to pursue careers in fire protection, primarily for the inspection of industrial, commercial and institutional properties, environmental safety and accident prevention, and for people presently in those areas wishing to improve their academic and technical skills and abilities.

**FIRE TECHNOLOGY
 ASSOCIATE IN ARTS**

The Fire Technology program is based on the Uniform Fire Technology curriculum as approved by the State Board of Fire Services and the California Fire Chiefs Association. Successful completion of the program qualifies the pre-service student for State Firefighter-1 Certification. Classes are also offered for Fire Service Personnel leading to State Fire Officer Certification.

YEAR ONE		UNITS
FT 50 *	Fire Protection Organization	3
FT 51 *	Fire Services Operations	3
FT 52 *	Firefighter Safety and Survival	3
EMS 1	First Responder	2.5
PHED 2FSC	Fire Science Conditioning	1
FT 53	Fire Behavior and Combustion	3
FT 55	Fire Protection Equipment and Systems	3
EMS 2 *	Emergency Medical Technician - Basic	6.5
EMS 2W	Patient Stabilization, Extrication & Triage	0.5



YEAR TWO		UNITS
FT 54	Fire Prevention Technology	3
FT 56	Building Construction for Fire Protection	3
FT 89 *	Firefighter-1 Academy Introduction	0.5
FT 90A *	Firefighter-1 Certification Preparation I (Basic)	2
FT 90B *	Firefighter-1 Certification Preparation II (Intermediate)	2
FT 90C *	Firefighter-1 Certification Preparation III (Advanced)	2
FT 91A	CAL FIRE Wildland Firefighter Basic Training	3
FT 91B	Hazardous Materials First Responder – Operational Level	1.5
FT 91C	I-200 Basic ICS (Incident Command System)	1.5
FT 91D	Firefighter Survival	0.5

GENERAL EDUCATION COURSES FOR THE A.A. DEGREE

For specific General Education courses refer to catalog section on A.A. Graduation requirements.

Students pursuing the Associate Degree, who are currently employed by a Fire Department in the rank of Firefighter or higher, may have the following classes waived with proof of equivalent or higher certification: Fire Technology 89, 90A, 90B, 90C, 91A, 91B, 91C and Health 61, 81, 83. These students may opt for an alternate Physical Education course in lieu of the PE2FSC (Fire Science Conditioning) course.

TOTAL UNITS **44.5**

*Fire Technology 50, 51, 52 and Health 81 must be completed with a "C" or higher grade before acceptance to the Firefighter-I Academy (Fire Technology 89, 90A, 90B, 90C). A current EMT certificate will be accepted in lieu of Health 81. Fire Technology 89 must be completed with P before student may register for 90A, 90B, 90C.

FIRE TECHNOLOGY

ASSOCIATE IN SCIENCE DEGREE

The Fire Technology program is based on the Uniform Fire Technology curriculum as approved by the State Board of Fire Services and the California Fire Chiefs Association. Successful completion of the program qualifies the pre-service student for State Firefighter-1 Certification. Classes are also offered for Fire Service Personnel leading to State Fire Officer Certification.

YEAR ONE		UNITS
FT 50 *	Fire Protection Organization	3
FT 51 *	Fire Services Operations	3
FT 52 *	Firefighter Safety and Survival	3
EMS 1	First Responder	2.5
PHED 2FSC	Fire Science Conditioning	1
FT 53	Fire Behavior and Combustion	3
FT 55	Fire Protection Equipment and Systems	3
EMS 2 *	Emergency Medical Technician - Basic	6.5
EMS 2W	Patient Stabilization, Extrication & Triage	0.5

YEAR TWO		UNITS
FT 54	Fire Prevention Technology	3
FT 56	Building Construction for Fire Protection	3
FT 89 *	Firefighter-1 Academy Introduction	0.5
FT 90A *	Firefighter-1 Certification Preparation I (Basic)	2
FT 90B *	Firefighter-1 Certification Preparation II (Intermediate)	2
FT 90C *	Firefighter-1 Certification Preparation III (Advanced)	2
FT 91A	CAL FIRE Wildland Firefighter Basic Training	3
FT 91B	Hazardous Materials First Responder – Operational Level	1.5
FT 91C	I-200 Basic ICS (Incident Command System)	1.5
FT 91D	Firefighter Survival	0.5

General Education Courses for the A.S. Degree

For specific A.S. General Education courses refer to catalog section on A.S. Graduation Requirements.

REQUIRED FOR MAJOR SPECIFIC G.E. REQUIREMENT. Complete a minimum of 3 units from: Units

ENGL 70 Report Writing 3

Students pursuing the Associate Degree, who are currently employed by a Fire Department in the rank of Firefighter or higher, may have the following classes waived with proof of equivalent or higher certification: Fire Technology 89, 90A, 90B, 90C, 91A, 91B, 91C and Health 61, 81, 83. These students may opt for an alternate Physical Education course in lieu of the PE2FSC (Fire Science Conditioning) course.

TOTAL UNITS **44.5**

*Fire Technology 50, 51, 52 and Health 81 must be completed with a "C" or higher grade before acceptance to the Firefighter-I Academy (Fire Technology 89, 90A, 90B, 90C). A current EMT certificate will be accepted in lieu of Health 81. Fire Technology 89 must be completed with P before student may register for 90A, 90B, 90C.

FIRE PREVENTION INSPECTOR

ASSOCIATE IN ARTS

The Fire Prevention Inspector program is also based on the Uniform Fire Technology curriculum and offers general courses in applied physics and chemistry, as well as specialized courses in fire prevention, public safety, building construction and fire protection system design.

YEAR ONE		UNITS
FT 50	Fire Protection Organization	3
FT 54	Fire Prevention Technology	3
FT 52	Firefighter Safety and Survival	3
FT 55	Fire Protection Equipment and Systems	3



YEARTWO		UNITS
FT 53	Fire Behavior and Combustion	3
FT 56	Building Construction for Fire Protection	3
INDT 74	Measurements and Calculations	3
BUS 22	Introduction to Management	3

GENERAL EDUCATION COURSES FOR THE A.A. DEGREE

For specific General Education courses refer to catalog section on A. A. Graduation requirements.

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS	24
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FIRE PREVENTION INSPECTOR
ASSOCIATE IN SCIENCE DEGREE

The Fire Prevention Inspector program is also based on the Uniform Fire Technology curriculum and offers general courses in applied physics and chemistry, as well as specialized courses in fire prevention, public safety, building construction and fire protection system design.

YEAR ONE		UNITS
FT 50	Fire Protection Organization	3
FT 54	Fire Prevention Technology	3
FT 52	Firefighter Safety and Survival	3
FT 55	Fire Protection Equipment and Systems	3

YEARTWO		UNITS
FT 53	Fire Behavior and Combustion	3
FT 56	Building Construction for Fire Protection	3
INDT 74	Measurements and Calculations	3
BUS 22	Introduction to Management	3

General Education Units for A.S. Degree

For specific A.S. General Education courses refer to catalog section on A.S. Graduation Requirements.

REQUIRED FOR MAJOR SPECIFIC G.E.REQUIREMENT. Complete a minimum of 3 units from: Units

ENGL 70	Report Writing	3
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The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS	24
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FIRE TECHNOLOGY
CERTIFICATE OF ACHIEVEMENT

YEAR ONE		UNITS
FT 50 *	Fire Protection Organization	3
FT 51 *	Fire Services Operations	3
FT 52 *	Firefighter Safety and Survival	3
EMS 1	First Responder	2.5
PHED 2FSC	Fire Science Conditioning	1
FT 53	Fire Behavior and Combustion	3
FT 55	Fire Protection Equipment and Systems	3
EMS 2 *	Emergency Medical Technician - Basic	6.5
EMS 2W	Patient Stabilization, Extrication & Triage	0.5

YEARTWO		UNITS
FT 54	Fire Prevention Technology	3
FT 56	Building Construction for Fire Protection	3
FT 89 *	Firefighter-1 Academy Introduction	0.5
FT 90A *	Firefighter-1 Certification Preparation I (Basic)	2
FT 90B *	Firefighter-1 Certification Preparation II (Intermediate)	2
FT 90C *	Firefighter-1 Certification Preparation III (Advanced)	2
FT 91A	CAL FIRE Wildland Firefighter Basic Training	3
FT 91B	Hazardous Materials First Responder – Operational Level	1.5
FT 91C	I-200 Basic ICS (Incident Command System)	1.5
FT 91D	Firefighter Survival	0.5

Students pursuing the Associate Degree, who are currently employed by a Fire Department in the rank of Firefighter or higher, may have the following classes waived with proof of equivalent or higher certification: Fire Technology 89, 90A, 90B, 90C, 91A, 91B, 91C, EMS 1, 2, and 2W. These students may opt for an alternate Physical Education course in lieu of the PE2FSC (Fire Science Conditioning) course.

TOTAL UNITS	44.5
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*Fire Technology 50, 51, 52 and EMS 2 must be completed with a "C" or higher grade before acceptance to the Firefighter-I Academy (Fire Technology 89,90A,90B,90C). A current EMT certificate will be accepted in lieu of EMS 2 and 2W. Fire Technology 89 must be completed with P before student may register for 90A, 90B, 90C.

FIRE PREVENTION INSPECTOR
CERTIFICATE OF ACHIEVEMENT

YEAR ONE		UNITS
FT 50	Fire Protection Organization	3
FT 54	Fire Prevention Technology	3
FT 52	Firefighter Safety and Survival	3
FT 55	Fire Protection Equipment and Systems	3



YEAR TWO		UNITS
FT 53	Fire Behavior and Combustion	3
FT 56	Building Construction for Fire Protection	3
INDT 74	Measurements and Calculations	3
BUS 22	Introduction to Management	3

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS **24**

FIRE TECHNOLOGY (FT)

Fire Technology courses may be scheduled alternating years. Students may be required to take day and evening classes to complete the degree.

7 HEALTH AND FITNESS FOR THE FIRE SERVICE 3 UNITS

Health, wellness and physical fitness are examined from a global and occupational viewpoint. Emphasis on the Seven Dimensions of Wellness from a Fire Service perspective. An introduction to concepts of lifetime fitness and wellness with an emphasis on physical fitness and lifestyle choices. May not receive credit if KINE 24 has been completed. Transfer: CSU.

50 FIRE PROTECTION ORGANIZATION 3 UNITS

Introduction to fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems, introduction to fire strategy and tactics. Strongly recommended: eligibility for English A. 3 hours lecture, plus a total of 12 hours laboratory for the semester. Transfer: CSU.

51 FIRE SERVICE OPERATIONS 3 UNITS

Fundamentals of fire department organization, management and resources; fire company organization; resources to control various emergencies; multi-agency coordinating systems; support and regulatory agencies; strategy and tactics applied to structural fire fighting; wildland fire fighting and hazardous material emergencies; and safety conditions to be considered. 3 hours lecture, plus a total of 6 hours laboratory for the semester. Transfer: CSU.

52 FIREFIGHTER SAFETY AND SURVIVAL 3 UNITS

Basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services; assessing fire dangers and handling common fire situations; risk abatement and personal preparation for unforeseen fire emergencies; roles and responsibilities in educating the public on fire safety; development of a survival attitude using problem-solving techniques for increased situational awareness and self-reliance in an emergency. 3 hours lecture plus a total of 12 hours laboratory for the semester. Transfer: CSU.

53 FIRE BEHAVIOR AND COMBUSTION 3 UNITS

Theory and fundamentals of why 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. 3 hours. Transfer: CSU.

54 FIRE PREVENTION TECHNOLOGY 3 UNITS

Provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationship of fire prevention with built-in fire protection systems, fire investigation and fire safety education. Provides skills necessary for California Fire Service Training and Education System, Certified Firefighter I and Fire Inspector I. 3 hours. Transfer: CSU.

55 FIRE PROTECTION EQUIPMENT AND SYSTEMS 3 UNITS

Features of design and operation of fire alarm systems, smoke detection systems, water-based fire suppression systems, special hazard fire suppression systems; means and adequacy of required exiting systems; installation and maintenance of automatic, manual, and other private fire-extinguishing equipment, heat and smoke control systems; water supply for fire protection and portable fire extinguishers. 3 hours. Transfer: CSU.

56 BUILDING CONSTRUCTION FOR FIRE PROTECTION 3 UNITS

Components of building construction that relate to firefighter and life safety. Elements of construction and design of structures as key factors when inspecting buildings, preplanning fire operations, and operating at fires/collapse emergencies. The development and evolution of building and fire codes in relationship to past fires/collapses in residential, commercial, and industrial occupancies. 3 hours. Transfer: CSU.



71A FIRE COMMAND 1A: COMMAND OPERATIONS FOR THE COMPANY OFFICER 2 UNITS

Provides first-in incident commander and fire company officers with an introduction to the principles of command; overview of the concept of command safety and the risk management process; pre-incident planning considerations; command considerations at structure fire incidents; company officer initial actions at an incident including the development of incident priorities, strategy, and tactics; information on the roles and responsibilities of a company officer for post-incident actions; and the opportunity to gain experience in a controlled environment through structure fire incident simulations. Satisfies part of the California Office of State Fire Marshal Certification Training Standards for Company Officer. Prerequisite: Fire Technology 91C or successful completion of I-200 (Basic Incident Command System). 30 total hours lecture, 10 total hours laboratory. Transfer: CSU.

71B FIRE COMMAND 1B: ALL-RISK COMMAND OPERATIONS FOR THE COMPANY OFFICER 2 UNITS

Provides first-in incident commander and fire company officers with an overview of considerations specific to incidents where the Incident Command System (ICS) may be used to manage a first alarm structure fire, multiple casualties, hazardous materials, and urban search and rescue (USAR); and the opportunity to gain experience in a controlled environment through incident simulations. Satisfies part of the California Office of State Fire Marshal Certification Training Standards for Company Officer. Prerequisites: Fire Technology 71A, or successful completion of Fire Command 1A (Command Operations for the Company Officer), and Fire Technology 91C, or successful completion of I-200 (Basic Incident Command System). 30 total hours lecture, 10 total hours laboratory. Transfer: CSU.

72 FIRE MANAGEMENT I: MANAGEMENT FOR THE COMPANY OFFICER 2 UNITS

Prepares or enhances the first line supervisor's ability to supervise subordinates; introduces key management concepts and practices utilized, and includes discussions about decision-making, time management, leadership styles, personnel evaluations, and counseling guidelines. Satisfies part of the California Office of State Fire Marshal Certification Training Standards for Company Officer. 30 total hours lecture, 10 total hours laboratory. Transfer: CSU.

73A FIRE PREVENTION 1A: INTRODUCTION TO THE CALIFORNIA FIRE CODE BRIDGE (2009) 2 UNITS

Provides a broad, technical overview of fire prevention codes and ordinances, inspection practices, and key hazards. Satisfies part of the California Office of State Fire Marshal Certification Training Standards for Fire Officer, Fire Prevention Officer, and Public Education Officer I. 30 total hours lecture, 10 total hours laboratory. Transfer: CSU.

73B FIRE PREVENTION 1B: INSPECTION OF FIRE PROTECTION SYSTEMS AND SPECIAL HAZARDS BRIDGE (2009) 2 UNITS

Provides fire prevention professionals with the base level knowledge necessary to inspect fire protection systems and special hazards. Satisfies part of the California Office of State Fire Marshal Certification Training Standards for Fire Officer, Fire Prevention Officer, and Public Education Officer I. Prerequisite: Fire Technology 73A, or successful completion of Fire Prevention 1A (Introduction to the California Fire Code). 30 total hours lecture, 10 total hours laboratory. Transfer: CSU.

74A FIRE INVESTIGATION 1A: FIRE ORIGIN AND CAUSE DETERMINATION 2 UNITS

Provides firefighters, fire investigators and law enforcement officers assigned to a fire investigation with an introduction and basic overview of fire scene investigation; focus of the course is on fire scene indicators and to determine the fire's origin. Satisfies part of the California Office of State Fire Marshal Certification Training Standards for Company Officer. 30 total hours lecture, 10 total hours laboratory. Transfer: CSU.

76A TRAINING INSTRUCTOR 1A: COGNITIVE LESSON DELIVERY 2 UNITS

Provides company officers, state fire training registered instructors and training officers with methods and techniques for training in accordance with the latest concepts in career education; selecting, adapting, organizing, and using instructional materials appropriate for teaching cognitive lessons; criteria and methods to evaluate teaching and learning efficiency; and an opportunity to apply major principles of learning or teaching demonstrations. Two (2) student instructor teaching demonstrations are required of all. Satisfies part of the California Office of State Fire Marshal Certification Training Standards for Company Officer and Training Officer. 30 total hours lecture, 10 total hours laboratory. Transfer: CSU.

76B TRAINING INSTRUCTOR 1B: PSYCHOMOTOR LESSON DELIVERY 2 UNITS

Provides company officers, state fire training registered instructors and training officers with methods and techniques for training in accordance with the latest concepts in career education; selecting, adapting, organizing, and using instructional materials appropriate for teaching psychomotor lessons; criteria and methods to evaluate teaching and learning efficiency; and an opportunity to apply major principles of learning or teaching demonstrations. Two (2) student instructor teaching demonstrations are required of all. Satisfies part of the California Office of State Fire Marshal Certification Training Standards for Company Officer and Training Officer. Prerequisite: Fire Technology 76A, or successful completion of Training Instructor 1A (Cognitive Lesson Delivery). 24 total hours lecture, 16 total hours laboratory. Transfer: CSU.

**88A INTRODUCTION TO FIRE FITNESS TRAINING 1 UNIT**

This course is designed to prepare the Fire Technology student for the physical rigors of FT89 and the Chabot Fire Academy. Course sessions will address aspects of physical training, ladder and hydrant operations and knots utilized in the Fire Service. May not receive credit if PEAC FFT has been completed. 3 hours laboratory. Transfer: UC; CSU. (UC credit/unit limitations may apply).

88B INTERMEDIATE FIRE FITNESS TRAINING 1 UNIT

This course is designed to further the physical fitness and vocational skills of the fire technology student. Course sessions will consist of physical training and continuing fire service skills development. May not receive credit if PEAC FFT1 has been completed. Prerequisite: FT 88A or PEAC FFT (each completed with a grade of "C" or higher.) 3 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limitations may apply).

88C ADVANCED FIRE FITNESS TRAINING 1 UNIT

Designed to increase the skill and fitness levels developed in FFT 2 or FT 88B, intermediate fire fitness training. May not receive credit if PEAC FFT 2 has been completed. Prerequisite: FT 88B or PEAC FFT1 (each completed with a grade of "C" or higher.) 3 hours laboratory. Transfer: UC; CSU. (UC credit/unit limitations may apply).

88D TACTICAL FIRE FITNESS TRAINING 1 UNIT

This course is designed to maximize the physical fitness and vocational skills development of the Fire Technology student. May not receive credit if PEAC FFT 3 has been completed. Prerequisite: FT 88C or PEAC FFT2 (each completed with a grade of "C" or higher) 3 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limitations may apply).

89 FIREFIGHTER—1 ACADEMY INTRODUCTION .5 UNIT

Orientation and evaluation of the necessary knowledge, skills, and abilities to succeed in the Firefighter 1 Academy (Fire Technology 90A, 90B and 90C). Physical fitness and hand-eye coordination skills evaluation. Proof of a current Candidate Physical Ability Test (CPAT) certificate (no older than six months from the first day of this class) may allow the candidate to waive certain physical ability evaluations. Prerequisites: Fire Technology 50, 51, 52; Physical Education 2FSC or equivalent firefighter physical conditioning training; (or proof of enrollment in an EMT program at another institution. (All courses completed with a grade of "C" or higher). Strongly recommended: Mathematics 65 and eligibility for English 1A. 4 hours total lecture, 12 hours total laboratory.

90A FIREFIGHTER—1 CERTIFICATION PREPARATION I (BASIC) 2 UNITS

Development of individual skills and basic knowledge necessary to perform the functions of a firefighter. Practice in donning breathing apparatus, knot tying, placing ladders, pulling hose, making water supply connections and using the incident command system. Students will be required to pass a physical examination by a licensed medical professional and provide the Fire Academy Physical Verification forms and proof of current completion of an Emergency Medical Technician program by the first class meeting. Prerequisites: Fire Technology 50, 51, 52 and 89; Physical Education 2FSC or equivalent firefighter physical conditioning training. (All courses completed with a grade of "C" or higher; Fire Technology 89 completed with P before student may register for 90A.) 24 total hours lecture, 40 total hours laboratory. Transfer: CSU.

90B FIREFIGHTER—1 CERTIFICATION PREPARATION II (INTERMEDIATE) 2 UNITS

Continuation of skills and basic knowledge necessary to perform the functions of a firefighter, engineer and captain within a fire attack team. Practice in donning breathing apparatus, knot tying, placing ladders, pulling hose, making water supply connections and using the incident command system. Prerequisite: Fire Technology 90A (completed with a grade of "C" or higher). 24 total hours lecture, 40 total hours laboratory. Transfer: CSU.

90C FIREFIGHTER—1 CERTIFICATION PREPARATION III (ADVANCED) 2 UNITS

Continuation of skills and basic knowledge necessary to perform the functions of a fire attack team, in multiple company exercises, which include: hose and ladder evolutions; salvage and overhaul techniques; fire attack, control and extinguishment techniques for various situations. Firefighter-1 Graduation Certificate awarded upon successful completion. Students with six months paid experience or 12 months volunteer/work experience may apply for the State Certificate, with proof of current completion of a valid Emergency Medical Technician Program. Prerequisite: Fire Technology 90B (completed with a grade of "C" or higher). 24 total hours lecture, 40 total hours laboratory. Transfer: CSU.

**91A CAL FIRE WILDLAND FIREFIGHTER
BASIC TRAINING**
3 UNITS

Provides a basic wildland firefighter course oriented toward entry-level employment opportunities within agencies responsible for wildland fire mitigation and interface I-Zone protection, with emphasis on the equipment utilized on California Department of Forestry and Fire Protection (CAL FIRE) engines. The course is structured with a maximum emphasis on demonstration, student application and performance examinations. Fundamentals of wildland fire control and techniques of controlling other emergency incidents are covered with a strong safety perspective. A live fire exercise is provided for application of fire control and suppression techniques. Provides S130 and S190 equivalency under National Wildfire Coordinating Group (NWCG), IS-700.a under the Emergency Management Institute, and CAL FIRE Wildland Firefighter Basic Training certification requirements. Course complies with the State Board of Fire Services Wildland Fire Fighting requirements for Firefighter I Certification. Prerequisite: current enrollment in, or successful completion of either Fire Technology 90C (completed with a grade of "C" or higher) or a California Accredited Fire Fighter 1 Academy. 2.25 hours lecture, 1.75 hours laboratory. Transfer: CSU.

**91B HAZARDOUS MATERIALS
FIRST RESPONDER—OPERATIONAL LEVEL**
1.5 UNITS

Hazard recognition and identification; incident response safety procedures; response to hazardous materials emergencies, emphasis on skills and knowledge necessary to protect lives, property, and the environment. Defensive tactics to contain the release from a safe distance and keep it from spreading, and to prevent exposures without trying to stop the release. Meets and exceeds the requirements of CFR 29 1910.120 and CCR Title 8. Course complies with the State Board of Fire Services requirements for Firefighter 1 certification (1999). 1.5 hours. Transfer: CSU.

**91C 1-200 BASIC ICS
(INCIDENT COMMAND SYSTEM)**
1.5 UNITS

Consists of modules 2 through 6 and meets the training needs of wildland fire personnel by introducing principles associated with the Incident Command System (ICS). Topics include: Organization, facilities, resource terminology, and the common responsibilities associated with incident or even assignments. Course complies with the State Board of Fire Services requirements for Firefighter-1 Certification (1999). 1.5 hours. Transfer: CSU.

91D FIREFIGHTER SURVIVAL
.5 UNIT

Orientation to causes of firefighter injuries and fatalities and how to avoid committing fatal errors on the fireground using problem-solving techniques for developing self-reliance in an emergency. Physical techniques emphasized for performing critical individual and team rescue skills to access, extricate and remove trapped or downed firefighters. Prerequisite: current enrollment in, or successful completion of either Fire Technology 90C (completed with a grade of "C" or higher) or a California Accredited Fire Fighter 1 Academy. 4 total hours lecture, 12 total hours laboratory.

95 WORK EXPERIENCE
1-3 UNITS

College-supervised on-the-job training while working in a fire service related occupation. Student Firefighters will need to provide proof of current EMT-Basic or Paramedic license, as well as current CPR certification and medical vaccinations before riding along with host fire agencies. Student Firefighter Prerequisite: Completion of an Accredited California Firefighter 1 Academy. Student Fire Inspector Prerequisite: Completion of Certificate of Achievement Program for Fire Prevention Inspector. Corequisite: Fire Technology 96. 5-15 hours. Transfer: CSU.

96 WORK EXPERIENCE SEMINARS
1 UNIT

Focal point for the coordination of the curriculum with college-supervised part-time or full-time employment or volunteer work in the fire service field. Case studies, job-related problems, student cases and presentations, and material related to employment, organization, and management; emphasis on building strong working relationships with supervisors, subordinates, and coworkers. Student Firefighters will need to provide proof of current EMT-Basic or Paramedic license, as well as current CPR certification and medical vaccinations before riding along with host fire agencies. Student Firefighter Prerequisite: Completion of an Accredited California Firefighter 1 Academy. Student Fire Inspector Prerequisite: Completion of Certificate of Achievement Program for Fire Prevention Inspector. Corequisite: Fire Technology 95. 1 hour. Transfer: CSU.





FRENCH (FRNC)

DEGREE

AA - FRENCH

This program consists of four semesters of thorough linguistic and cultural training in French. French is one of the world's most influential languages and there are opportunities for working in many industries where knowledge of French is considered valuable. Many majors at four-year universities have foreign language requirements that would be satisfied with the language courses in this degree program. Courses offered in this program meet general education and transfer requirements.

FRENCH ASSOCIATE IN ARTS

This program consists of four semesters of thorough linguistic and cultural training in French. French is one of the world's most influential languages and there are opportunities for working in many industries where knowledge of French is considered valuable. Many majors at four year universities have foreign language requirements that would be satisfied with the language courses in this degree program. Courses offered in this program meet general education and transfer requirements.

PROGRAM-LEVEL OUTCOMES

1. Demonstrate proficiency in understanding and using, orally, the grammatical structures presented and vocabulary assigned.
2. Demonstrate proficiency in understanding and using, in writing, the grammatical structures presented and vocabulary assigned.

YEAR ONE		UNITS
FRNC 1A	Beginning French or	5
FRNC 1A1	Beginning French 1 and	3
FRNC 1A2	Beginning French 2 and	3
FRNC 1B	Elementary French or	5
FRNC 1B1	Elementary French 1 and	3
FRNC 1B2	Elementary French 2	3
YEAR TWO		UNITS
FRNC 2A	Intermediate French	4
FRNC 2B	Advanced French	4

GENERAL EDUCATION COURSES

For specific General Education courses refer to catalog section on A.A. Graduation Requirements.

TOTAL UNITS 18 - 20

FRENCH (FRNC)

1A BEGINNING FRENCH

5 UNITS

Introduction to the French-speaking cultures of the world featuring the study and practice of the four language skills (listening, speaking, reading, and writing) of French. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Strongly Recommended: Eligibility for ENGL 1A. May not receive credit if FRNC 1A1 and/or 1A2 have been completed. 5 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limitations may apply).

1B ELEMENTARY FRENCH

5 UNITS

Further study of French-speaking cultures of the world featuring the acquisition of the four language skills (listening, speaking, reading, and writing) of French begun in French 1A. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: FRNC 1A (completed with a grade of "C" or higher) or FRNC 1A2 with a grade of "C" or higher. May not receive credit if FRNC 1B1 and/or 1B2 have been completed. 5 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).

1A1 BEGINNING FRENCH 1

3 UNITS

Introduction to the French-speaking cultures of the world featuring the study and practice of the four language skills (listening, speaking, reading, and writing) of French. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. May not receive credit if FRNC 1A has been completed. Strongly Recommended: Eligibility for ENGL 1A. 3 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limitations may apply).

1A2 BEGINNING FRENCH 2

3 UNITS

Further study of the French-speaking cultures of the world featuring the study and practice of the four language skills (listening, speaking, reading, and writing) of French. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: FRNC 1A1 (completed with a grade of "C" or higher). May not receive credit if FRNC 1A has been completed. 3 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limitations may apply).

1B1 ELEMENTARY FRENCH 1

3 UNITS

Further study of French-speaking cultures of the world featuring the acquisition of the four language skills (listening, speaking, reading, and writing) of French begun in French 1A2. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. May not receive credit if FRNC 1B has been completed. Prerequisite: FRNC 1A (completed with a grade of "C" or higher) or, FRNC 1A2 (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limitations may apply).

**1B2 ELEMENTARY FRENCH 2****3 UNITS**

Continue study of French-speaking cultures of the world featuring the acquisition of the four language skills (listening, speaking, reading, and writing) of French begun in French 1B1. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. May not receive credit if FRNC 1B has been completed. Prerequisite: FRNC 1B1 (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).

2A INTERMEDIATE FRENCH**5 UNITS**

Review of grammar; reading of works of modern authors; practice in conversation and composition. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: FRNC 1B (completed with a grade of "C" or higher) or, FRNC 1B2 (completed with a grade of "C" or higher). 4 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; IGETC.

2B ADVANCED FRENCH**5 UNITS**

Reading of Francophone authors; advanced review of grammar; emphasis on speaking and composition. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: FRNC 2A (completed with a grade of "C" or higher) 4 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; IGETC.

50A FRENCH CONVERSATION AND CULTURE I 3 UNITS

Development of a basic understanding of spoken French through pronunciation, vocabulary, and applied grammar. Introduction to the everyday culture of Francophone people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. 3 hours lecture, 1 hour laboratory. Transfer: CSU.

50B FRENCH CONVERSATION AND CULTURE II 3 UNITS

Development of skills learned in French 50A. Understanding of spoken French through pronunciation, vocabulary, and applied grammar. Further study of the life and culture of the Francophone people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: French 50A (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

50C FRENCH CONVERSATION AND CULTURE III 3 UNITS

Development of skills learned in French 50B. Understanding of spoken French through pronunciation, vocabulary, and applied grammar. Further study of the culture and everyday life activities of the Francophone people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: French 50B (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

50D FRENCH CONVERSATION AND CULTURE IV 3 UNITS

Development of skills learned in French 50C. Understanding of spoken French through pronunciation, vocabulary, and applied grammar. Further study of the culture and everyday life activities of the Francophone people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: French 50C (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

GENERAL STUDIES (GNST)**1 INTRODUCTION TO ONLINE LEARNING .5 UNIT**

Introduction to the Blackboard course management system used in online courses, and an overview of how online courses work. Review of strategies for success as an online student, including time management techniques. ½ hour. Transfer: CSU.

5A PASSION AND PURPOSE 2 UNITS

Exploration and discovery of personal passions in the context of social and family relationships, serving the wider community, and analyzing and understanding higher education – particularly at Chabot College. Focus on connection of passion to one's talents and potential purpose(s) in life. 1 hour lecture, 3 hours laboratory. Transfer: CSU

5B PASSION AND PURPOSE 2 UNITS

Further exploration and discovery of personal passions in the context of social and family relationships, serving the wider community, and analyzing and understanding higher education--particularly at Chabot College. Further investigation of the connection of passion to one's talents and potential purposes in life. Completion of capstone community-based or college-based initiative that grows out of one's passions explored in GNST 5A. Prerequisite: GNST 5A (completed with a grade of "P" or higher). Transfer: CSU

10 FACULTY ASSISTANT EXPERIENCE FOR POTENTIAL TEACHERS 1-2 UNITS

Work as a faculty assistant to gain a variety of experiences related to teaching and learning tasks. May not assist in course sections in which enrolled. Prerequisite: consent of instructor and Office of Academic Services. 2.5-5 hours. Transfer: CSU.

31 WOMEN'S SPIRITUALITY: AN EXAMINATION OF ANCIENT AND EMERGING TRADITIONS 3 UNITS

A cross-cultural look at the women's spirituality movement in the U.S. and abroad. Examination of reformist aspects of this movement as they impact religions such as Christianity, Islam, Judaism, Buddhism and/or Hinduism. Also focus on the reclamation of pre-Christian and indigenous spiritual systems of Europe and the Americas. Explores text, ritual, music, and film. Strongly recommended: Eligibility for English 1A. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

**32A SOCIAL JUSTICE LEADERSHIP 2 UNITS**

Leadership practice in social justice values and methods. Students will organize, coordinate and plan advocacy events and activities to support Chabot College students, specifically the CIN program. Strongly Recommended: It is strongly recommended that students enrolled in this class have completed at least one course in Change It Now! Learning Community. Transfer: CSU, UC. (UC credit/unit limitations may apply)

32B SOCIAL JUSTICE LEADERSHIP INTERMEDIATE 2 UNITS

Further development of leadership practice in social justice values and methods. Students organize, coordinate and plan advocacy events and activities to support Chabot College students, specifically the CIN program. Prerequisite: GNST 32A (completed with a grade of "C" or higher). Transfer: CSU, UC. (UC credit/unit limitations may apply)

32C SOCIAL JUSTICE LEADERSHIP ADVANCED INTERMEDIATE 2 UNITS

Leadership practice in social justice values and methods. Students will organize, coordinate and plan advocacy events and activities to support Chabot College students, specifically the CIN program. Prerequisite: GNST 32B (completed with a grade of "C" or higher). Transfer: CSU, UC. (UC credit/unit limitations may apply)

32D SOCIAL JUSTICE LEADERSHIP ADVANCED 2 UNITS

Leadership practice in social justice values and methods. Hold events and meetings. Recruit and train new students. Practice reflective strategies for self-improvement. Prerequisite: GNST 32C (completed with a grade of "C" or higher). Transfer: CSU, UC (unit limits for UC)

51 STUDENT LEADERSHIP LABORATORY 1-2 UNITS

Training in the student leadership and governance with an emphasis on practical application of effective student leadership skills. Students will attend and participate in Associated Student Senate meetings, club, or shared governance meetings to receive credit for this course. May not receive credit if Political Science 51 has been completed. 3-6 hours laboratory. Transfer: CSU.

66 LIFE SKILLS FOR THE ADOLESCENT 3.5 UNITS

Educational Preparation for life for the young adult. Includes drug and alcohol education, nutrition education, disease prevention, college preparation, basic career goal setting, and risk factor reduction related to the prevention of obesity at an early age. Fitness component involves activity participation in team sports, along with basic fitness education in heart rate monitoring and physical fitness training. Designed for the adolescent learner interested in developing college preparatory skills and life-long learning strategies in the area of health and fitness. 27 total hours lecture, 108 total hours of laboratory. Total weeks = 5.

115 FACULTY-STUDENT TUTORIAL: WRITING AND READING ACROSS THE CURRICULUM .5-3 UNITS

(See also English 115)

Self-paced, individualized instruction in reading and writing effectiveness. Students may continue to take up to 3 units (maximum) of General Studies 115 and/or English 115 in subsequent terms. 2-6 hours.

116 GATEWAY TO SUCCESS PROGRAM— FACULTY-STUDENT TUTORIAL .5-3 UNITS

Self-paced instruction in effective reading, writing, and problem strategies in English, mathematics, and science. Tailored to individual student's needs and goals. Corequisite: enrollment in any Gateway to Success English, Mathematics, or Physics course. 2-6 hours.

GEOGRAPHY (GEOG)**DEGREE:**

AA-T—GEOGRAPHY

AA—GEOGRAPHY

CERTIFICATE OF PROFICIENCY:

GEOGRAPHIC INFORMATION SYSTEMS

GEOGRAPHY**ASSOCIATE IN ARTS FOR TRANSFER DEGREE**

Chabot College offers an Associate in Arts for Transfer degree in Geography to introduce students to principles, theory, and applied methods of spatial analysis in studying both the natural and human environment. The degree provides students with a foundation in the knowledge and skills of the Geography profession and prepares them for upper division university course work. Recipients of the Associate in Arts for Transfer degree are guaranteed admission with junior standing at a campus of the California State University system. The program in Geography is designed to develop the student's awareness of human-environment relationships and changes in the physical and cultural landscape induced by human activities.

CAREER OPPORTUNITIES IN GEOGRAPHY

Geography is an integrative discipline that offers a knowledge base appropriate for many diverse academic and professional career paths, including secondary school, college, and university teaching and research, environmental conservation, land use planning, global change research, marketing, and applications of remote sensing and geographic information systems technology.

**PROGRAM-LEVEL OUTCOMES**

1. Demonstrate knowledge of global physical and environmental processes, locations and develop an appreciation of landscapes.
2. Assemble and analyze spatial information (maps, data, surveys, qualitative observations, etc.), using traditional and modern mapping technology methods."

REQUIRED CORE

		UNITS
GEOG 1	Introduction to Physical Geography	3
GEOG 1L	Introduction to Physical Geography Laboratory	1
GEOG 2	Cultural Geography	3

LIST A (select 2 for 6 units)

		Units
GEOG 5	World Regional Geography	3
GEOG 8	Introduction to Weather and Climate	3
GEOG 12	Geography of California	3
GEOG 20	Introduction to Geographic Information Systems	3

LIST B (select 2 for 6-7 units)

Any courses not selected above (from List A), any CSU transferable Geography courses and/or other courses (in or outside the discipline) that are articulated as lower division major preparation for the Geography major at a CSU

		Units
ANTH 3	Social and Cultural Anthropology	3
GEOG 3	Economic Geography	3
GEOG 10	Global Environmental Problems	3
MTH 43	Introduction to Probability and Statistics	4
	or	
PSY 5	Introductory Statistics for the Behavioral and Social Sciences	4

Required Major Courses: 19-20 units

CSU GE or IGETC (CSU) requirements: 37-39 units

(Possible Double-counting: 13)

CSU transfer Electives as needed to reach 60 CSU transferable units

TOTAL UNITS: 60 units

TOTAL UNITS **19 - 20**

GEOGRAPHY

ASSOCIATE IN ARTS DEGREE

Chabot College offers an Associate in Arts Degree in Geography to introduce students to principles, theory, and applied methods of spatial analysis in studying both the natural and human environment. The program in Geography is designed to develop the student's awareness of human-environment relationships and changes in the landscape induced by human activities. Geographers pursue careers in many diverse fields, including environmental conservation, land use planning, global change research, teaching, and applications of geographic information systems.

CAREER OPPORTUNITIES IN GEOGRAPHY

Geography is an integrative discipline that offers a knowledge base appropriate for many diverse academic and professional career paths, including secondary school, college, and university teaching and research, environmental conservation, land use planning, global change research, marketing, and applications of remote sensing and geographic information systems technology.

PROGRAM-LEVEL OUTCOMES

1. Demonstrate knowledge of global physical and environmental processes, locations and develop an appreciation of landscapes.
2. Assemble and analyze spatial information (maps, data, surveys, qualitative observations, etc.), using traditional and modern mapping technology methods.

YEAR ONE

		UNITS
GEOG 1	Introduction to Physical Geography	3
GEOG 1L	Introduction to Physical Geography Laboratory	1
GEOG 5	World Regional Geography	3

YEAR TWO

		UNITS
GEOG 2	Cultural Geography	3
GEOG 8	Introduction to Weather and Climate	3
	or	
GEOG 13	Climate Studies	3
GEOG 20	Introduction to Geographic Information Systems	3
	Elective	3

Elective

		Units
Select from the following for an additional 3 units		
ANTH 3	Social and Cultural Anthropology	3
ECN 1	Principles of Microeconomics	3
GEOG 3	Economic Geography	3
GEOG 10	Global Environmental Problems	3
GEOG 12	Geography of California	3

GENERAL EDUCATION COURSES

For specific General Education courses refer to catalog section on A.A. Graduation Requirements

TOTAL UNITS **19**

GEOGRAPHIC INFORMATION SYSTEMS

CERTIFICATE OF PROFICIENCY

PROGRAM-LEVEL OUTCOMES

1. Identify significant spatial relationships and patterns in society including interactions between humans and their natural environment.
2. Demonstrate competency in techniques of spatial overlay of themes, design and production of map layouts, graphical presentation of spatially distributed data, and analysis of geocoded database information.

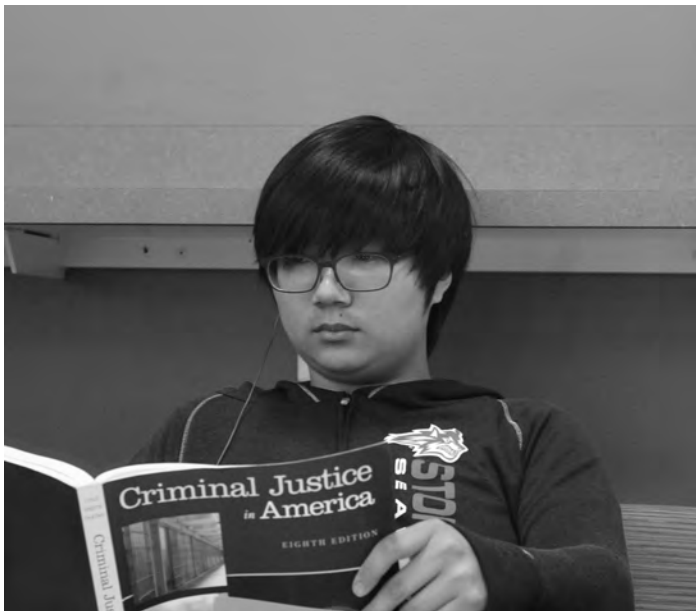
CORE COURSES**UNITS**

GEOG 1	Introduction to Physical Geography	3
GEOG 1L	Introduction to Physical Geography Laboratory	1
GEOG 20	Introduction to Geographic Information Systems	3
GEOG 21	Spatial Analysis with GIS	3
GEOG 22	Advanced GIS Applications	3
GEOG 95		1 - 3
	or	
WEXP 95	Work Experience	1 - 3
GEOG 96		1
	or	
WEXP 96	Work Experience Seminar	1

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS**15 - 17****GEOGRAPHY (GEOG)****1 INTRODUCTION TO PHYSICAL GEOGRAPHY 3 UNITS**

Earth's natural environments, with emphasis on spatial characteristics, change over time, interactions between environmental components, and human-environment interactions. Physical processes, techniques, and tools by which Earth's climates, soils, vegetation, water resources, and land forms are linked into integrated global patterns. Affect of natural environments on human activities and how humans modify environments. Field trips may be included. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: GEOG 110.

**1L INTRODUCTION TO PHYSICAL GEOGRAPHY 1 UNIT LABORATORY**

Application of the concepts, techniques, tools, and materials of physical geography. Practical exercises, experiments, observations, data analyses, and computer applications/simulations which augment understanding of geographic processes, interrelationships, spatial patterns and distributions. Use of maps, remotely-sensed imagery, and geographic information systems. Includes locational reference systems, time-space relationships, weather, climate, soils, vegetation, and landforms. Field trips/field projects may be included. Prerequisite: Geography 1 (may be taken concurrently). 3 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: GEOG 111.

2 CULTURAL GEOGRAPHY**3 UNITS**

Spatial analysis of human populations, their cultural traits, and activities. Emphasis on how diverse peoples, through their interactions and through their perceptions and use of the physical environment, create distinctive cultural landscapes. Social, political, and economic elements of geography which contribute to the evolution of these global and regional cultural patterns. Field trips may be included. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: GEOG 120.

3 ECONOMIC GEOGRAPHY**3 UNITS**

An introduction to the world's major economic systems; their spatial distribution and characteristics; their relative contributions to regional development and global change; and related movements of people, goods, and ideas. Techniques and tools of spatial analysis applied to human-environment interactions, with emphasis on ecological problems associated with specific economic activities. Field trips may be included. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

5 WORLD REGIONAL GEOGRAPHY**3 UNITS**

Regions of the world and the way humans live within those regions. Includes physical and cultural characteristics of world regions, how they are similar and how they are different, economic patterns, agriculture, industrial development and population dynamics. Emphasis on contemporary major issues and their geographic impact. May be offered in Distance Education delivery format. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: GEOG 125.

8 INTRODUCTION TO WEATHER AND CLIMATE 3 UNITS

Introduction to weather and climate and their impact on and modification by human activities. Emphasis on weather elements, events, and processes; climate controls; and the techniques, tools, and instruments of atmospheric science. Includes atmospheric optics, weather prediction, severe storms, air pollution, global/regional warming/cooling, ozone depletion, acid rain, El Niño, deforestation, desertification, and other topics related to everyday experience and global climate change. Field trips and observational activities may be included. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: GEOG 130.

10 GLOBAL ENVIRONMENTAL PROBLEMS 3 UNITS

Essential concepts of the interaction between human activities and the changing global environment, with emphasis on a multidisciplinary approach. Causes of environmental change, including ecosystem processes, the history of human population growth and demand for natural resources, fossil fuel consumption, land use change, and pollution sources. Economic and public policy issues pertaining to the sustainability of environments. Discussion of the dynamics of participation and leadership in promoting improved stewardship of the environment. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

12 GEOGRAPHY OF CALIFORNIA 3 UNITS

California's physical, cultural, and regional elements. The physical geographic base includes: location; geological evolution; geomorphic provinces, natural hazards, and resources; climate, water resources, vegetation, and soils. Historically developed cultural themes include: Native American and Hispanic origins; migration patterns and settlements; population growth and ethnic diversity; land use and economic activities; and Pacific Rim connections. Human-environment interactions and issues are considered throughout the course. Field trips may be included. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: GEOG 140.



13 CLIMATE STUDIES 3 UNITS

Climate Science is a rapidly evolving interdisciplinary field focused on the principles that govern climate, climate variability, and climate change with their implications for society. Elements of the climate system, atmospheric events and processes; factors controlling Earth's climate types, climate classification, and contemporary technological tools and instrumentation used in atmospheric science. Examination of the climate record, paleoclimates, and climate modeling and forecasting. Real-world investigations of climate change issues through observation, prediction, data analysis, and critical thinking. Emphasis on the influence of human activities on climate change, trends in global and regional climate change, and both the scientific basis and policy implications of air pollution, global warming, ozone depletion, acid rain, deforestation, and urbanization. The economic, social, and political environment that interacts with the everyday experience and potential threats of global climate change. Strongly Recommended: Eligibility for ENGL 1A. 3 hours lecture. Field trips and observational activities may be included. Transfer: IGETC; CSU; UC; CSU/GE.

19 GEOGRAPHIC INFORMATION SYSTEMS FOR THE SOCIAL SCIENCES 1 UNIT

An introduction to the techniques, theory, and practical experience necessary to acquire, convert, and create digital spatial data. Hands-on training in the acquisition of existing Geographic Information Systems (GIS) data, metadata, formatting and conversion of GIS data, utilization of remotely sensed data, and use of Global Positioning Systems (GPS). Computer-based information technology tools and techniques that analyze spatial relationships between locations and attributes of human activities and behaviors that occur over space. Emphasis is on visualization of geographic relationships to support decision-making in the social sciences. 3 hours laboratory. Transfer: CSU.

20 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS 3 UNITS

Computer-based information technology tools and techniques that analyze spatial relationships between locations and attributes of physical, cultural, and economic features. Visualization of geographic relationships to support decision-making through interactive linkages of maps, databases, images, and charts. Introduction to GIS theory, principles, concepts, applications, and operations. Field trips may be required. Strongly recommended: previous PC experience. 3 hours. Transfer: CSU; UC; C-ID: GEOG 155.

21 SPATIAL ANALYSIS WITH GEOGRAPHIC INFORMATION SYSTEMS (GIS) 3 UNITS

GIS facilitates visualization of spatial relationships and decision-making by means of interactive linkages between vector and raster data formats. Addresses real-world application of GIS principles, industry-standard software tools and quantitative techniques to multi-layered thematic data. Students will acquire advanced hands-on GIS experience in managing, editing, merging, intersecting, and statistically analyzing spatial data from many diverse sources, and in preparing high-quality cartographic presentations. Field trips may be required. Prerequisite: Geography 20 (completed with a grade of "C" or higher). 3 hours. Transfer: CSU.

22 ADVANCED GIS APPLICATIONS**3 UNITS**

Practical, hands-on survey of some of the more advanced applications of GIS, integrating vector, grid, and digital image data formats. Emphasizes environmental applications of GIS industry-standard software tools to analyze spatial problems quantitatively, including network analysis, watershed modeling, digital elevation modeling, digital image processing, and digital rectification of multi-layered thematic data. Includes integration of Global Positioning System (GPS) operational characteristics, collection and interfacing GPS data with GIS. Field trips may be required. Prerequisite: Geography 20 (completed with a grade of "C" or higher). 3 hours. Transfer: CSU.

95 GEOGRAPHY WORK EXPERIENCE**1-3 UNITS**

College supervised on-the-job training in Geographic Information Systems (GIS). Applications of principles, methodologies, and skills in using GIS to analyze real-world spatial problems and aid in decision-making. Cooperative effort between student, work supervisor, and instructor to broaden the student's experience with GIS tools and functionality in many professional endeavors. Corequisite: Geography 96. 5-15 hours of employment per week. Transfer: CSU.

96 GEOGRAPHY WORK EXPERIENCE SEMINAR 1 UNIT

Discussion and analysis of experiences on-the-job in applying Geographic Information Systems (GIS) techniques and methodologies to projects in a business or governmental agencies. Review of essential skills and management issues in using GIS to analyze real-world spatial problems and aid in decision-making. Discussion of ways to broaden experience with GIS tools and functionality in many professional endeavors, with emphasis on building strong working relationships with supervisors and coworkers. Corequisite: Geography 95. 1 hour. Transfer: CSU.

**GERMAN (GERM)****1A BEGINNING GERMAN****5 UNITS**

Introduction to the German-speaking cultures of the world featuring the study and practice of the four language skills (listening, speaking, reading, and writing) of German. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Strongly recommended: Eligibility for English 1A. 5 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE.

1B ELEMENTARY GERMAN**5 UNITS**

Further study of German-speaking cultures of the world featuring the acquisition of the four language skills (listening, speaking, reading, writing) of German begun in German 1A. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: German 1A (completed with a grade of "C" or higher). 5 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; IGETC. (Corresponds to 2 years high school study.)

2A INTERMEDIATE GERMAN**4 UNITS**

Review of grammar; reading of works of modern authors; practice in conversation and composition. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: German 1B (completed with a grade of "C" or higher). 4 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; IGETC.

2B ADVANCED GERMAN**4 UNITS**

Reading of German authors; advanced review of grammar; emphasis on speaking and composition. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: German 2A (completed with a grade of "C" or higher). 4 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; IGETC.

50A GERMAN CONVERSATION AND CULTURE I 3 UNITS

Development of a basic understanding of spoken German through pronunciation, vocabulary, and applied grammar. Introduction to the everyday culture of German-speaking people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. 3 hours lecture, 1 hour laboratory. Transfer CSU.

50B GERMAN CONVERSATION AND CULTURE II 3 UNITS

Development of skills learned in German 50A. Understanding of spoken German through pronunciation, vocabulary, and applied grammar. Further study of the life and culture of the German-speaking people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: German 50A (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer CSU.

GLOBAL STUDIES (GLST)

1 INTRODUCTION TO GLOBAL STUDIES 3 UNITS

This course is an introduction to the interdisciplinary field of Global Studies. Explores the current processes of "globalization" in the world today and the impact on people and societies. Examines conflicts arising out of competition over resources, the impact of wars, economic and environmental disruption and transnational migrations of people. Explores debates over globalization and the social movements that have arisen in response to the impact of globalization. May not receive credit if Anthropology 7 has been completed. Strongly Recommended: Eligibility for ENGL 1A. Transfer: CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).

2 ISSUES IN GLOBAL STUDIES 3 UNITS

This course introduces students to the origins, current status, and future trends of major transnational issues confronting the global community. Topics can include population trends, economic development and inequality, basic human needs such as food, water, health care, shelter, human rights, international conflict, migration, security concerns, and environmental problems. The course also focuses on global governance, including the study of collective global responsibilities. Strongly Recommended: Eligibility for ENGL 1A. Transfer: CSU; UC.

GRAPHIC DESIGN

(See Art)



HEALTH (HLTH)

1 INTRODUCTION TO HEALTH 3 UNITS

Physiological, psychological, and social perspectives of health. Emphasis on knowledge, attitudes and behaviors that will contribute to a healthy individual. 3 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limitations may apply)

4 WOMEN AND HEALTH 3 UNITS

Health issues that affect women in contemporary American society. Exploration of current health concerns, legislation, medical practices, attitudes and behaviors that promote health and wellness. 3 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limitations may apply)

8 HUMAN SEXUALITY 3 UNITS

(See also Psychology 8 or Sociology 8)
Physiological and psychosocial aspects of sexual health in our contemporary society. Understanding the interrelationship of attitude and behavior as it relates to sexual well-being and sexual integrity. May not receive credit if Psychology 8 or Sociology 8 has been completed. 3 hours. Transfer: CSU; UC; CSU/GE. (UC unit/credit limits may apply)

16 HEALTHY WEIGHT LOSS 3 UNITS

Physical, emotional, and spiritual perspectives of healthy weight loss. Emphasis on acquiring knowledge and developing life skills required to achieve a healthy weight for improved wellness. 3 hours. Transfer: CSU; CSU/GE. (UC unit/credit limits may apply)

40 INTRODUCTION TO HEALTH PROFESSIONS 1.5 UNITS

Introduction to the diverse occupations and care systems in the health care and community wellness field, as well as to skills and personal characteristics needed in these professions.

51A BASIC MEDICAL TERMINOLOGY 4 UNITS

Terminology used typically by the medical profession; explanation of the history of terminology, prefixes, suffixes, and root words, emphasis on spelling, definitions, pronunciation, and an understanding of their meanings; includes medical abbreviations, anatomical, disease, diagnostic, medical, surgical, and additional terms as they relate to each body system. 4 hours. Transfer: CSU.

51B DISEASE PROCESS AND ADVANCED MEDICAL TERMINOLOGY 4 UNITS

Introduction to the nature of disease and to structural and functional changes of diseases as they affect the systems of the body; discussion of causes, symptoms and treatment of disease. Prerequisites: Health 51A (completed with a grade of "C" or higher). 4 hours. Transfer: CSU.

60 RESPONDING TO EMERGENCIES**1 UNIT**

Development of knowledge and skills for recognizing and caring for emergency situations. Includes healthy lifestyles, and prevention of illness and injury. Designed to meet the needs of individuals in the community who frequently provide First Aid. Successful completion of the knowledge and skills tests qualifies for a National Safety Council First Aid and Adult CPR card. 1 hour lecture, 1 hour laboratory. Transfer: CSU.

70A HEARTSAVER CPR & AED**.5 UNIT**

A comprehensive course for the First responder, this course is designed to teach Cardiopulmonary Resuscitation (CPR), use of an Automatic External Defibrillator (AED) and relief of foreign body airway obstruction (FBAO) to all lay rescuers, particularly those expected to respond to emergencies in the workplace. Responders such as police, airline personnel, security personnel, corporate employees, family members of patients at high risk for sudden cardiac death, other rescuers, and those who need or want to learn CPR and how to operate an AED. Successful completion on the final exam and skills performance will qualify the participant for an American Heart Association Heartsaver AED course completion card. The mission of the American Heart Association's Emergency Cardiovascular Care Programs is to reduce disability and death from cardiac and respiratory emergencies and stroke by improving the Chain of Survival in every community. 6 hours lecture, 6 hours laboratory, 12 hours total. Transfer: CSU.

70B HEALTHCARE PROVIDER CPR**0.2 UNIT**

The BLS Healthcare Provider Course teaches CPR skills for helping victims of all ages (including performing ventilation with a barrier device, a bag-mask device, and oxygen); use of an automated external defibrillator (AED); and relief of foreign-body airway obstruction (FBAO). It's intended for participants who provide health care to patients in a wide variety of settings, including in-hospital and out-of-hospital. For Healthcare providers, such as physicians, nurses, paramedics, emergency medical technicians, respiratory therapists, physical and occupational therapists, physician's assistants, residents or fellows, or medical or nursing students in training, aides, medical or nursing assistants, police officers, and other allied health personnel. The mission of the American Heart Association's Emergency Cardiovascular Care Programs is to reduce disability and death from cardiac and respiratory emergencies and stroke by improving the Chain of Survival in every community. Successful completion of final exam and skills performance qualifies participant for American Heart Association Healthcare Provider course card. Prerequisite: Health 70A or Health 60 (either within the last 2 years) or current Healthcare Provider CPR card for renewal. 2 hours lecture, 4 hours laboratory, 6 hours total. Transfer: CSU.

205 FITNESS AFTER 50**NON-CREDIT**

Benefits and techniques for a regular exercise routine for elders, geared to residents of skilled-nursing facilities. Students will discover special needs for fitness to maintain health and vigor throughout a lifetime. 1 hour





HISTORY (HIS)

1 HISTORY OF WESTERN CIVILIZATION TO 1600 3 UNITS

Origin and development of civilization in the Mediterranean and its expansion into Europe—the Near East, Greece, Rome and the Middle Ages, Renaissance and the Reformation. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

2 HISTORY OF WESTERN CIVILIZATION SINCE 1600 3 UNITS

History of the Modern Western World; Romanticism and the Industrial Revolution to the present. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

3 WORLD HISTORY: BEGINNING TO 1500 3 UNITS

A survey of world history from the beginning of civilization and ancient cultures to 1500 C.E. Interconnections and divergence among cultures and civilizations in a global context will be emphasized. During the classical period, up to 500 C.E., similarities and differences as civilizations developed will be examined. The postclassical period, 500 to 1500, will look specifically at contact and interaction among peoples. Broader forces that affect civilizations such as trade patterns, migration, nomadism, syncretism, and disease patterns will be studied. 3 hours lecture. Transfer: CSU; UC; CSU/GE; IGETC.

4 WORLD HISTORY: 1500 TO THE PRESENT 3 UNITS

A survey of world history from 1500, including the early modern and modern eras. Interconnections and exchange will be emphasized. Similarities and differences among cultures will be examined. Cultural, intellectual, and technological developments and exchange will be explored. Broader forces that affect civilizations such as borderlands, exploration and travel, gender and class will be studied. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

5 CRITICAL THINKING IN HISTORY 3 UNITS

Introduction to critical thinking, reading, writing skills and practical logic and reasoning through study of historical method. Emphasis on the techniques and principles of effective written and oral argument in case studies and historical problems. Includes the perspective of Middle Eastern and Arab Americans, European Americans, Asian Americans, African Americans and Mexican Americans. 3 hours. Transfer: CSU; UC; CSU/GE.

7 U.S. HISTORY THROUGH RECONSTRUCTION 3 UNITS

A survey of United States history from its pre-colonial, indigenous origins through the end of Reconstruction. Emphasis on (1) distinctively American patterns of political, economic, social, intellectual and geographic developments, (2) the interaction amongst and the experiences of diverse racial, ethnic and socioeconomic groups in American history, and (3) the evolution of American institutions and ideals including the U.S. Constitution, representative democratic government, the framework of California state and local government, and the relationships between state/local government and the federal government. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: HIST 130.

7S SUPPLEMENTAL INSTRUCTION IN U.S. HISTORY THROUGH RECONSTRUCTION 1 UNIT

Introduction to and review of context-based skills for effective participation and successful completion of History 7 (U. S. History Through Reconstruction). Emphasis on building skills to succeed in a history survey course. Corequisite: History 7. 1 hour.

8 U.S. HISTORY SINCE RECONSTRUCTION 3 UNITS

A survey of United States history from 1877 to the present with a special emphasis on the interaction amongst and the experiences of diverse racial/ethnic (African Americans, European Americans, Native Americans, Chicano/Latino Americans, Asian Americans, and Middle Eastern Americans), gender and socioeconomic groups in American History. Includes analysis of (1) the U.S. Constitution as a living document in the context of historical change, and (2) significant issues related to California state and local governments. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

12 HISTORY OF CALIFORNIA 3 UNITS

Historical development of California, including Spanish exploration and settlement and the Mexican Revolution. Transformation of California under United States control: the American conquest, the Gold Rush, and dynamic expansion to the present day. Includes Native Americans, Mexican Americans, European Americans, Asian Americans and African Americans groups. Emphasis on political, economic, and social factors which transformed American California from a relatively simple rural society to a highly complex ethnically diversified agricultural-industrial system. Analysis of historical issues and current problems. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

19 HISTORY OF MODERN CHINA AND JAPAN FROM LATE 19TH TO EARLY 20TH CENTURY 3 UNITS

History and culture of modern China and Japan. Social, political, economic and cultural structures and processes; ideologies and leadership modernization and development; and selected aspects of regional and international interactions. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

20 THE AFRICAN-AMERICAN EXPERIENCE IN U.S. HISTORY THROUGH RECONSTRUCTION 3 UNITS

Survey of major themes and issues of the history of the United States with a particular focus upon African Americans and the gendered racial, ethnic, and socioeconomic diversity within the nation. Contacts between European peoples, African peoples and the indigenous peoples of the New World to the establishment of the British colonies in North America, the formation of the nation, its expansion westward and the social, political and economic factors which lead to division. Examination of the role of race and slavery as evolving concepts and practices affecting the nation's development. Analysis of the role of local, state and federal governments and the constitution as institutions of both consistency and change. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

21 AFRICAN-AMERICAN HIST 20 CENT 3 UNITS

Survey of major themes and issues of the history of the United States, focusing upon African Americans and the gendered racial, ethnic, and socioeconomic diversity within the nation. Emergence of the country from the Civil War and Reconstruction, tracing such themes as industrialization, immigration and migration, Progressivism, the nation at economic crisis and at war, the rise of social movements and the social and political backlash against them, and the evolving diversity of the nation. Analysis of the role of the local, state, and federal governments and the Constitution as institutions of both consistency and change. 3 hours. **May not receive credit if ES 21 is completed.** Transfer: CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).

22 MEXICAN AMERICAN HISTORY AND CULTURE 3 UNITS

A survey of Mexican American history from pre-Columbian period through the present. Special emphasis on Mexican Americans' role in the political, economic, social and geographic development in the United States. Major topics include European colonization, native cultures and slavery, the U. S. – Mexican War, World War I and World War II, industrialization, immigration and labor, and the Civil Rights Movement. This course includes analysis of the U. S. Constitution, Supreme Court Rulings, and California state and local government issues related to the rights of Mexican Americans. **May not receive credit if ES 22 is completed.** 3 hours. Transfer: CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).

25 AMERICAN INDIAN HISTORY AND CULTURE 3 UNITS

Historical survey of American Indians in the United States from earliest times to the present day. Emphasis on Indian societies and cultures, Indian relations with predominant cultures, Indian movement for self-preservation, and historical background necessary to understand contemporary problems of the Indians. Emphasis on the Indians of California and the West. **May not receive credit if ES 25 is completed.** 3 hours. Transfer: CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).

27 U.S. WOMEN'S HISTORY 3 UNITS

A survey of United States women's history from its indigenous origins through the present. Emphasizes the interaction and experiences of diverse racial/ethnic groups that include at least three of the following groups: African-Americans, Chicana/Latina Americans, Asian Americans, European Americans, Native Americans, and Middle Eastern Americans. Special areas of focus include women's role in the political, economic, social, and geographic development of the United States. This course includes an analysis of the U.S. Constitution and pertinent amendments as a living document. California State Constitution is compared to the U.S. Constitution with regard to women's rights. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC

HUMANITIES (HUMN)**DEGREE:**

AA-HUMANITIES (GENERAL)

The humanities seek to render an integrative and critical examination of the human achievements in art, literature, philosophy and music. This approach will broaden and enrich the students' appreciation of human values derived from the creative forces as expressed in the arts. Courses offered in this curriculum meet general education and transfer requirements and may be applied to a major in humanities for an Associate in Arts degree.

PROGRAM-LEVEL OUTCOMES

1. Demonstrate an understanding between the arts as personal expression and the arts as socially transformative.
2. Demonstrate an understanding of both objective and subjective responses to a work of art (literary, performing, or fine).

HUMANITIES (GENERAL)

ASSOCIATE IN ARTS DEGREE

YEAR ONE		UNITS
ARTH 4	Art History-Ancient to Gothic	3
HIS 1	History of Western Civilization to 1600	3
HUMN 50	The Artful Life	3
PHIL 50	God, Nature, Human Nature	3
RELS 50	Religions of the World	3
YEAR TWO		UNITS
HIS 2	History of Western Civilization Since 1600	3
ARTH 5	Art History - Renaissance to Modern	3
HUMN 65	The American Style	3
	or	
HUMN 68	World Mythology	3
	or	
HUMN 72	Contemporary Humanities	3
PHIL 60	Introduction to Philosophy: Ethics	3
	or	
PHIL 65	Introduction to Philosophy: Theory of Knowledge	3

GENERAL EDUCATION COURSE

For specific General Education courses refer to catalog section on A. A. Graduation Requirements.

Recommended: minimum one year of a foreign language.

TOTAL UNITS 27

HUMAN SERVICES

(See Psychology-Counseling)

HUMANITIES (HUMN)

50 THE ARTFUL LIFE

3 UNITS

A broad range of the arts, from a variety of historical periods and cultures, will be examined as expression and integration of self. Explore creativity as process, product, and attitude toward life. Study the artist as seeker of authenticity and the relationship between art and artist. Students will learn how to respond critically as well as to articulate their experience of great works of the human imagination. Explore foundational principles and theories in the various humanities disciplines. 3 hours. Transfer: CSU; UC; CSU/GE.

60 CREATIVITY AND THE COMMUNITY

3 UNITS

The Arts as an expression of the community; the relationship between creativity and community; the artist as the conscience of society and the role of the audience in completing an artwork. Themes include the artist as prophet, art as transformative experience, the arts and social justice, and the shock of the new. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

65 THE AMERICAN STYLE

3 UNITS

Humanities of the United States. Major works of literature, painting, sculpture, architecture, films, music, philosophy, science, religion and political and social institutions. Particular attention to values and meanings that reflect the American cultural experience specifically the crisscrossing dynamics of race, ethnicity, gender, religion and class in American society. 3 hours. Transfer: CSU; UC; CSU/GE.

68 WORLD MYTHOLOGY

3 UNITS

Introduction to mythic themes recurring in global literature, the visual arts, and music; gods, humans, heroes; their origins, variations, historical development, and full expression in classical times and continued presence in the arts. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

72 CONTEMPORARY HUMANITIES

3 UNITS

Visual, literary, and/or musical works of art that reflect the issues and concepts of their time. A perspective through exploration of chosen works. 3 hours. Transfer: CSU; UC.

INDEPENDENT STUDY

INDEPENDENT STUDY

.5-2 UNITS

Independent study may be contracted through an instructor for research, field experience or skill development. Students must make arrangements with the instructor, as well as complete the Independent Study Contract (available from instructors or academic departments). The instructor monitors academic progress as the student completes the coursework within the guidelines of the agreement. Independent study may be offered under any subject area contained in the Catalog using the number 29. Transfer CSU.

INDUSTRIAL TECHNOLOGY (INDT)

DEGREE:

AS—INDUSTRIAL TECHNOLOGY

INDUSTRIAL TECHNOLOGY

ASSOCIATE IN SCIENCE DEGREE

YEAR ONE		UNITS
MTT 70	Introduction to Machine Shop	2
BUS 12	Introduction to Business	3
CAS 50	Introduction to Computer Application Systems	3
MTT 50	Blueprint Reading, Sketching, and CAD	3
MTH 36	Trigonometry	3
	or	
MTH 37	Trigonometry with an Emphasis on its Geometric Foundations	5
WELD 70	Introduction to Welding	2



INDUSTRIAL MANUFACTURING

Today's challenging economy and ever-changing technology require a more educated workforce. Chabot College has designed a cluster of **Industrial Manufacturing** courses to provide the skill-focused opportunities that employers need for their businesses to grow and thrive.



Electronic Systems • Machine Tool Technology Welding
Technology • Engineering

Visit www.chabotcollege.edu or call the
Student Help Desk - (510) 723-6770



YEAR TWO		UNITS
BUS 1A	Financial Accounting	4
CSCI 10	Introduction to Programming Using Visual BASIC.NET	4
MTT 65	Production Practices	4
BUS 1B	Managerial Accounting	4
BUS 10	Business Law	4

GENERAL EDUCATION UNITS FOR A.S. DEGREE

For specific A.S. General Education courses refer to catalog section on A.S. Graduation Requirements.

General Education Suggestions: Chemistry 30A-30B, Economics 1, Mathematics 1, Physics 2A-2B. This program is intended for technical career majors and is not designed for transfer to four-year institution.

REQUIRED MAJOR SPECIFIC G.E. REQUIREMENT.

Complete a minimum of 3 units from the following:		Units
INDT 74	Measurements and Calculations	3

General Education Suggestions: Chemistry 30A-30B, Economics 1, Mathematics 1, Physics 2A-2B. This program is intended for technical career majors and is not designed for transfer to four-year institution.

This course listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS **36 - 38**

INDUSTRIAL TECHNOLOGY (INDT)

74 MEASUREMENTS AND CALCULATIONS 3 UNITS

Calculator techniques for whole number and decimal arithmetic problem solving, fraction-decimal conversion, percentages, ratio and proportion, algebra, geometry, areas and volumes, English metric conversion, and numerical trigonometry as applied in industry. 3 hours. Transfer: CSU.

94 OCCUPATIONAL WORK EXPERIENCE 3-4 UNITS

College supervised on-the-job training. Apprenticeship work experience in an occupation related to student's apprenticeship program. Cooperative effort of the work supervisor, student, Joint Apprenticeship Training Council (JATC) or Program Sponsor, and instructor to achieve work-based learning objectives. Student must be enrolled in an apprenticeship program. Each unit of credit requires 75 hours of paid work experience.

INTERIOR DESIGN (ID)

DEGREE:

AS—INTERIOR DESIGN

CERTIFICATE OF ACHIEVEMENT:

INTERIOR DESIGN

KITCHEN AND BATH DESIGN

This two-year diploma program prepares students to design commercial, office, retail, institutional and residential solutions to real design problems. The program emphasizes space planning, creative problem-solving, communication skills, knowledge of building materials and construction, furnishings, presentation, conventional and computer-aided drafting, and the history of design.

INTERIOR DESIGN (AS)

ASSOCIATE IN SCIENCE

This two-year diploma program prepares students to design commercial, office, retail, institutional and residential solutions to real design problems. The program emphasizes space planning, creative problem-solving, communication skills, knowledge of building materials and construction furnishings, presentation, conventional and computeraided drafting, and the history of design.

PROGRAM-LEVEL OUTCOMES

1. Develop functional interior spaces.
2. Demonstrate proficiency in drawing appropriate floor plans.

YEAR ONE		UNITS
ID 50	Residential Space Planning	3
ID 54	Principles of Interior Design	3
ID 55	Introduction to Textiles	3
ID 52	History of Interiors and Furnishings	3
ID 62	Kitchen and Bathroom Design	3
ID 68	CAD for Architecture and Interior Design	3
	or	
ARCH 68	CAD for Architecture and Interior Design	3
YEAR TWO		UNITS
ID 58	Fundamentals of Lighting	3
ID 60	Materials and Resources	3
ID 72	Commercial Interior Design	3
ID 56	Professional Practices	3
ID 48	Drafting for Interior Designer	3

GENERAL EDUCATION UNITS FOR A.S. DEGREE

For specific A.S. General Education courses refer to catalog section on A.S. Graduation Requirements.



REQUIRED MAJOR SPECIFIC G.E. REQUIREMENT.

Complete a minimum of 3 units from the following.	Units
ART 23 2-D Foundations	3
TOTAL UNITS	33

INTERIOR DESIGN
CERTIFICATE OF ACHIEVEMENT

This certificate prepares students to design commercial, office, retail, institutional and residential solutions to real design problems. The certificate emphasizes space planning, creative problem-solving, communication skills, knowledge of building materials and construction, furnishings, presentation, conventional and computeraided drafting, and the history of design.

PROGRAM-LEVEL OUTCOMES

1. Develop functional interior spaces.
2. Demonstrate proficiency in drawing appropriate floor plans.

CORE COURSES

	UNITS
ART 23 2-D Foundations	3
ID 50 Residential Space Planning	3
ID 52 History of Interiors and Furnishings	3
ID 55 Introduction to Textiles	3
ID 62 Kitchen and Bathroom Design	3
or	
ID 48 Drafting for Interior Designer	3
ID 68 CAD for Architecture and Interior Design	3
or	
ARCH 68 CAD for Architecture and Interior Design	3
ID 72 Commercial Interior Design	3
ID 54 Principles of Interior Design	3
ID 56 Professional Practices	3
ID 58 Fundamentals of Lighting	3
ID 60 Materials and Resources	3
TOTAL UNITS	33

KITCHEN AND BATH DESIGN
CERTIFICATE OF ACHIEVEMENT

This certificate prepares students to design kitchen and bath in residential solutions to real design problems. The certificate emphasizes space planning, creative problem-solving, communication skills, knowledge of building materials and construction, furnishings, presentation, conventional and computeraided drafting. It is also under the guidelines of National Kitchen and Bath Associations (NKBA).

PROGRAM-LEVEL OUTCOMES

1. Develop and design functional kitchen and bath spaces.
2. Draw appropriate floor plans and elevations per NKBA requirements.
3. Apply materials and color selections for Kitchen and Bath spaces.
4. Demonstrates an understanding of professional requirements.

YEAR ONE		UNITS
ID 50	Residential Space Planning	3
ID 52	History of Interiors and Furnishings	3
ID 62	Kitchen and Bathroom Design	3
ID 54	Principles of Interior Design	3
ID 56	Professional Practices	3
ID 58	Fundamentals of Lighting	3
ID 60	Materials and Resources	3

YEAR TWO		UNITS
ID 48	Drafting for Interior Designer	3
ID 68	CAD for Architecture and Interior Design 3	3
	or	
ARCH 68	CAD for Architecture and Interior Design	3
ID 70	Advanced Kitchen and Bath Design	3
BUS 95	Work Experience	2
	or	
WEXP 95	Work Experience	2
BUS 96	Work Experience Seminar	1
	or	
WEXP 96	Work Experience Seminar	1

To become National Kitchen and Bath Association certified, 120 hours of internship are required.

TOTAL UNITS	33
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INTERIOR DESIGN (ID)

48 DRAFTING FOR INTERIOR DESIGNER 3 UNITS

Drafting for Interior Designers course will introduce tools and techniques necessary for interior designers to prepare drawings of interior spaces that will enhance and protect the health, safety, and welfare of the public. 3 hours lecture. Transfer: CSU.

50 RESIDENTIAL SPACE PLANNING 3 UNITS

Basic techniques in planning space for interiors. Private and group living spaces, support systems, functional planning of interior space, and color in space planning. 2 hours lecture, 3 hours laboratory. Transfer: CSU.

52 HISTORY OF INTERIORS AND FURNISHINGS 3 UNITS

A survey of the history of interiors and furnishings from Egyptian period to the present. Emphasis on furniture styles and ornamentation. 3 hours. Transfer: CSU.

54 PRINCIPLES OF INTERIOR DESIGN 3 UNITS

Elements and principles of design as they apply to interior design. Emphasis on the use of color and texture in the selection of home furnishings. 2 hours lecture, 3 hours laboratory. Transfer: CSU.

55 INTRODUCTION TO TEXTILES 3 UNITS

The textile industry and its effects on the apparel and home furnishing markets. Fiber identification, yarn and fabric construction, and decoration. Emphasis on consumer information, fabric performance, care and labeling, and legal responsibilities of the industry. 3 hours. Transfer: CSU.



56 PROFESSIONAL PRACTICES 3 UNITS
 Interior design practices including business and marketing aspects, wholesale resource development, design presentation and career preparation, contractual obligations. 3 hours. Transfer: CSU.

58 FUNDAMENTALS OF LIGHTING 3 UNITS
 Residential and commercial lighting systems as they apply to what constitutes a well-lit interior space. Includes an investigation of current lighting fixtures and lighting resources. 3 hours. Transfer: CSU.

60 MATERIALS AND RESOURCES 3 UNITS
 Survey of residential and commercial interior furnishings with attention to product knowledge of furniture, textiles, ceramics, glass, metals, plastics and composite materials. Skills needed to perform related activities. Strongly recommended: Interior Design 55. 3 hours. Transfer: CSU.

62 KITCHEN AND BATHROOM DESIGN 3 UNITS
 Survey of the field of kitchen and bathroom designs. Includes resources, materials, trends, costs and needs, both functional and aesthetic. 2 hours lecture, 3 hours laboratory. Transfer: CSU.

68 CAD FOR ARCHITECTURE AND INTERIOR DESIGN 3 UNITS
 (See also Architecture 68)
 Introduction to computer-aided drafting. Topics include command basics including drawing entity creation and modification, industry layering standards, text and dimensioning systems appropriate to architecture, creating symbol libraries, external reference techniques, model and paper space commands, and plotting techniques. (May not receive credit if ARCH 68 has been completed). 2 hours lecture, 4 hours studio. Transfer: CSU.

70 ADVANCED KITCHEN AND BATH DESIGN 3 UNITS
 National Kitchen and Bath (NKBA) planning guidelines and NKBA Access Standards for kitchen and bath. Emphasis on designing a universal kitchen and universal bath. Creation of working documents to design a kitchen and bath from its beginning to completion. Prerequisite: Interior Design 62. 3 hours. Transfer: CSU.

72 COMMERCIAL INTERIOR DESIGN 3 UNITS
 Introduction to the field of commercial design. Emphasis on the design of interior spaces such as offices, restaurants and hotels. Topics will include space planning, interior specifications and costing out jobs. Prerequisite: Interior Design 50. 3 hours. Transfer: CSU.

74 INTERNSHIP 3 UNITS
 Provides the focal point for the coordination of the student's curriculum with college supervised employment/volunteering in the student's major field. Emphasis on building strong working relationships with supervisors, subordinates, co-workers. Issues pertaining to the modern workplace.

INTERNATIONAL STUDIES

DEGREE:
 AA—INTERNATIONAL STUDIES

**INTERNATIONAL STUDIES
 ASSOCIATE IN ARTS DEGREE**

PROGRAM-LEVEL OUTCOMES

1. Develop a strong comprehension of international politics and U.S. foreign policy.
2. Encourage active engagement with international affairs current events.
3. Ability to link international developments to national politics and elections, and the everyday activities of individuals.

YEAR ONE	UNITS
Foreign Language *	4 - 5
Option Course	3
GEOG 2 Cultural Geography	3
or	
ANTH 3 Social and Cultural Anthropology	3

YEAR TWO	UNITS
Foreign Language *	4 - 5
Option Course	3
POSC 30 International Relations	3
ECN 1 Principles of Microeconomics	3
or	
ECN 2 Principles of Macroeconomics	3

Options (Choose 6 units from the following. Choices must come from two different disciplines.)

	Units
ANTH 7 Introduction to Global Studies: An Anthropological Perspective	3
BUS 40 International Business	3
COMM 6 Introduction to Performance Studies	3
COMM 11 Intercultural Communication	3
ENGL 26 The Literature of Immigration and Migration	3
ENGL 48 The Literature of the Holocaust	3
GEOG 3 Economic Geography	3
GEOG 5 World Regional Geography	3
GNST 31 Women's Spirituality: An Examination of Ancient and Emerging Traditions	3
HIS 4 World History: 1500 to the Present	3
POSC 10 Seminar in Comparative Politics	3
POSC 20 Comparative Politics	3
RELS 50 Religions of the World	3

General Education Requirements.

For specific A.A. General Education courses refer to catalog section on A.A. Graduation Requirements

TOTAL UNITS 23 - 25

*Select from individual foreign languages (units may be from multiple languages); up to 5 foreign language units may be waived with demonstrated proficiency (see Language Arts Department Advanced Level Competency form).

ITALIAN (ITAL)

1A BEGINNING ITALIAN

5 UNITS

Introduction to the Italian-speaking cultures of the world featuring the study and practice of the four language skills (listening, speaking, reading, and writing) of Italian. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Strongly recommended: Eligibility for English 1A. 5 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE.

1B ELEMENTARY ITALIAN

5 UNITS

Further study of Italian-speaking cultures of the world featuring the study and practice of the four language skills (listening, speaking, reading, and writing) of Italian begun in Italian 1A. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: Italian 1A (completed with a grade of "C" or higher). 5 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; IGETC. (Corresponds to 2 years high school study.)

2A INTERMEDIATE ITALIAN

4 UNITS

Review of grammar; reading of works of modern authors; practice in conversation and composition. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: Italian 1B (completed with a grade of "C" or higher). 4 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; IGETC.

2B ADVANCED ITALIAN

4 UNITS

Reading of Italian authors; advanced review of grammar; emphasis on speaking and composition. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: Italian 2A (completed with a grade of "C" or higher). 4 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; IGETC.

50A ITALIAN CONVERSATION AND CULTURE I 3 UNITS

Development of a basic understanding of spoken Italian through pronunciation, vocabulary, and applied grammar. Introduction to the everyday culture of Italian-speaking people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. 3 hours lecture, 1 hour laboratory. Transfer CSU.

50B ITALIAN CONVERSATION AND CULTURE II 3 UNITS

Development of skills learned in Italian 50A. Understanding of spoken Italian through pronunciation, vocabulary, and applied grammar. Further study of the life and culture of the Italian-speaking people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: Italian 50A (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

JAPANESE (JAPN)

PROGRAM-LEVEL OUTCOMES

1. Demonstrate proficiency in understanding and using, orally, the grammatical structures presented and vocabulary assigned.
2. Demonstrate proficiency in understanding and using, in writing, the grammatical structures presented and vocabulary assigned.

1A BEGINNING JAPANESE

5 UNITS

Introduction to the Japanese cultures of the world featuring the study and practice of the four language skills (listening, speaking, reading, and writing) of Japanese. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Strongly recommended: eligibility for English 1A. 5 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE.

1B ELEMENTARY JAPANESE

5 UNITS

Further study of Japanese cultures of the world featuring the acquisition of the four language skills (listening, speaking, reading, and writing) of Japanese begun in Japanese 1A. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: Japanese 1A (completed with a grade of "C" or higher). 5 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; IGETC. (Corresponds to 2 years high school study.)

50A JAPANESE CONVERSATION AND CULTURE I 3 UNITS

Development of an understanding of spoken Japanese through pronunciation, vocabulary, and applied grammar. Introduction to the everyday culture of Japanese-speaking people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. 3 hours lecture, 1 hour laboratory. Transfer: CSU.

50B JAPANESE CONVERSATION AND CULTURE II 3 UNITS

Development of skills learned in Japanese 50A. Development of an understanding of spoken Japanese through pronunciation, vocabulary, and applied grammar. Further study of the life and culture of Japanese-speaking people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: Japanese 50A (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

50C JAPANESE CONVERSATION AND CULTURE III

3 UNITS

Continuation of skills developed in Japanese 50B. Continues to develop an understanding and application of conversational Japanese. Pronunciation, vocabulary, sentences and applied grammar will be covered. Introduces the everyday life and culture of Japanese-speaking people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: Japanese 50B (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU.



50D JAPANESE CONVERSATION AND CULTURE IV

3 UNITS

Continuation of skills developed in Japanese 50C. Continues to develop and apply conversational Japanese skills. Pronunciation, vocabulary, sentences and applied grammar will be covered. Further study of the everyday life and cultural traditions of Japanese-speaking people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: Japanese 50C (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

JOURNALISM

DEGREE:

AA-T—JOURNALISM

AA—JOURNALISM

The Mass Communications Studies: Journalism courses at Chabot College offer degree preparation with exciting hands-on media training for students interested in journalism or other mass communication career options. Our courses are not just for reporters, however! Courses such as Journalism News writing, Introduction to Mass Communication, Newspaper Production, Photojournalism and newspaper and magazine feature writing, prepare students to become strong researchers, information gatherers, vital communicators and advocates needed today in industries such as journalism, reporting, news production, advertising, media relations, public information and other forms of mass communications. These skills will also help people in numerous other careers that require public interaction, information gathering and research.

Chabot College students work with qualified instructors in hands-on learning environments that promote advanced development of research, writing, leadership, oral and written communication skills. Students also develop important technical skills in industry software and learn vital production processes while building social skills.

CAREER OPPORTUNITIES IN JOURNALISM

Journalists, News reporters, Sports reporters, News editors, Copy editors, Designers, Multimedia reporters, Photojournalists, Public information officers, Public Relations practitioners, Advertising

JOURNALISM

ASSOCIATE IN ARTS FOR TRANSFER DEGREE

PROGRAM-LEVEL OUTCOMES

1. Apply knowledge and understanding of the Internet, including various databases in order to independently conduct the research they need to produce credible and well constructed content for publication.
2. Demonstrate knowledge of a broad range of equipment, software, trends, changes and tools needed to be successful in the journalism field.
3. Demonstrate critical understanding of journalism practices, including facts, standards, conventions, and principles, including critical understanding of internal and external forces affecting their operation.

REQUIRED CORE (9 UNITS)

	UNITS
MCOM 20 Journalism: Newswriting and Information Gathering	3
MCOM 21 Newspaper Production I	3
MCOM 41 Introduction to Mass Communications	3

List A (select one - 3 units)

	Units
MCOM 22 Newspaper Production II	3
MCOM 26 Beginning Photojournalism	3

List B (select two - 6 units)

	Units
COMM 50 Introduction to Communication Studies	3
COMM 46 Argumentation and Debate	3
ECN 1 Principles of Microeconomics	3
or	
ECN 2 Principles of Macroeconomics	3
ENGL 7 Critical Thinking and Writing across Disciplines	3
MTH 43 Introduction to Probability and Statistics	4
PHOT 50 Introduction to Photography	3
POSC 1 Introduction to American Government	3
POSC 20 Comparative Politics	3

GENERAL EDUCATION COURSES

Required Courses for the major: 18 units

CSU GE or IGETC (CSU) requirements: 37-39 units

(Possible Double-counting: 18 units)

CSU Transfer Electives as needed to reach 60 CSU transferable units

TOTAL UNITS: 60 units

All courses making up the minimum must be transferable to CSU, and a minimum GPA of 2.0 must be maintained.

TOTAL UNITS **18**



JOURNALISM
ASSOCIATE IN ARTS

Students who complete this degree will be able to transfer to a university or enter the local job market. Many new jobs-in electronic information management are being created. These supplement existing jobs in newspapers and magazines as well as public relations and media. In this program, students will gain hands-on experience with all aspects of gathering, organizing and disseminating information.

CAREER OPPORTUNITIES IN MASS COMMUNICATIONS

Journalist, reporter, designer, photojournalist, editor, Copyeditor, public information officer.

PROGRAM-LEVEL OUTCOMES

1. Apply knowledge and understanding of the Internet, including various databases in order to independently conduct the research they need to produce credible and well constructed content for publication.
2. Demonstrate knowledge of a broad range of equipment, software, trends, changes and tools needed to be successful in the journalism field.
3. Demonstrate critical understanding of journalism practices, including facts, standards, conventions, and principles, including critical understanding of internal and external forces affecting their operation.

YEAR ONE	UNITS
MCOM 41 Introduction to Mass Communications	3
MCOM 20 Journalism: Newswriting and Information Gathering	3
MCOM 21 Newspaper Production I	3
MCOM 22 Newspaper Production II	3
PHOT 50 Introduction to Photography	3

YEARTWO	UNITS
ENGL 7 Critical Thinking and Writing across Disciplines	3
MCOM 23 Newspaper Production III	3
MCOM 24 Newspaper Production IV	3
MCOM 25 Magazine and Newspaper Feature Writing	3
MCOM 26 Beginning Photojournalism	3

GENERAL EDUCATION COURSES

For specific General Education courses refer to catalog section on A. A. Graduation Requirements.

TOTAL UNITS 30

KINESIOLOGY

DEGREE:

- AA-T-KINESIOLOGY
- AA-PHYSICAL EDUCATION

CERTIFICATE OF ACHIEVEMENT:

- AQUATICS
- COACHING
- FITNESS INSTRUCTOR
- SPORTS INJURY CARE

CERTIFICATE OF PROFICIENCY:

- AQUATICS
- COACHING
- FITNESS INSTRUCTOR
- SPORTS INJURY CARE

The Physical Education A.A. degree program is designed for students who want to transfer to a CSU or UC. It provides a rigorous curriculum that will ensure students have met the science and math requirements to enter the CSU and UC Physical Education/Kinesiology and Exercise Physiology Bachelor of Arts programs. The certificate programs help prepare students for physical education careers as well as community based programs.

KINESIOLOGY

ASSOCIATE IN ARTS FOR TRANSFER DEGREE

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an "associate degree for transfer", a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts in Kinesiology for Transfer is intended for students who plan to complete a bachelor's degree in Kinesiology at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

**PROGRAM-LEVEL OUTCOMES**

1. Demonstrate an understanding of health and wellness information using the scientific method, scientific research and established knowledge.
2. Utilize knowledge to design, develop, and implement an effective personalized fitness program.
3. Understand movement as it applies to physical activity to create efficiency of psychomotor skills and achieve maximum benefits in that activity.

REQUIRED CORE (16 UNITS)

	UNITS
KINE 1 Introduction to Kinesiology & Physical Education	3
ANAT 1 General Human Anatomy	5
PHSI 1 Human Physiology	5
PEAC or DANC (3 courses; one unit each; from 3 different categories below)	

Required Core: Movement Based Courses: (Maximum 3 units). Select a maximum of one (1) course from any three (3) of the following areas for a maximum of three (3) units. Individual PEAC courses MUST be 1 unit in order to be used for the degree.

Aquatics (only 1 unit courses can be used)

	Units
PEAC AQA1 Aqua Aerobics	0.5 - 2
PEAC SWM1 Beginning Swimming	0.5 - 2
PEAC LSF1 Introductory Lap Swimming for Cardiovascular Fitness	0.5 - 2
or	
PEAC SMLP Lap Swimming for Cardiovascular Conditioning	0.5 - 2
PEAC JUD1 Beginning Judo	0.5 - 2

Dance (only 1 unit courses can be used)

DANC BAL1 Introduction to Ballroom Dance	0.5 - 2
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Fitness (only 1 unit courses can be used)

PEAC WOW1 Women's Weight Training 1	0.5 - 2
or	
PEAC WEI1 Introduction to Weight Training	0.5 - 2
PEAC WLK1 Walking for Fitness	0.5 - 2
PEAC STP1 Introduction to Cardio- Step	0.5 - 2

Individual Sports (only 1 unit courses can be used)

PEAC ARH1 Archery 1	0.5 - 2
PEAC TEN1 Introduction to Tennis	0.5 - 2
PEAC TEN2 Intermediate Tennis	0.5 - 2
PEAC TEN3 Advanced Tennis	0.5 - 2
PEAC BAD1 Introduction to Badminton	0.5 - 2

Team Sports (only 1 unit courses can be used)

PEAC BSK1 Introduction to Basketball	0.5 - 2
PEAC FFL1 Flag Football League	0.5 - 2
PEAC SOC1 Introduction to Soccer	0.5 - 2

LIST A. (Select two): 8-9 units

		Units
MTH 43	Introduction to Probability and Statistics	4
	or	
PSY 5	Introductory Statistics for the Behavioral and Social Sciences	4
BIOL 31	Introduction to College Biology	4
CHEM 30A	Introductory and Applied Chemistry I	4
	or	
CHEM 30B	Intro and Applied Chemistry II	4
PHYS 2A	Introduction to Physics I	4
	or	
PHYS 4A	General Physics I	5

Required Major Courses: 22-26 units

CSU GE or IGETC (CSU) requirements: 37-39 units

(Possible double counting: 12 units)

CSU Transfer Electives as needed to reach 60 CSU transferable units

TOTAL UNITS: 60 units

All courses in the major or area of emphasis are required to have a grade of "C" or higher, and a cumulative GPA of 2.0 must be achieved.

TOTAL UNITS**24 - 25****PHYSICAL EDUCATION****ASSOCIATE IN ARTS DEGREE****PROGRAM LEARNING OUTCOMES**

1. Demonstrate critical thinking skills within the context of exercise, health, and wellness.
2. Utilize the proper equipment and knowledge to design and implement a personalized this program.

YEAR ONE

		UNITS
BIOL 31 *	Introduction to College Biology	4
KINE ASSE	Physical Fitness Assessments	1
	or	
KINE 15	Introduction to Personal Fitness Training	3
KINE 1	Introduction to Kinesiology & Physical Education	3
ANAT 1	General Human Anatomy	4
KINE 2	Introduction to Athletic Training	4
A total of 1 unit of any ATHL, PEAC, ADPE class(es) (Physical Education Activity)		1

YEAR TWO

		UNITS
CHEM 30A	Introductory and Applied Chemistry I	4
PHSI 1	Human Physiology	5
KINE 8	Introduction to Sport in Contemporary Society	3
	or	
KINE 6	Performance Enhancement thru Mental Training	3

*Meets General Education requirement.



GENERAL EDUCATION COURSES

For specific General Education courses refer to catalog section on AA Graduation Requirements.

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS **29 -31**

AQUATICS

CERTIFICATE OF ACHIEVEMENT

Completion of the following aquatic courses will allow the student to be eligible for employment at local pools.

REQUIRED CORE	UNITS
KINE 1 Introduction to Kinesiology & Physical Education	3
KINE 2 Introduction to Athletic Training	4
KINE 6 Performance Enhancement thru Mental Training	3
KINE 13 American Red Cross Lifeguarding	2
KINE WSI Water Safety Instructor	3
KINE 18 Introduction to CPR and First Aid for Coaches	2

Physical Education Courses	Units
PEAC SWM1 Beginning Swimming	0.5 - 2
KINE PAD1 Prevention of Type II Diabetes through Nutrition and Exercise	0.5
KINE 11 Nutrition For Sports And Human Performance	3

TOTAL UNITS **21 - 22.5**

COACHING

CERTIFICATE OF ACHIEVEMENT

This set of course work is presented as an introduction to those who would like to enter the profession of coaching.

PROGRAM-LEVEL OUTCOMES

1. Demonstrate knowledge of planning and implementing individual and team training plan prior to the season of sport.
2. Use sports training equipment in a specific and proper manner.

REQUIRED COURSES	UNITS
KINE 2 Introduction to Athletic Training	4
KINE 1 Introduction to Kinesiology & Physical Education	3
KINE 18 Introduction to CPR and First Aid for Coaches	2
KINE 3 Introduction to Principles of Coaching	3
Interscholastic Sports: Beyond the Basics	3
or	
KINE 6 Performance Enhancement thru Mental Training	3
KINE 4 Introduction to Sports Management	3
KINE CSA College Success for Athletes	1
KINE 5 Introduction to the Components of Physical Fitness - the Human Body	3
or	

KINE 12BB Introduction to Baseball Officiating	2
or	
KINE 12BK Introduction to Basketball Officiating	2
or	
KINE 12FT Introduction to Football Officiating	2
or	
KINE 12TK Introduction to Track & Field Officiating	2
or	
KINE 3BB Introduction to the Principles of Coaching Baseball	2
or	
KINE 3FT Introduction to Coaching Football	2
or	
KINE 3SF Introduction to Coaching Softball	2
or	
KINE 3SO Introduction to Coaching Soccer	2
or	
KINE 3TK Introduction to Coaching Track and Field	2
or	

Physical Education Courses	Units
KINE PAD1 Prevention of Type II Diabetes through Nutrition and Exercise	0.5
KINE 10 Nutrition for Fitness and Fat Loss	3
or	
KINE 11 Nutrition For Sports And Human Performance	3
PEAC WEI1 Introduction to Weight Training	0.5 - 2
or	
PEAC WOW1 Women's Weight Training 1	0.5 - 2
or	
PEAC FUN1 Core Conditioning for Abs, Hips and Thighs	0.5 - 2
or	
PEAC PLF1 Plyometrics and Agility Training for Women	0.5 - 2
or	
PEAC SPM1 Speed, Plyometric and Agility Training for Men	0.5 - 2
TOTAL UNITS	22 - 24.5



PERSONAL & GROUP FITNESS TRAINING

CERTIFICATE OF ACHIEVEMENT

PROGRAM-LEVEL OUTCOMES

1. Demonstrate an understanding of heart rate.
2. Demonstrate an ability to correctly perform a dead lift.
3. Demonstrate an ability to correct, perform, and teach a clean.

REQUIRED COURSES

	UNITS
KINE 1 Introduction to Kinesiology & Physical Education	3
KINE 8 Introduction to Sport in Contemporary Society	3
or	
KINE 6 Performance Enhancement thru Mental Training	3
or	
KINE 15 Introduction to Personal Fitness Training	3
HLTH 1 Introduction to Health	3
or	
KINE 14 Introduction to Health and Fitness For Your Disability	3
KINE 5 Introduction to the Components of Physical Fitness - the Human Body	3
PEAC HER1 Basic Heart Rate Training: Fitness Training Utilizing a Heart Rate Monitor	0.5 - 2
or	
KINE ASSE Physical Fitness Assessments	1
HLTH 60 Responding to Emergencies	1
or	
HLTH 70B Healthcare Provider CPR	0.2
NUTR 1 The Science of Nutrition	3
BIOL 50 Anatomy and Physiology	4
KINE 2 Introduction to Athletic Training	4

A total of 2 units of any ATHL, PEAC or ADPE class(es)
(Physical Education activity) 2

TOTAL UNITS 25.7 - 28

SPORTS INJURY CARE

CERTIFICATE OF ACHIEVEMENT

This set of course work is presented as an introduction for those who would like to enter into the profession of athletic training.

PROGRAM-LEVEL OUTCOMES

1. Understand, implement safety, prevention, and treatment of athletic injury.
2. Be able to assess a sprain or strain related to an athletic injury.

REQUIRED COURSES

	UNITS
BIOL 50 Anatomy and Physiology	4
or	
ANAT 1 General Human Anatomy	5
KINE 2 Introduction to Athletic Training	4
KINE 5 Introduction to the Components of Physical Fitness - the Human Body	3
KINE 18 Introduction to CPR and First Aid for Coaches	2
or	
HLTH 1 Introduction to Health	3
or	
KINE 14 Introduction to Health and Fitness For Your Disability	3
KINE 11 Nutrition For Sports And Human Performance	3
or	
KINE 10 Nutrition for Fitness and Fat Loss	3

Physical Education Courses (4 units required)*

	Units
PEAC WEI1* Introduction to Weight Training	0.5 - 2
or	
PEAC HER1 Basic Heart Rate Training: Fitness Training Utilizing a Heart Rate Monitor	0.5 - 2
or	
PEAC WOW1 Women's Weight Training 1	0.5 - 2
or	
PEAC SPM1 Speed, Plyometric and Agility Training for Men	0.5 - 2
or	
PEAC PLF1 Plyometrics and Agility Training for Women	0.5 - 2

*The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except when a prerequisite applies.

TOTAL UNITS 20 - 22

AQUATICS

CERTIFICATE OF PROFICIENCY

Completion of this certificate will allow the student the ability to work at local swim centers.

CAREER OPPORTUNITIES IN KINESIOLOGY

Lifeguarding and swim instructor at private clubs and community pools

REQUIRED COURSES

	UNITS
KINE 2 Introduction to Athletic Training	4
KINE 1 Introduction to Kinesiology & Physical Education	3
or	
KINE 5 Introduction to the Components of Physical Fitness - the Human Body	3
KINE 13 American Red Cross Lifeguarding	2
KINE WSI Water Safety Instructor	3
KINE 18 Introduction to CPR and First Aid for Coaches	2



Physical Education Courses (2-3 units required from the following selection) Units

PEAC AQA1	Aqua Aerobics	0.5 - 2
PEAC SWM1	Beginning Swimming	0.5 - 2
KINE 10	Nutrition for Fitness and Fat Loss	3
	or	
KINE 11	Nutrition For Sports And Human Performance	3

TOTAL UNITS 16 - 17

COACHING

CERTIFICATE OF PROFICIENCY

Completion of the following course work along with a background check will make the student eligible for hire as a youth and/or high school athletic coach.

REQUIRED COURSES UNITS

KINE 1	Introduction to Kinesiology & Physical Education	3
KINE 3	Introduction to Principles of Coaching Interscholastic Sports: Beyond the Basics	
KINE 18	Introduction to CPR and First Aid for Coaches	2
	or	
EMS 1	First Responder	2.5

Physical Education Courses Units

PEAC WEI1	Introduction to Weight Training	0.5-2
PEAC SPM1	Speed, Plyometric and Agility Training for Men	0.5-2
	or	
PEAC PLF1	Plyometrics and Agility Training for Women	0.5-2

and one course from the following: Units

KINE 12BK	Introduction to Basketball Officiating	2
KINE 3BB	Introduction to the Principles of Coaching Baseball	2
KINE 3FT	Introduction to Coaching Football	2
KINE 3SF	Introduction to Coaching Softball	2
KINE 3SO	Introduction to Coaching Soccer	2
KINE 3TK	Introduction to Coaching Track and Field	2
KINE 23	Techniques of Strength Training Instruction	3

TOTAL UNITS 11 - 15.5

PERSONAL & GROUP FITNESS TRAINING

CERTIFICATE OF PROFICIENCY

The following courses are designed to prepare the student to for employment in the fitness industry.

CAREER OPPORTUNITIES IN KINESIOLOGY

Completion of the following fitness oriented courses will allow the student to be eligible for employment at local fitness centers and health clubs

PROGRAM-LEVEL OUTCOMES

1. Demonstrate a knowledge of human development and its relationship fitness.
2. Evaluate pre and post fitness level utilizing a variety of fitness testing methods.

CORE COURSES

KINE 15	Introduction to Personal Fitness Training	3
KINE 21	Group Fitness Instructor	3
KINE 22	Introduction to Health Coaching	3
KINE 23	Techniques of Strength Training Instruction	3

TOTAL UNITS 12

SPORTS INJURY CARE

CERTIFICATE OF PROFICIENCY

This set of course work is presented as an introduction to those who would like to enter into the profession of athletic training.

PROGRAM-LEVEL OUTCOMES

1. Understand and demonstrate knowledge of the difference between a sprain and a strain.
2. Be able properly handle and ankle, and elbow, and a knee.

REQUIRED COURSES

KINE 2	Introduction to Athletic Training	4
KINE 18	Introduction to CPR and First Aid for Coaches	2
ANAT 1	General Human Anatomy	5
	or	
BIOL 50	Anatomy and Physiology	4

Physical Education Courses (2-3 units from the courses selected below) Units

KINE 10	Nutrition for Fitness and Fat Loss	3
	or	
KINE 11	Nutrition For Sports And Human Performance	3
PEAC WEI1	Introduction to Weight Training	0.5 - 2
	or	
PEAC SPM1	Speed, Plyometric and Agility Training for Men	0.5 - 2
	or	
PEAC PLF1	Plyometrics and Agility Training for Women	0.5 - 2

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except when a prerequisite applies.

TOTAL UNITS 12 - 14

ADAPTED PHYSICAL EDUCATION (ADPE)

1DSS ADAPTED STRETCH/STRENGTH TRAINING .5-2 UNITS

Designed to give students with disabilities a chance to gain strength and mobility through a series of stretching and resistance exercises in an atmosphere of friendly encouragement. Prerequisite: students must have their personal physician's clearance for the class and must be registered with Disabled Student Services. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

**ADAA ADAPTED AEROBICS****.5-2 UNITS**

Designed for students with a disability to develop cardiovascular efficiency through a variety of exercises. Fitness assessment testing and re-testing will be done to establish appropriate training volumes and intensities. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply.)

ADBK ADAPTED BASKETBALL**.5-2 UNITS**

This course is designed to allowed disabled students the opportunity to learn and play the game of basketball. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

ADSF ADAPTED STRETCH AND FLEXIBILITY .5-2 UNITS

This course is designed to give students with disabilities a chance to gain strength and mobility through a series of stretching and resistance exercise in an atmosphere of friendly encouragement. Long range goals are: increased mobility, increased strength and confidence in themselves so they can face their daily tasks with increased confidence. In some cases (strokes, accident rehabilitation) it may mean a return to almost normal lifestyles for some. Students will learn about training and prevention of metabolic syndrome through diet and exercise in this course. Prerequisite: Students must have their personal physician's clearance for the class and must be registered with Disabled Student Services. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

ADST ADAPTED STRENGTH TRAINING .5-2 UNITS

Designed to provide reasonable accommodations in resistance training, to students with disabilities. Exercises emphasize muscular strength, muscular endurance, and flexibility. Additional topics will include: safety considerations, resistance training principles, and the role of exercise in overall wellness. Prerequisite: Student must have their personal physician's approval to take this course and must be registered with the DSRC. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

ADSW ADAPTED SWIMMING .5-2 UNITS

This course is designed to provide reasonable accommodations in swimming, to students with disabilities. Students will utilize adapted/fundamental swimming skills for the purpose of improving aerobic conditioning. Additional topics will include aquatic safety methods, conditioning principles, and use of aquatic equipment. Students will learn about training and prevention of metabolic syndrome through diet and exercise in this course. Prerequisite: Medical release form must be completed by a physician. Register with DSS counselor. Students must demonstrate the ability to swim 25 yards (1 lap) of freestyle with rhythmic breathing in any depth of water. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

ADTK ADAPTED TRACK AND FIELD .5-2 UNITS

Designed to provide the adaptive student an opportunity to learn and enjoy the sport of track and field. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE.

ASD1 ADAPTED SELF DEFENSE**.5-2 UNITS**

Designed to teach the adaptive student the basics of self defense. Exercises promoting balance, flexibility, muscular strength and endurance, aerobic conditioning, and coordination will be performed. Additional topics will include safety considerations, training principles and the importance of regular exercise for overall wellness. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

ATHLETICS (ATHL)**PROGRAM-LEVEL OUTCOMES**

1. Evaluate, plan and create success as a participant on an athletic team.
2. Plan and implement an individual physical conditioning program prior to the sport season in order to be prepared to begin participation.
3. Demonstrate the ability to relate to teammates, coaches and the competitive atmosphere in a manner that enhances sportsmanship as well as their participation as well as the team environment.

BB13 MEN'S INTERCOLLEGIATE BASEBALL 3 UNITS

(May be repeated 3 times)

Course will include, but not be limited to, baseball specific fundamentals and skills, techniques and sport specific conditioning/training. Students who desire to participate in intercollegiate athletics will be required to adhere to academic eligibility requirements listed in the CCCAA/COA manual, pass a physical examination by a licensed medical doctor and demonstrate an ability to safely participate in the specific intercollegiate sport. Compliance with all rules/regulations governing the specific intercollegiate sport will also be required. Strongly Recommended: Students MUST possess, demonstrate and successfully execute advanced sport-specific skills (Baseball) and techniques as evaluated by the instructor (Head Coach). 10 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

BBPS PRE-SEASON INTERCOLLEGIATE TRAINING FOR BASEBALL 1-2 UNITS

(May be repeated 3 times)

This is a course for pre-season Intercollegiate Baseball. The student will have the opportunity to a develop through a training program designed for baseball at the intercollegiate level. An extensive baseball background and previous experience is needed for success in this class. Strongly Recommended: High level of baseball skills combined with an extensive baseball background. The instructor will evaluate the student's skill level. 3-10 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).



BKMP PRE-SEASON INTERCOLLEGIATE TRAINING FOR MEN'S BASKETBALL .5-2 UNITS

(May be repeated 3 times)

This course is designed for students to increase their off-season physical conditioning, skill/technique level, and knowledge in Men's intercollegiate basketball. Strongly Recommended: Previous high level of competitive basketball experience and skill level. Approval of the instructor. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

BKWP PRE-SEASON INTERCOLLEGIATE TRAINING FOR WOMEN'S BASKETBALL .5-2 UNITS

(May be repeated 3 times)

This course is designed for students to increase their off-season physical conditioning, skill/technique level, and knowledge in women's intercollegiate basketball. Strongly Recommended: High level of basketball skills combined with previous competitive competition. 2-10 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

DFTP PRE-SEASON INTERCOLLEGIATE TRAINING FOR DEFENSIVE FOOTBALL .5-2 UNITS

(May be repeated 3 times)

This course is for pre-season intercollegiate defensive football conditioning. The student will have the opportunity to analyze defensive techniques, develop training programs, and acquire a thorough working knowledge of the defensive side of the sport of football. Strongly Recommended: Student needs to have a high level of skills in football and prior playing experience. The instructor will evaluate if this is the appropriate class. 2-10 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

FT1 INTERCOLLEGIATE FOOTBALL 3 UNITS

(May be repeated 3 times)

Training for intercollegiate competition. Students who desire to participate in intercollegiate athletics will be required to adhere to academic eligibility requirements listed in the CCCAA/COA manual, pass a physical examination by a licensed medical doctor and demonstrate an ability to safely participate in the specific intercollegiate sport. Compliance with all rules/regulations governing the specific intercollegiate sport will also be required. Additional requirements may be set forth by the Head Football Coach. Advisory: Student athlete must have prior high school experience and have talked with the head coach before enrolling in this course. 10 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

MB11 MEN'S INTERCOLLEGIATE BASKETBALL 1.5 UNITS

(May be repeated 3 times)

Training for intercollegiate competition. Students who desire to participate in intercollegiate athletics will be required to adhere to academic eligibility requirements listed in the CCCAA/COA manual, pass a physical examination by a licensed medical doctor and demonstrate an ability to safely participate in the specific intercollegiate sport. Compliance with all rules/regulations governing the specific intercollegiate sport will also be required. Daily practice. 5 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

MCC7 MEN'S INTERCOLLEGIATE CROSS COUNTRY 3 UNITS

(May be repeated 3 times)

Training for intercollegiate competition. Students who desire to participate in intercollegiate athletics will be required to adhere to academic eligibility requirements listed in the CCCAA/COA manual, pass a physical examination by a licensed medical doctor and demonstrate an ability to safely participate in the specific intercollegiate sport. Compliance with all rules/regulations governing the specific intercollegiate sport will also be required. Daily practice. 10 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

MG21 MEN'S INTERCOLLEGIATE GOLF 3 UNITS

(May be repeated 3 times)

Training for intercollegiate competition. Students who desire to participate in intercollegiate athletics will be required to adhere to academic eligibility requirements listed in the CCCAA/COA manual, pass a physical examination by a licensed medical doctor and demonstrate an ability to safely participate in the specific intercollegiate sport. Compliance with all rules/regulations governing the specific intercollegiate sport will also be required. Daily practice. 10 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

MS15 MEN'S INTERCOLLEGIATE SWIMMING & DIVING 3 UNITS

(May be repeated 3 times)

Training for intercollegiate competition. Students who desire to participate in intercollegiate athletics will be required to adhere to academic eligibility requirements listed in the CCCAA/COA manual, pass a physical examination by a licensed medical doctor and demonstrate an ability to safely participate in the specific intercollegiate sport. Strongly Recommended: Previous experience in competitive swimming and diving. Contact the instructor prior to registering for this course. 10 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

**MT19 MEN'S INTERCOLLEGIATE TENNIS 3 UNITS**

(May be repeated 3 times)

Students who desire to participate in intercollegiate athletics will be required to adhere to academic eligibility requirements listed in the CCCAA/COA manual, pass a physical examination by a licensed medical doctor and demonstrate an ability to safely participate in the specific intercollegiate sport. Compliance with all rules/regulations governing the specific intercollegiate sport will also be required. Additional requirements may be set forth by the Instructor of Record for each intercollegiate course. Training for intercollegiate competition. 10 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

**PRSW PRE-SEASON TRAINING FOR MEN'S .5-2 UNITS
AND WOMEN'S INTERCOLLEGIATE SWIMMING**

(May be repeated 3 times)

Pre-season training for men's and women's intercollegiate swimming. All athletes that plan to swim for the Chabot Intercollegiate Team in the Spring should be enrolled in this course. Strongly Recommended: Advanced swim skills and prior competitive experience in swimming. 2-10 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

**PRVB PRE-SEASON TRAINING FOR .5-2 UNITS
WOMEN'S INTERCOLLEGIATE VOLLEYBALL**

(May be repeated 3 times)

Pre-season for women's intercollegiate volleyball. 2-10 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

**PRWR PRE-SEASON TRAINING FOR .5-2 UNITS
COMPETITIVE WRESTLING**

(May be repeated 3 times)

Pre-season training and conditioning for men and women who plan to wrestle on the Chabot Intercollegiate Team. Strongly Recommended: Previous high school wrestling experience. 2-10 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

**PSGF PRE-SEASON TRAINING .5-2 UNITS
FOR COMPETITIVE GOLF**

(May be repeated 3 times)

Pre-season training for athletes intending to participate in Intercollegiate Golf in the Spring. Strongly Recommended: Advanced competitive golf skills are required. 2-10 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

**PSOF PRE-SEASON TRAINING FOR .5-2 UNITS
OFFENSIVE FOOTBALL**

(May be repeated 3 times)

This course is for pre-season intercollegiate offensive football conditioning. The student will have the opportunity to analyze offensive techniques, develop training programs, and acquire a thorough working knowledge of the sport of football. Strongly Recommended: Highly experienced in the sport of football and approval from the head coach. 2-10 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

SB12 WOMEN'S INTERCOLLEGIATE SOFTBALL 3 UNITS

(May be repeated 3 times)

Training for intercollegiate competition. Students who desire to participate in intercollegiate athletics will be required to adhere to academic eligibility requirements listed in the CCCAA manual, pass a physical examination by a licensed medical doctor and demonstrate an ability to safely participate in the specific intercollegiate sport. Compliance with all rules/regulations governing the specific intercollegiate sport will also be required. Daily practice. 10 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

**SCMP MEN'S PRE-SEASON SOCCER .5-2 UNITS
SPORTS CONDITIONING**

(May be repeated 3 times)

This course is designed to give students in men's soccer an understanding of the conditioning and training needed for intercollegiate soccer competition. Strongly Recommended: High level of soccer skill and previous competitive experience. This course is NOT for beginners. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

**SFTP PRE-SEASON INTERCOLLEGIATE .5-2 UNITS
TRAINING FOR SOFTBALL**

(May be repeated 3 times)

This course is for pre-season intercollegiate Softball. The student will develop her softball skills through training programs designed for the intercollegiate level. An extensive softball background and previous experience is needed for success in this class. Strongly Recommended: Previous softball experience and background are required for success in this course. Instructor will evaluate each student's skill level to remain in this course. 2-10 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

SM3 MEN'S INTERCOLLEGIATE SOCCER 3 UNITS

(May be repeated 3 times)

Training for intercollegiate competition. Students who desire to participate in intercollegiate athletics will be required to adhere to academic eligibility requirements listed in the CCCAA/COA manual, pass a physical examination by a licensed medical doctor and demonstrate an ability to safely participate in the specific intercollegiate sport. Compliance with all rules/regulations governing the specific intercollegiate sport will also be required. Daily practice. 10 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

SW2 INTERCOLLEGIATE WOMEN'S SOCCER 3 UNITS

(May be repeated 3 times)

Training for women's intercollegiate soccer competition. Students who desire to participate in intercollegiate athletics will be required to adhere to academic eligibility requirements listed in the CCCAA/COA manual, pass a physical examination by a licensed medical doctor and demonstrate an ability to safely participate in the specific intercollegiate sport. Compliance with all rules/regulations governing the specific intercollegiate sport will also be required. Daily practice. 10 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).



TK16 WOMEN'S INTERCOLLEGIATE TRACK & FIELD 3 UNITS

(May be repeated 3 times)

Students who desire to participate in intercollegiate athletics will be required to adhere to academic eligibility requirements listed in the CCCAA/COA manual, pass a physical examination by a licensed medical doctor and demonstrate an ability to safely participate in the specific intercollegiate sport. Compliance with all rules/regulations governing the specific intercollegiate sport will also be required. Additional requirements may be set forth by the Instructor of Record for each intercollegiate course. Training for intercollegiate competition. Daily practice. 10 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

TK17 MEN'S INTERCOLLEGIATE TRACK & FIELD 3 UNITS

(May be repeated 3 times)

Students who desire to participate in intercollegiate athletics will be required to adhere to academic eligibility requirements listed in the CCCAA/COA manual, pass a physical examination by a licensed medical doctor and demonstrate an ability to safely participate in the specific intercollegiate sport. Compliance with all rules/regulations governing the specific intercollegiate sport will also be required. Additional requirements may be set forth by the Instructor of Record for each intercollegiate course. Training for intercollegiate competition. 10 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

TNPS PRE-SEASON TENNIS CONDITIONING .5-2 UNITS

(May be repeated 3 times)

This course is designed for intercollegiate players in men's and women's tennis. Strongly Recommended: A high level of ability to play competitive tennis. Prior background in competitive tennis is a must. 2-10 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

TRKP PRE-SEASON TRACK AND FIELD TRAINING 1-2 UNITS

(May be repeated 3 times)

This course is for pre-season intercollegiate track and field conditioning. The student will have the opportunity to analyze techniques, develop training programs, and acquire a thorough working knowledge of the rules and conditioning concerning their events. Strongly Recommended: Student must have the skills and ability to compete at the intercollegiate level in community college track and field. This skill level will be evaluated by the instructor. 5-10 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

VB4 WOMEN'S INTERCOLLEGIATE VOLLEYBALL 3 UNITS

(May be repeated 3 times)

Training for intercollegiate competition. Students who desire to participate in intercollegiate athletics will be required to adhere to academic eligibility requirements listed in the CCCAA/COA manual, pass a physical examination by a licensed medical doctor and demonstrate an ability to safely participate in the specific intercollegiate sport. Compliance with all rules/regulations governing the specific intercollegiate sport will also be required. Daily practice. 10 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WB10 INTERCOLLEGIATE WOMEN'S BASKETBALL 1.5 UNITS

(May be repeated 3 times)

Training for intercollegiate competition. Students who desire to participate in intercollegiate athletics will be required to adhere to academic eligibility requirements listed in the CCCAA/COA manual, pass a physical examination by a licensed medical doctor and demonstrate an ability to safely participate in the specific intercollegiate sport. Compliance with all rules/regulations governing the specific intercollegiate sport will also be required. Daily practice. 5 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WCC6 WOMEN'S INTERCOLLEGIATE CROSS COUNTRY 3 UNITS

(May be repeated 3 times)

Training for intercollegiate competition. Students who desire to participate in intercollegiate athletics will be required to adhere to academic eligibility requirements listed in the CCCAA/COA manual, pass a physical examination by a licensed medical doctor and demonstrate an ability to safely participate in the specific intercollegiate sport. Compliance with all rules/regulations governing the specific intercollegiate sport will also be required. Daily practice. 10 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WR5 INTERCOLLEGIATE WRESTLING 3 UNITS

(May be repeated 3 times)

Training for intercollegiate competition. Students who desire to participate in intercollegiate athletics will be required to adhere to academic eligibility requirements listed in the CCCAA/COA manual, pass a physical examination by a licensed medical doctor and demonstrate an ability to safely participate in the specific intercollegiate sport. Compliance with all rules/regulations governing the specific intercollegiate sport will also be required. Daily practice. 10 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).


WS14 WOMEN'S INTERCOLLEGIATE SWIMMING & DIVING
3 UNITS

(May be repeated 3 times)

Training for intercollegiate competition. Students who desire to participate in intercollegiate athletics will be required to adhere to academic eligibility requirements listed in the CCCAA/COA manual, pass a physical examination by a licensed medical doctor and demonstrate an ability to safely participate in the specific intercollegiate sport. Compliance with all rules/regulations governing the specific intercollegiate sport will also be required. Additional requirements may be set forth by the Instructor of Record for each intercollegiate course. Daily practice. Prerequisite: Prior Competitive Experience. 10 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WSCP WOMEN'S PRE-SEASON SOCCER SPORTS CONDITIONING
.5-2 UNITS

(May be repeated 3 times)

This course is designed to give students in women's soccer an understanding of the conditioning needed for more advanced soccer skills and competition. Strongly Recommended: High level of soccer skill and previous competitive experience. Strongly Recommended: High level of soccer skills and a high level of personal fitness is required as a prerequisite for this course. This class is NOT for beginners. 2-10 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WT18 WOMEN'S INTERCOLLEGIATE TENNIS
2 UNITS

(May be repeated 3 times)

Training for intercollegiate competition. Students who desire to participate in intercollegiate athletics will be required to adhere to academic eligibility requirements listed in the CCCAA/COA manual, pass a physical examination by a licensed medical doctor and demonstrate an ability to safely participate in the specific intercollegiate sport. Compliance with all rules/regulations governing the specific intercollegiate sport will also be required. Course will focus on the basic techniques. Additional requirements may be set forth by the Instructor of Record for each intercollegiate course. Daily practice. 10 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WWP8 INTERCOLLEGIATE WOMEN'S WATER POLO
3 UNITS

(May be repeated 3 times)

Training for women's intercollegiate water polo. Students who desire to participate in intercollegiate athletics will be required to adhere to academic eligibility requirements listed in the CCCAA/COA manual, pass a physical examination by a licensed medical doctor and demonstrate an ability to safely participate in the specific intercollegiate sport. 10 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

DANCE (DANC)
BAL1 INTRODUCTION TO BALLROOM DANCE
.5-2 UNITS

Course will focus on the basic techniques, terminology and principles of ballroom and social dance. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

BLT1 INTRODUCTION TO BALLET
.5-2 UNITS

Designed to introduce the student to basic exercises, positions, and movement in ballet dance. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

HAT1 BEGINNING HAITIAN DANCE
.5 - 2 UNITS

The course is designed to introduce students to beginning Haitian Dance. The history, basic footwork and dances will be covered. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

HAT2 INTERMEDIATE HAITIAN DANCE
.5 - 2 UNITS

Designed to further the skills and knowledge of the beginning Haitian dancer. Student will be introduced to a greater variety of floor progressions, bar work and choreography in Haitian dance. Prerequisite: DANC HAT1 (completed with a grade of "C" or higher). 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

HIP1 INTRODUCTION TO HIP-HOP DANCE
.5-2 UNITS

A dance class designed to teach students the fundamental dance steps and techniques of Beginning Hip-hop dance. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

HIP2 ADVANCED BEGINNING HIP-HOP DANCE
.5-2 UNITS

Advanced beginning Hip-hop Dance choreography, alignment, floor patterns, with group interactions and projects. Prerequisite: PEAC HIP1 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

HIP3 INTERMEDIATE HIP-HOP DANCE
.5-2 UNITS

Intermediate Hip-hop Dance techniques, steps, routines and group presentations. Prerequisite: PEAC HIP2 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

HIP4 ADVANCED HIP-HOP DANCE
.5-2 UNITS

Advanced hip-hop dance techniques, patterns which include floor breaking, rhythmic and direction changes. Choreography and improvisational group projects/presentations which include exploring rhythmic structures of hip-hop dance. Dance Performance will be emphasized. Prerequisite: PEAC HIP2 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

**JD1 INTRODUCTION TO JAZZ DANCE .5-2 UNITS**

Introduction to Beginning Jazz Dance terminology, techniques, characteristics and dance routines. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

JD2 ADVANCED BEGINNING JAZZ DANCE .5-2 UNITS

Advanced Beginning Jazz Dance techniques, terminology, routines, choreography and improvisations. Prerequisite: PEAC JD1 (completed with a grade of "C" or higher). 2-6 hours Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

JD3 INTERMEDIATE JAZZ DANCE .5-2 UNITS

Intermediate Jazz Dance warm ups, terminology, characteristics, group choreography and improvisation. Comparison of different styles of Jazz Dance. Prerequisite: PEAC JD2 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

JD4 ADVANCED JAZZ DANCE .5-2 UNITS

Advanced Jazz Dance technique, terminology and choreography. Advanced warm up and across the floor movement. Emphasis on group choreography and student performance. Prerequisite: PEAC JD3 (completed with a grade of "C" or higher) 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

HEALTHY AGING OLDER ADULTS (HEAG)

FN50 FUNCTIONAL MOVEMENT AND BALANCE FOR THE MATURE ADULT NON-CREDIT

(May be repeated 3 times)

Develops balance and functional movement for the mature adult (50+years in age). Course will include nutritional information to prevent hypertension and diabetes. Course is moderate to hard in intensity. Prior to enrollment student should get physician's OK to exercise. 2-6 hours laboratory.

SW50 - CARDIOVASCULAR SWIMMING FOR THE MATURE ADULT NON-CREDIT

May be repeated 3 times

Designed to improve cardiovascular fitness in the older adult. Emphasis on swimming with the aerobic target heart rate training zone. Instruction will also address personal nutrition, hypertension and the prevention of adult type II diabetes.

WE50 RESISTANCE TRAINING FOR BONE DENSITY FOR THE MATURE ADULT NON-CREDIT

(May be repeated 3 times)

Designed to teach the basic elements of resistance training and wellness to older adult. Technique and nutritional information to improve bone density and metabolism will be emphasized. 2-3 hours laboratory.

KINESIOLOGY (KINE)**1 INTRODUCTION TO KINESIOLOGY AND PHYSICAL EDUCATION 3 UNITS**

This is an introductory course that surveys various subdisciplines related to the study of human movement. Students will examine the areas of history, sociology, biomechanics, physiology, and psychology, as they relate to the sport and exercise environment. (May not receive credit if PHED 20 has been completed.) 3 hours. Transfer: CSU; UC; C-ID KIN 100.

2 INTRODUCTION TO ATHLETIC TRAINING 4 UNITS

Introduces the student to basic taping skills, therapeutic modalities, and rehabilitation principles associated with the field of athletic training. Strong emphasis on injury prevention, recognition and management. Designed to be preparatory for a career in athletic training. (May not receive credit if PHED 17 has been completed.) 3 hours lecture, 3 hours laboratory. Transfer: CSU UC.

3 INTRODUCTION TO PRINCIPLES OF COACHING INTERSCHOLASTIC SPORTS: BEYOND THE BASICS 4 UNITS

Coaching beyond the basics: ethics, physical training theories and management principles. Research into successful leadership principles, skills and philosophies. Coaching effectiveness and team building dynamics. Upon successful completion of the course, the student will be able to take the California and National High School Coaching certification examination. (May not receive credit if PHED 61 has been completed.) 3 hours. Transfer: CSU; UC.

3BB INTRODUCTION TO PRINCIPLES OF COACHING BASEBALL 2 UNITS

Theory, principles, training concepts and ethics of coaching with emphasis on the fundamentals and techniques of coaching the sport of baseball. 2 hours. (May not receive credit if PHED 27 has been completed.) Transfer: CSU; UC.

3FT INTRODUCTION TO COACHING FOOTBALL 2 UNITS

This course is designed to teach the basics of coaching football. Basic offensive and defensive drills and teamwork will be taught. Individual position skills and development will be introduced along with team training and structure. 2 hours. Transfer: CSU; UC.

3SF INTRODUCTION TO COACHING SOFTBALL 2 UNITS

Designed to teach the basics of coaching Softball. Individual skill development, along with team development and dynamics, will be thoroughly covered. 2 hours. Transfer: CSU; UC.

3SO INTRODUCTION TO COACHING SOCCER 2 UNITS

Designed to teach the basics of coaching Soccer. Individual skill development, along with team development and dynamics, will be thoroughly covered. 2 hours. Transfer: CSU; UC.



3TK INTRODUCTION TO COACHING TRACK & FIELD 2 UNITS

Designed to teach the basics of coaching track and field. Methods, drills and skill development of all the events in track will be covered. 2 hours. Transfer: CSU; UC.

4 INTRODUCTION TO SPORTS MANAGEMENT 3 UNITS

Introduction into the field of sports management. Career opportunities, human resource management, leadership, strategic planning, teamwork, ethics and values, marketing and advertising, finance, managing facilities, sports and the law, economics of sport and community impact. 3 hours. (May not receive credit if PHED 60 has been completed.) Transfer: CSU.

5 INTRODUCTION TO THE COMPONENTS OF PHYSICAL FITNESS - THE HUMAN BODY 3 UNITS

The impact of physical activity, nutrition and dietary principles upon the body. Basic exercise physiology, anatomy, kinesiology, exercise testing, body mechanics and body composition testing. 3 hours. (May not receive credit if PHED 28 has been completed.) Transfer: CSU; UC.

6 PERFORMANCE ENHANCEMENT THRU MENTAL TRAINING 3 UNITS

The study and development of the concepts and theories associated with maximizing performance, from the perspective of sport as well as life, emphasizing the mental skills and strategies for stress control, visualization, goal setting and concentration. 3 hours. (May not receive credit if PHED 15 has been completed.) Transfer: CSU; UC; CSU/GE.

7 INTRODUCTION TO LIFETIME FITNESS 3 UNITS

Designed for students to take control of their personal health and cope with the changes that will occur in their physical abilities as they age. Includes skills, techniques and information to help adapt activity through the aging process with emphasis on physical activity appropriate for age group. 3 hours. (May not receive credit if PHED 59 has been completed.) Transfer: CSU; UC.

8 INTRODUCTION TO SPORT IN CONTEMPORARY SOCIETY 3 UNITS

An introduction into the phenomenon of sport in society, including cultural stratification, race, gender, education, economics, politics and the mass media. 3 hours. (May not receive credit if PHED 8 has been completed.) Transfer: CSU; UC.

10 NUTRITION FOR FITNESS AND FAT LOSS 3 UNITS

Study the role that nutrition and activity play in developing fitness and lowering body fat. Major concepts of fitness and nutrition will be presented along with training utilizing a heart rate monitor. Students will learn to assess current fitness levels and design a personal fitness and nutritional plan. 3 hours. (May not receive credit if PHED 57 has been completed.) Transfer: CSU; UC; CSU/GE.

11 NUTRITION FOR SPORT AND HUMAN PERFORMANCE 3 UNITS

An investigation into the role nutrition plays in sports and human achievement. Determination of optimum hydration and nutrient intake in relation to activity. 3 hours. (May not receive credit if PHED 58 has been completed.) Transfer: CSU; UC; CSU/GE.

12BB INTRODUCTION TO BASEBALL OFFICIATING 2 UNITS

This course will introduce the student to the basic rules and mechanics of officiating baseball. Students will learn the rules and basics of becoming a baseball umpire. 1 hour lecture, 3 hours laboratory. Transfer: CSU; UC.

12BK INTRODUCTION TO BASKETBALL OFFICIATING 2 UNITS

Designed to teach the Fundamentals of Basketball Officiating, National Federation and NCAA Rules, Responsibilities, Court Mechanics and Concepts of Officiating with Two Person and Three Person Techniques. 1 hour lecture, 3 hours laboratory. Transfer: CSU; UC.

12FT INTRODUCTION TO FOOTBALL OFFICIATING 2 UNITS

This course is designed to teach the Fundamentals of Football Officiating, National Federation Rules, Responsibilities, On the Field Mechanics & Concepts of Officiating high school football. 1 hour lecture, 3 hours laboratory. Transfer: CSU; UC.

12TK INTRODUCTION TO TRACK & FIELD OFFICIATING 2 UNITS

This course will introduce the student to the basics of hosting and officiating a track and field competition. 1 hour lecture, 3 hours laboratory. Transfer: CSU; UC.

13 AMERICAN RED CROSS LIFEGUARDING 2 UNITS

Skills and knowledge needed to prevent and respond to aquatic emergencies. Upon successful completion of this course students will receive American Red Cross certification in Lifeguard Training, CPR for the Professional Rescuer, and First Aid. Prerequisite: PEAC SWM1 (completed with a grade of "C" or higher) Demonstrate the ability to swim continuously 100 yards freestyle, 100 yards breaststroke, 100 yards freestyle and swim 20 yards, surface dive to 9 feet, retrieve 10 lb. brick, swim back to start, place brick on the side of the pool, exit the pool in 100 seconds or less. 1 hour lecture, 3 hours laboratory. (May not receive credit if PHED 13 has been completed.) Transfer: CSU; UC.

13R AMERICAN RED CROSS LIFEGUARD TRAINING REVIEW 1.5 UNITS

To review the skills and knowledge needed by lifeguards to prevent and respond to aquatic emergencies. Upon successful completion of this course students will receive American Red Cross certification in Lifeguard Training, CPR for the Professional Rescuer, and First Aid. Prerequisite: KINE 13 (completed with a grade of "C" or higher). 1 hour lecture, 2 hours laboratory. (May not receive credit if PHED 13R has been completed.) Transfer: CSU; UC.



14 INTRODUCTION TO HEALTH AND FITNESS FOR YOUR DISABILITY 3 UNITS

Application of current health teachings to individuals and life. Physiological, psychological, and social perspectives of health. Emphasis on knowledge, attitudes and behaviors that will contribute to a healthy individual. May not receive credit if Physical Education 18 has been completed. . Transfer: CSU, UC, CSU GE.

15 INTRODUCTION TO PERSONAL FITNESS TRAINING 3 UNITS

Includes the areas of physical activity and health, fitness evaluation, exercise prescription, exercise for special populations, exercise programming and the fundamentals of functional anatomy and exercise physiology as they pertain to personal training. Upon successful completion of the course students will be eligible for the National Certification Board Exam to attain certification in Personal Training through the American Council on Exercise. May not receive credit if Physical Education 62 has been completed. Transfer: CSU.

16 THEORY AND TECHNIQUES OF OFFENSIVE FOOTBALL 2 UNITS

Analysis and examination of various approaches to offensive intercollegiate football. Includes all aspects of offensive football; punt return, point after touchdown and field goal kicking. (May not receive credit if PHED 25 has been completed.) 2 hours. Transfer: CSU; UC.

17 THEORY AND TECHNIQUE OF DEFENSIVE FOOTBALL 2 UNITS

Analysis and examination of various approaches to defensive intercollegiate football. Includes all aspects of defensive football; kick off, punt rush, punt return and P.A.T./FG rush. (May not receive credit if PHED 27 has been completed.) 2 hours. Transfer: CSU; UC.

18 INTRODUCTION TO CPR AND FIRST AID FOR COACHES 2 UNITS

Survey of non-emergency procedures and techniques used in the field including basic life support CPR and first aid designed to teach lifesaving skills to be used in an athletic setting. 1 hour lecture, 3 hours laboratory. Transfer: CSU; UC.

19 FIT FOR DUTY: HEALTH AND FITNESS FOR LAW ENFORCEMENT 2 UNITS

Designed for individuals who intend to enter the law enforcement field. An introduction to fitness, stress, psychological health and wellness are examined as they relate to occupations within law enforcement. 1 hour lecture, 3 hours laboratory. Transfer: CSU; CSU/GE.

21 GROUP FITNESS INSTRUCTOR 3 UNITS

This course is an introduction to Group Fitness Instructor certification. Upon successful completion of the course students will have the opportunity to take the national certification exam in Group Fitness with the American Council on Exercise. 3 hours. Transfer: CSU.

22 INTRODUCTION TO HEALTH COACHING 3 UNITS

In combination with the American Council on Exercise this course is designed to give the student the most current, complete picture of instructional techniques and professional responsibilities that ACE certified Health Coaches need to teach their clients. Upon successful completion of this course the student can elect to take the certification exam through the American Council on Exercise. 3 hours. Transfer: CSU.

23 TECHNIQUES OF STRENGTH TRAINING INSTRUCTION 3 UNITS

This course covers how to teach a variety of strength and resistance training activities. It studies strength training sequences, theories on the development of strength, periodization, equipment, safety factors and anatomy and physiology as they apply to strength training and development. 3 hours. Transfer: UC; CSU.

24 HEALTH AND FITNESS FOR THE FIRE SERVICE 3 UNITS

Health, wellness and physical fitness are examined from a global and occupational viewpoint. Emphasis on the Seven Dimensions of Wellness from a Fire Service perspective. An introduction to concepts of lifetime fitness and wellness with an emphasis on physical fitness and lifestyle choices. May not receive credit if FT 7 has been completed.

ASSE PHYSICAL FITNESS ASSESSMENTS 1 UNIT

Students will learn how to perform Physical Fitness Assessments on body composition, flexibility, muscular strength and endurance. Upon assessing fitness status students will develop an exercise prescription to maintain or improve their physical fitness level. (May not receive credit if PHED 6 has been completed.) 1 hour. Transfer: CSU; UC.

BBDT THEORY AND TECHNIQUE OF DEFENSIVE BASEBALL 2 UNITS

Students will learn how to improve and perform advanced sport-specific and skill specific fundamentals, training and conditioning for intercollegiate competition. Training will include, but not be limited to, defensive baseball specific fundamentals and skills, techniques and sport specific conditioning/training; i.e., fielding, throwing, infield and outfield play, pitching, catching. This is a course for pre-season Intercollegiate Baseball. The student will have the opportunity to develop through a training program designed for baseball at the intercollegiate level. An extensive baseball background and previous experience is needed for success in this class. Prerequisite: High level of baseball skills combined with an extensive baseball background. The instructor will evaluate the student's skill level. 2 hours. Transfer: CSU; UC.

BBOT THEORY AND TECHNIQUE OF OFFENSIVE BASEBALL 2 UNITS

Designed to teach advanced fundamentals of hitting and the offensive side of baseball. Training will include, but not be limited to, offensive baseball specific fundamentals and skills, techniques and sport specific conditioning/training; i.e., hitting, base running and the short game. Prerequisite: High level of baseball skills combined with an extensive baseball background. The instructor will evaluate the student's skill level. 2 hours. Transfer: CSU; UC.

CSA COLLEGE SUCCESS FOR ATHLETES 1 UNIT

Aiding the student-athlete in developing realistic expectations of college, explore academic programs, and understand what is necessary to succeed in college while competing in an intercollegiate sport. Rules and regulations of the Commission on Athletics (COA), National Collegiate Athletic Association (NCAA), and the National Association of Intercollegiate Athletics (NAIA) will be defined. Eligibility and transferring to a four-year institution will be explored. 1 hour lecture. Transfer: CSU.

PDBB PRINCIPLES OF DEFENSIVE BASEBALL 2 UNITS

Defensive theory and principles as related to baseball. This course will include defensive baseball fundamentals, techniques and sport specific conditioning/training; i.e., fielding, throwing, infield and outfield play, pitching, catching. Strongly Recommended: High level of baseball skills combined with an extensive baseball background. This class is not for the beginning baseball player. 2 hours. Transfer: CSU; UC.

POBB PRINCIPLES OF OFFENSIVE BASEBALL 2 UNITS

Designed to present theory and principles of offensive baseball. When to play long ball, when to play the short game are just a few of the concepts to be covered. Instruction will include, but not be limited to, offensive baseball specific fundamentals and skills, techniques and sport specific conditioning/training; i.e., hitting, base running and the short game. Strongly Recommended: High level of baseball skills combined with an extensive baseball background. The instructor will evaluate the student's skill level. 2 hours. Transfer: CSU.

WSI PHYSICAL FITNESS ASSESSMENTS 1.5 UNITS

To train swimming instructor candidates to teach American Red Cross Swimming and Water Safety courses. Provides Water Safety certification. Prerequisite: Seventeen years of age. Must pass a swim test at the first class meeting. (May not receive credit if PHED 14 has been completed.) 2 hours lecture, 3 hours laboratory. Transfer: CSU; UC.

PHYSICAL EDUCATION ACTIVITY (PEAC)**5K1 TRAINING FOR YOUR FIRST 5K (3.1 MILES) .5-2 UNITS**

Designed for students who want to train and complete their first 5K (3.1 miles). In this course students will learn how to prepare physically for this event plus nutritional guidelines for a healthier life. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

ABBS ADVANCED BASEBALL SKILLS .5-2 UNITS

This is an advanced sport specific course for students to increase their individual skills in the sport of baseball. This course is not for beginning baseball enthusiasts. Prerequisite: Students must possess advanced baseball skills. Students should be enrolled in ATHBB13. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

AKD1 AIKIDO 1 .5-2 UNITS

Designed to teach the beginning concepts and philosophy in the art of Aikido. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

AQA1 AQUA AEROBICS .5-2 UNITS

A conditioning workout that emphasizes cardiovascular endurance activities in the pool. After sufficient warm-up, water exercises that develop increased aerobic efficiency will be performed by students. Student need not be a swimmer to participate in this class. Students will learn about training and prevention of metabolic syndrome through diet and exercise in this course. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

AQDW AQUA AEROBICS-DEEP WATER 2 .5-2 UNITS

A conditioning workout that emphasizes cardiovascular endurance activities in the deep end of the pool. After sufficient warm-up, water exercises that develop increased aerobic efficiency will be performed by students. Students must be able to tread water to participate in this class. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

ARH1 ARCHERY 1 .5-2 UNITS

This beginning course in archery has an emphasis on safety, knowledge, and basic skill development in a variety of beginning archery activities. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

ARH2 INTERMEDIATE ARCHERY .5-2 UNITS

Designed to allow archers who have completed beginning archery (ARH1) an arena to enhance their archery knowledge and skill level. Prerequisite: PEACARH1 (completed with a grade of "P" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

ARH3 ADVANCED ARCHERY .5-2 UNITS

Advanced instruction in Archery and bowmanship. Prerequisite: PEAC ARH2 (completed with a grade of "P" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

ARH4 TOURNAMENT ARCHERY .5-2 UNITS

Designed to allow the advanced archer to hone their competitive shooting skills in a tournament setting. Prerequisite: PEAC ARH3 (completed with a grade of "C" or higher). 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

BAB1 BAY AREA BIKING .5-2 UNITS

This course is designed to teach the basics of safe and healthy biking. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

BAD1 INTRODUCTION TO BADMINTON .5-2 UNITS

Basic fundamental badminton techniques and strategies will be covered. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

**BAD2 INTERMEDIATE BADMINTON .5-2 UNITS**

This course is for students who have played Badminton before. Students should already know how to rally, and have knowledge of the rules. This course is not for beginners. Prerequisite: PEAC BAD1. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

BAD3 ADVANCED BADMINTON .5-2 UNITS

Theory and practice of advanced badminton that includes advanced techniques and tactics. This will include drills, practice, and tournament play. Fitness drills and conditioning will be incorporated into the class. Prerequisite: PEAC BAD2 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

BAD4 TOURNAMENT BADMINTON .5-2 UNITS

Designed for students who wish to compete in badminton tournaments. The theory and practice of advanced badminton will be covered. This will include drills, practice, fitness conditioning, and tournament play. Prerequisite: PEAC BAD3. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

BBSD BASEBALL SPECIFIC SKILL DEVELOPMENT .5-2 UNITS

This course is designed to increase individual skills in the sport of Baseball. An extensive baseball background and previous experience is needed for success in this class. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

BSK1 INTRODUCTION TO BASKETBALL .5-2 UNITS

Designed to teach to the basic skills and mechanics needed to successfully play the game of basketball. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

BSK2 INTERMEDIATE BASKETBALL .5-2 UNITS

Designed to teach to the intermediate skills of basketball. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

BSK3 ADVANCED BASKETBALL .5-2 UNITS

Designed to teach advanced skills of basketball. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

BSK4 PRE-COMPETITIVE BASKETBALL .5-2 UNITS

Designed to teach pre-competitive basketball. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

BSM1 INTRODUCTION TO MEN'S BUBBLE SOCCER .5-2 UNITS

Designed to introduce men to the rules and strategies of the fast and popular sport of bubble soccer. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

BSW1 INTRODUCTION TO WOMEN'S BUBBLE SOCCER .5-2 UNITS

Designed to introduce women to the rules and strategies of the fast and popular sport of bubble soccer. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

BTC1 BEGINNING BOOT CAMP .5-2 UNITS

A full body conditioning class that will utilize equipment and facilities available to the general public to create an intense workout. Training in all five of the areas of fitness will be developed. Students will learn about training and prevention of metabolic syndrome through diet and exercise. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

BTC2 INTERMEDIATE BOOT CAMP .5-2 UNITS

This is the second in a series of Boot Camp Training for people who want to lose fat and get fit. Prerequisite: PEAC BTC1 (completed with a grade of "P" or higher). Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

BTC3 ADVANCED BOOT CAMP .5-2 UNITS

The third in a series of boot camp training classes for the person who is serious about getting fit. The course will use a variety of methods to challenge your body and take it to the next level of fitness. Not for the faint at heart. Prerequisite: PEAC BTC2 (completed with a grade of "P" or higher). Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

CHR1 BEGINNING CHEER .5-2 UNITS

Designed for students who wish to actively participate at Chabot College events in a cheer leading capacity. In addition to learning how to cheer at events, students will learn how to promote events using a variety of modes. Strongly Recommended: Student must be physically fit and willing to dedicate countless hours outside of the assigned class time to Chabot College events. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

CHR2 INTERMEDIATE CHEER LEADING .5-2 UNITS

Designed to further the skills of cheer leading and event entertainment. Students will learn how to invoke crowd participation at sporting events. Prerequisite: PEAC CHR1 (completed with a grade of "C" or higher). 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

CYC1 INTRODUCTION TO SPIN CYCLING .5-2 UNITS

This course uses group stationary cycling training to develop cardiovascular fitness. Students will also utilize various strength and flexibility modalities, mental imagery, visualization, nutrition concepts, as well as assessments of their cardiovascular fitness training level through heart rate monitoring and resting heart rate values. Students will learn about training and prevention of metabolic syndrome through diet and exercise. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).



CYC2 INTERMEDIATE INDOOR SPIN CYCLING .5-2 UNITS

An intermediate group spin class to develop cardiovascular fitness. Students will also utilize various strength and flexibility activities, visualization, nutrition concepts, as well as assessments of their cardiovascular fitness training level through heart rate monitoring. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

DIS1 INTRODUCTION TO DISC SPORTS .5-2 UNITS

Introductory course with instruction in various sport activities associated with a flying disc. Class will include instruction in basic throws and catches, along with instruction in the rules and participation in ultimate, double disc court and disc golf. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

DIS2 INTERMEDIATE DISC .5-2 UNITS

Introductory course with instruction in various sport activities associated with a flying disc. Class will include instruction in basic throws and catches, along with instruction in the rules and participation in ultimate, double disc court and disc golf. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

DIS3 ADVANCED ULTIMATE .5-2 UNITS

This class is designed for the advanced ultimate disc player. Advanced skills and strategies in Ultimate disc competition will be covered. Prerequisite: PEAC DIS2 (completed with a grade of "C" or higher). Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply)

DMP PREVENTION OF TYPE 2 DIABETES THROUGH NUTRITION AND EXERCISE 2 UNITS

Designed to lower the risk factors of metabolic syndrome and adult type II diabetes in young adults. This course will include both lecture and exercise activities aimed at lowering body fat, elevated blood pressure and elevated blood sugar levels. 1 hour lecture, 3 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

DOD1 INTRODUCTION TO DODGE BALL .5-2 UNITS

Designed to introduce safety, rules, strategy and principles of tournament dodge ball. This course will enhance physical fitness in a competitive and social arena. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

DWA1 AQUA AEROBICS-DEEP WATER 1 .5-2 UNITS

This course is designed for students who would like to achieve higher fitness levels utilizing deep water aerobics. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

FFL1 FLAG FOOTBALL LEAGUE .5-2 UNITS

This course is designed to teach organized flag football. Basic play design and defensive schemes will be taught in a league structure. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

FFR1 FITNESS FOR THE FIRST RESPONDER .5-2 UNITS INTRODUCTION

Designed to support those students in the emergency response disciplines. An introduction to physical aspects of first response including aerobic and anaerobic training, core, strength, and strength endurance work. Injury prevention, shift work considerations and basic nutrition will also be addressed. 2-8 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

FFR2 FITNESS FOR THE FIRST RESPONDER .5-2 UNITS INTERMEDIATE

Designed to support students in the emergency response disciplines. An intermediate approach to the physical aspects of first response including aerobic, anaerobic, strength and core training. Back care, injury prevention and shift work nutrition strategies will also be addressed. Prerequisite: PEAC FFR1 (completed with a grade of "C" or higher). Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

FFR3 FITNESS FOR THE FIRST RESPONDER .5-2 UNITS ADVANCED

Designed to support those students in the emergency response disciplines. An advanced approach to the aspects of physical training and vocational skills appropriate to first response. Aerobic, anaerobic, core and strength training at an advanced level. Shift work survival strategies also addressed. Prerequisite: PEAC FFR2 (completed with a grade of "C" or higher). Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

FFT INTRODUCTION TO FIRE FITNESS TRAINING 1 UNIT

This course is designed to prepare the Fire Technology student for the physical rigors of FT 89 and the Chabot Fire Academy. Course sessions will address aspects of physical training, ladder and hydrant operations and knots utilized in the Fire Service. May not receive credit if Fire Technology 88A has been completed. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

FFT1 INTERMEDIATE FIRE FITNESS TRAINING 1 UNIT

Designed to raise the fitness level of future firefighters Prerequisite: KINE 20. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

FFT2 ADVANCED FIRE FITNESS TRAINING 1 UNIT

This course is designed to increase skill and fitness levels developed in PEAC FFT1 or FT 88B, intermediate fire fitness training. May not receive credit if FT 88C has been completed. Prerequisite: PEAC FFT1 or FT 88B (each completed with a grade of "C" or higher). Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

FFT3 TACTICAL FITNESS FOR FIRE FIGHTERS .5-2 UNITS

Designed to enhance the fitness level of advanced fire fighters. Prerequisite: PEAC FFT2 (completed with a grade of "C" or higher) 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

**FIT1 FITNESS FOR EVERYONE****.5-2 UNITS**

Designed to provide the students whose schedules do not allow enrollment in the traditional class settings. Students may participate in these areas following a required orientation in each desired area of participation: Fitness, Weight Training and Aquatics. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

FIT2 INTERMEDIATE FITNESS FOR EVERYONE**.5-2 UNITS**

Designed for the student who wants to continue to improve their overall fitness level but cannot attend a traditional class setting due to a dynamic personal schedule. Prerequisite: PEAC FIT1 (completed with a grade of "P" or higher). 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

FLW1 PHYSICAL FITNESS FOR LAW ENFORCEMENT**.5-2 UNITS**

This course is designed to prepare the administration of justice student for pre-employment physical ability testing, physical aspects of the Police Academy, and the maintenance of fitness and wellness as an incumbent. Course sessions will address aerobic and strength training, muscular endurance, nutrition and weight management, agility, coordination, balance and flexibility. An emphasis will be placed on injury prevention and back care. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

FLW2 INTERMEDIATE FITNESS FOR LAW ENFORCEMENT**.5-2 UNITS**

Designed to develop specific fitness levels for law enforcement professionals Prerequisite: PEAC FLW1 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

FLW3 ADVANCED FITNESS FOR LAW ENFORCEMENT**.5-2 UNITS**

Designed to teach advanced levels of fitness specific to law enforcement. Prerequisite: PEAC FLW2 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

FLW4 TACTICAL FITNESS FOR LAW ENFORCEMENT**.5-2 UNITS**

Physical training for students or incumbents who have successfully completed FLW 3, advanced training for Law Enforcement. Prerequisite: PEAC FLW3 (completed with a grade of "P" or higher) 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

FLYF INTRODUCTION TO FLY FISHING**.5-2 UNITS**

This course is designed to teach the beginner the basics in fly casting and fishing. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

FTS1 FUTSAL**.5-2 UNITS**

Indoor Futsal is a fast paced form of indoor soccer that uses a different ball and places a large emphasis on technical skill and ability in situations of high pressure, and is subsequently an excellent training ground for developing foot skills that can be translated into the 11-a-side format of the game. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

FTS2 INTERMEDIATE FUTSAL**.5-2 UNITS**

Designed to teach intermediate skills and strategies of futsal in a fun and semi-competitive atmosphere. Prerequisite: PEAC FTS1 (completed with a grade of "P" or higher). 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

FTS3 ADVANCED FUTSAL**.5-2 UNITS**

Designed to teach and develop the advanced skills and strategies needed to play futsal at a highly competitive level. Prerequisite: PEAC FTS2 (completed with a grade of "P" or higher). 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

FTS4 COMPETITIVE FUTSAL**.5-2 UNITS**

Designed for the student who has successfully completed the first three Futsal courses and is ready for competitive play. Prerequisite: PEAC FTS3 (completed with a grade of "C" or higher). Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

FUN1 BEGINNING FUNCTIONAL TRAINING FOR FAT LOSS**.5-2 UNITS**

This beginning course will develop strength and fat loss through a functional strength training program. Course is moderate to hard in intensity. Students will learn about training and prevention of metabolic syndrome through diet and exercise. Strongly Recommended: Personal physician's approval to exercise vigorously. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

FUN2 INTERMEDIATE FUNCTIONAL TRAINING FOR FAT LOSS**.5-2 UNITS**

Designed to challenge students who have successfully completed Beginning Functional Training. Course is very hard in intensity. Prerequisite: PEAC FUN1. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

FUN3 ADVANCED FUNCTIONAL TRAINING FOR FAT LOSS**.5-2 UNITS**

Designed to challenge students who have successfully completed Intermediate Functional Training or FUN 2. Course is very hard in intensity. Prerequisite: PEAC FUN2 (completed with a grade of "P" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).



FUN4 FAT LOSS THROUGH FUNCTIONAL TRAINING .5-2 UNITS

Designed for students who would like to lower the percentage of body fat through functional training. Prerequisite: PEAC FUN3 (completed with a grade of "P" or higher). 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

GFTE GET FIT WITH TECHNOLOGY .5-2 UNITS

Designed to develop fitness and well-being in a flexible manner utilizing technology as a guide in the process. Students will utilize global positioning technology along with online learning to develop and implement a solid personal cardiovascular fitness and wellness program. Strong computer skills and the access to a handheld global positioning device are required. 2-6 hours. Transfer: CSU; CSU/GE. (UC credit/unit limits may apply).

GTB1 BEGINNING TOURNAMENT GOLF .5-2 UNITS

Designed to give instruction and practice in the fundamental skills of golf. Skills, rules, etiquette, safety and golf course layouts will be covered. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

HEAR BASIC HEART RATE TRAINING: FITNESS TRAINING UTILIZING A HEART RATE MONITOR .5-2 UNITS

Improvement of cardiovascular fitness through the use of a heart rate monitor. Use of a heart rate monitor, target heart rate training zones and adult type II diabetes prevention will be covered. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

HER1 BASIC HEART RATE TRAINING: FITNESS TRAINING UTILIZING A HEART RATE MONITOR .5-2 UNITS

Improvement of cardiovascular fitness through the use of a heart rate monitor. Use of a heart rate monitor, target heart rate training zones and adult type II diabetes prevention will be covered. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE (UC credit/unit limits may apply)..

HER2 INTERMEDIATE HEART RATE TRAINING .5-2 UNITS

Improvement of overall fitness utilizing a heart rate monitor to enhance the training process. Prerequisite: PEAC HER1 (completed with a grade of "C" or higher). 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

HM1 TRAINING FOR YOUR FIRST HALF MARATHON .5-2 UNITS

Designed for runners who want to complete their first half marathon. Course will focus on developing aerobic capacity through a variety of training methods. Strongly Recommended: PEAC WLK1. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

HTA1 HIPS, THIGHS AND ABS WORKOUT .5-2 UNITS

This course is designed to reduce, tone and strengthen the abdominal areas and the buttocks and thigh region through exercises. Proper techniques for a variety of exercises for specific muscle groups will be presented. 2-6 hours Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

HTA2 INTERMEDIATE HIPS, THIGHS AND ABS .5-2 UNITS

Strenuous exercises to tone, strengthen and reduce the abdominal, buttocks and thigh regions. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

HTA3 ADVANCED HIPS, THIGHS AND ABS WORKOUT .5-2 UNITS

This an advanced course designed to strengthen, reduce and tone the "core" region of the body through various exercises and techniques. The core region includes: hips, thighs and buttocks; abdominals and obliques; and lower back. A variety of strength and flexibility exercises for these specific muscle body groups will be presented. Prerequisite: PEAC HTA2 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

HTA4 EXTREME HIPS, THIGHS AND ABS WORKOUT .5-2 UNITS

This course is designed to provide an extreme high intensity interval functional workout for the whole body. Prerequisite: PEAC HTA3 (completed with a grade of "C" or higher). 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

INSC SOCCER/FUTSOL .5-2 UNITS

Emphasizes the fundamental skills and strategies of futsal. Offensive and defensive positions and basic team strategies will be addressed. No previous futsal experience is necessary. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

ITC1 INTEGRATED CORE FITNESS .5-2 UNITS

Integrated Core Fitness is designed to use a plethora of exercises in a high intensity interval training system to reduce belly fat, tone the body and improve cardiovascular endurance. Strongly Recommended: Physician's approval to begin a strenuous exercise program. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

ITC2 INTERMEDIATE INTEGRATED CORE FITNESS .5-2 UNITS

Designed for students who want to accomplish their goals in strength, fitness and body fat loss through high intensity interval training. Prerequisite: PEAC ITC1 (completed with a grade of "C" or higher). Strongly Recommended: Physician's approval to participate in high intensity exercise. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).



ITC 3 ADVANCED INTEGRATED CORE FITNESS .5-2 UNITS

Designed for students who want to improve their fitness and lose body fat through high intensity training and a total body workout. Prerequisite: PEAC ITC2 (completed with a grade of "C" or higher). 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

JUD1 BEGINNING JUDO .5-2 UNITS

Designed to teach beginning judo. Basic history, philosophy, techniques and safety aspects of judo will be covered. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

JUD2 INTERMEDIATE JUDO .5-2 UNITS

Students should have completed Beginning Judo or have had previous judo experience. Prerequisite: PEAC JUD1 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

JUD3 ADVANCED JUDO .5-2 UNITS

Advanced judo course. Students should have completed intermediate judo with a passing grade prior to enrolling in this course. Prerequisite: PEAC JUD2 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

**LSF1 INTRODUCTORY LAP SWIMMING FOR .5-2 UNITS
CARDIOVASCULAR FITNESS**

Designed to develop cardiovascular fitness in the accomplished swimmer through aerobic non-stop lap swimming. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

**LSF2 BEGINNING LAP SWIMMING FOR .5-2 UNITS
CARDIOVASCULAR FITNESS**

Designed to develop cardiovascular fitness in the accomplished swimmer and introduce the student to competitive swim training concepts. Prerequisite: PEAC LSF1 (completed with a grade of "C" or higher). Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

**LSF3 INTERMEDIATE LAP SWIMMING FOR .5-2 UNITS
CARDIOVASCULAR FITNESS**

Designed for the Advanced Lap Swimmer to accentuate their cardiovascular fitness as it relates to the competitive swimmer. Introduction to rigorous training of the competitive swimmer. Prerequisite: PEAC LSF2 (completed with a grade of "C" or higher). Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

**LSF4 ADVANCED SWIMMING FOR .5-2 UNITS
CARDIOVASCULAR FITNESS**

Designed for the advanced swimmer who wants to train for competition. Prerequisite: PEAC LSF3 (completed with a grade of "C" or higher). Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

MFT1 INTRODUCTION TO MILITARY FITNESS TRAINING .5-2 UNITS

Designed to introduce and prepare the student for the fitness standards required to pass basic training in the United States Armed Services. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

MFT2 BEGINNING MILITARY FITNESS TRAINING .5-2 UNITS

The second in a series of fitness courses to prepare people who would like to serve in the U.S. Armed Forces. Prerequisite: PEAC MFT1 (completed with a grade of "C" or higher). Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

MFT3 INTERMEDIATE MILITARY FITNESS TRAINING .5-2 UNITS

The third in a series of fitness classes designed to prepare the student for the physical rigors of serving in the U.S. Armed Forces. Prerequisite: PEAC MFT2 (completed with a grade of "C" or higher). Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

MFT4 ADVANCED MILITARY FITNESS TRAINING .5-2 UNITS

The fourth in a series of fitness classes to prepare the student for the rigors of serving in the U.S. Armed Forces. Prerequisite: PEAC MFT3 (completed with a grade of "C" or higher). Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

PIC1 INTRODUCTION TO PICKLE BALL .5-2 UNITS

Pickle Ball is one of the fastest growing court games in America. In this course students will learn the rules of play and develop the skills to play competitive pickle ball. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

PIC2 INTERMEDIATE PICKLE BALL .5-2 UNITS

Designed to further develop the student's skills and strategy in the exciting game of pickle ball. Prerequisite: PEAC PIC1 (completed with a grade of "P" or higher). Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

PIL1 INTRODUCTION TO PILATES .5-2 UNITS

This course will enable the student to participate in Pilates exercise routines for body and mind fitness. Pilates develops a strong core or center of the body through body awareness, good posture and easy, graceful movement while improving flexibility, agility and economy of motion. Students will learn about training and prevention of metabolic syndrome through diet and exercise in this course. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

**PIL2 INTERMEDIATE PILATES .5-2 UNITS**

Pilates develops a strong core or center through body awareness, good posture and easy graceful movement while improving flexibility, agility and economy of motion. Intermediate Pilates will build on the basic principles learned in PIL1. Students will learn about eating to support an active lifestyle as well as principles of total wellness. Prerequisite: PEAC PIL1 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

PIL3 ADVANCED PILATES .5-2 UNITS

This course will enable the student to participate in Pilates exercise routines for body and mind fitness. Pilates develops a strong core or center through body awareness, good posture and easy graceful movement while improving flexibility, agility and economy of motion. Advanced Pilates will build on the basic principles learned in PIL2. Students will learn about eating to support an active lifestyle as well as principles of total wellness. Prerequisite: PEAC PIL2 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

PIL4 FUNCTIONAL PILATES .5-2 UNITS

This course will enable the student to participate in Pilates exercise routines for body and mind fitness. Pilates develops a strong core or center through body awareness, good posture and easy, graceful movement while improving flexibility, agility and economy of motion. Functional Pilates will build on the basic principles learned in PIL3. Students will learn about eating to support an active lifestyle as well as principles of total wellness. Prerequisite: PEAC PIL3 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

PLF1 PLYOMETRICS AND AGILITY TRAINING.5-2 UNITS FOR WOMEN

This course focuses on physical training for women and is designed to help improve performance and minimize the potential for injury. Training will include progressive plyometric techniques, agility drills, flexibility exercises and core strengthening techniques. Health and nutritional issues specific to women will also be addressed. Students will learn about training and prevention of metabolic syndrome through diet and exercise in this course. Strongly Recommended: Previous athletic experience. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

PLF2 INTERMEDIATE PLYOMETRIC AND AGILITY TRAINING FOR WOMEN .5-2 UNITS

Designed for the woman who has completed the beginning plyometric and agility training course to continue to advance her strength levels, skills and ability in power training. Prerequisite: PEAC PLF1 (completed with a grade of "C" or higher). 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

PRTR PERSONAL TRAINING .5-2 UNITS

Designed to give the student an individual training plan and instruction based on their personal needs and level of conditioning. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

SBB1 SPORT-SPECIFIC TRAINING-BASEBALL .5-2 UNITS

Designed to increase an individual's specific skills in the sport of baseball. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

SBB2 INTERMEDIATE SPORT-SPECIFIC TRAINING - BASEBALL .5-2 UNITS

Designed to increase physical conditioning, skill level, and knowledge in the sport of baseball. Individual baseball player to increase their specific physical conditioning, skill/technique level. Students must have experience and a high level of skill to enroll in this course. Prerequisite: PEAC SBB1 (completed with a grade of "C" or higher) 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

SBB3 ADVANCED BASEBALL-SPECIFIC TRAINING .5-2 UNITS

Students will learn resistance and plyometric training methods to dramatically improve bat, leg and throwing speed. Students must have experience in resistance training and a high level of skill in the sport of baseball to enroll in this course. Prerequisite: PEAC SBB2 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

SSB3 ADVANCED TRAINING FOR SOFTBALL .5-2 UNITS

Designed for the female softball player to develop her hitting, throwing and base running skills to the advanced level. High level game strategy will be covered. Prerequisite: PEAC SSB2 (completed with a grade of "C" or higher). 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

SBM1 SPORT-SPECIFIC INDIVIDUAL TRAINING FOR MEN'S BASKETBALL .5-2 UNITS

Designed to provide individual training for the intermediate level to highly competitive level male basketball player. There will be an emphasis on training, skills, basketball strategies. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

SBW1 SPORT-SPECIFIC TRAINING FOR THE FEMALE BASKETBALL PLAYER .5-2 UNITS

Designed to provide individualized training for the intermediate level to highly competitive level female basketball player. There will be an emphasis on individual training and skills in a demanding classroom environment. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

SMLP LAP SWIMMING FOR CARDIOVASCULAR CONDITIONING .5-2 UNITS

Designed to increase cardiovascular conditioning through swimming. Strongly Recommended: Student must be water safe and have ability to complete 200 yards of swimming without interruption. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

**SOC1 INTRODUCTION TO SOCCER .5-2 UNITS**

Emphasizes the fundamental skills and strategies of soccer. This course focuses on rules, etiquette, safety, and soccer skills, such as dribbling, passing, shooting and defending. Offensive and defensive positions and basic team strategies are also addressed. No previous soccer experience is necessary. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

SOC2 INTERMEDIATE SOCCER .5-2 UNITS

This course is designed to give the student an understanding and training in the advanced principles of competitive soccer. Training and skill development will be combined in practice and applied in games situations. Prerequisite: PEAC SOC1 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

SOC3 ADVANCED SOCCER .5-2 UNITS

This course is designed to give the students an advanced understanding of the more complex principles of the game so they can apply them in the game situation. Prerequisite: PEAC SOC2 (completed with a grade of "C" or higher) . 2-6 hours. Transfer: CSU; CSU/GE. (UC credit/unit limits may apply).

SOCL ADVANCED CLUB LEVEL SOCCER .5-2 UNITS

Designed for the student who has aspirations to club level soccer in the local recreational leagues. This course will cover all aspects of beginning to intermediate team play at the recreational level. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

SPM1 SPEED, PLYOMETRIC AND AGILITY TRAINING FOR MEN .5-2 UNITS

Course focuses on the development of speed, agility and plyometric training for men. Training will include speed training, progressive plyometric techniques, agility drills, flexibility exercises and core strengthening techniques. Health and nutritional issues specific to athletics will also be addressed. Strongly Recommended: Previous athletic experience. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

SPM2 INTERMEDIATE PLYOMETRIC AND SPEED TRAINING FOR MEN .5-2 UNITS

Intermediate course on the development of speed and power for men. Training will have a strong emphasis on advanced plyometric training techniques along with speed and agility training. Prerequisite: PEAC SPM1 (completed with a grade of "P" or higher). 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

SSB1 SPORT-SPECIFIC TRAINING FOR SOFTBALL .5-2 UNITS

Designed to increase specific physical conditioning, skill/technique level, and knowledge in the sport of softball. Students must have experience and a high level of skill in softball to enroll in this course. Students will learn about training and prevention of metabolic syndrome through diet and exercise in this course. Strongly Recommended: Extensive experience in softball along with the appropriate skills to play softball at the collegiate level. 2-6 hours. Transfer: CSU; UC; CSU/GE.

SSB2 INTERMEDIATE SPORT SPECIFIC TRAINING FOR SOFTBALL .5-2 UNITS

Designed to improve female softball players knowledge and skills to the intermediate level of play. Prerequisite: PEAC SSB1 (completed with a grade of "C" or higher). 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

SSCC SPORT-SPECIFIC TRAINING CROSS COUNTRY/DISTANCE RUN .5-2 UNITS

This course is designed to provide sport-specific training in track and cross country. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

SSTK TRACK AND FIELD SKILLS .5-2 UNITS

Designed to teach, analyze techniques and develop training programs in the sport of track and field. Students will acquire a thorough working knowledge of the rules of all the events within the sport of track and field. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

STP1 INTRODUCTION TO CARDIO-STEP .5-2 UNITS

Designed to improve cardio-respiratory fitness utilizing a variety of choreographed and non-choreographed movement patterns. Proper stepping techniques, coinciding and non-coinciding arm and leg patterns, floor exercises and mat work, light hand weights with stretching, will be incorporated. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

STP2 INTERMEDIATE CARDIO-STEP .5-2 UNITS

Designed to develop strength and cardiovascular fitness through an intermediate level of stepping routines. Prerequisite: PEAC STP1. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

SWM1 BEGINNING SWIMMING .5-2 UNITS

Designed to teach proficiency in the basic strokes of swimming. No prior knowledge or skill in swimming is needed to join this course. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

SWM2 INTERMEDIATE SWIMMING .5-2 UNITS

Designed for students who have completed beginning swimming (SWM1). Intermediate stroke development will be presented in this course. Prerequisite: PEAC SWM1 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

SWM3 ADVANCED SWIMMING**.5-2 UNITS**

Designed for those students who would like to learn advanced strokes in swimming. Prerequisite: PEAC SWM2 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

SWM4 HIGH LEVEL SWIMMING**.5-2 UNITS**

Designed for students who are interested in acquiring the swimming skills and conditioning necessary to compete at high level. Prerequisite: PEAC SWM3 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

TBB1 TOURNAMENT BASEBALL LEAGUE .5-2 UNITS

Designed for students to develop sport specific individual, group and team skills while participating in actual Baseball games. An extensive baseball background and previous experience is needed for success in this class. Prerequisite: Students need an extensive baseball background and skill set. Students should be a member of a team and/or established and recognized baseball league. 2-6 hours. Transfer: CSU; UC; CSU/GE.

TBB2 INTERMEDIATE TOURNAMENT BASEBALL LEAGUE .5-2 UNITS

Designed for advanced baseball students to improve sport specific individual, group and team skills while participating in actual Baseball games. An extensive baseball background and previous experience is needed for success in this class. Prerequisite: PEAC TBB1 (completed with a grade of "C" or higher) Strongly Recommended: Student should be a member of a team and/or established and recognized baseball league. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

TEN1 INTRODUCTION TO TENNIS .5-2 UNITS

Introduction to the game of tennis. The course will involve basic stroking methods, conditioning techniques, historical background, rules, scoring, as well as singles and doubles strategies. 2-6 hours. CSU; UC; CSU/GE. (UC credit/unit limits may apply).

TEN2 INTERMEDIATE TENNIS .5-2 UNITS

This course is designed for those students who have completed Tennis 1. The course will involve more techniques on the strokes of tennis, introducing spin as a control technique, footwork patterns, conditioning, historical background, rules, scoring, as well as strategy and court positioning for singles and doubles play. Prerequisite: PEAC TEN1 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

TEN3 ADVANCED TENNIS .5-2 UNITS

This course is for tennis players who are at an advanced level of play. The course will involve singles and doubles strategies that utilize high percentage play, footwork and conditioning drills, strategies for courts positioning in both singles and doubles play. Prerequisite: PEAC TEN2 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

TEN4 TOURNAMENT TENNIS .5-2 UNITS

This course is designed for those tennis players who are competing in tournaments or league play. The course will cover strategy, court positioning, footwork and conditioning, and tennis strokes technique. Prerequisite: PEAC TEN3 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

TKD2 INTERMEDIATE TAE KWON DO .5-2 UNITS

Introductory course in the history, philosophy, techniques and safety aspects of tae-kwon-do. This is an ancient Korean martial art where students will learn "the way of fist and foot," as well as increase cardiovascular and muscular fitness. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

TKD2 INTERMEDIATE TAE KWON DO .5-2 UNITS

Designed to further the development of the beginning student in the ancient art of Tae Kwon Do. Intermediate skills in blocking, kicking, punching and katas will be introduced. This is the second in a series of structured martial art courses in the way of the "fist and foot." Prerequisite: PEAC TKD1 (completed with a grade of "C" or higher). 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

TKD3 ADVANCED TAE KWON DO .5-2 UNITS

Designed to develop the advanced skills, theory and philosophy in the ancient art of Tae Kwon Do. Students will be introduced to advance forms of katas, blocks, kicking and defensive moves. Prerequisite: PEAC TKD 2 (completed with a grade of "C" or higher). 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

TKD4 MASTERING TAE KWON DO .5-2 UNITS

The fourth in a series of courses designed for accomplished Tae Kwon Do students. In this course the student will learn advanced katas and sparing techniques. Prerequisite: PEAC TKD3 (completed with a grade of "C" or higher). Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

TR11 BEGINNING TRIATHLON TRAINING .5-2 UNITS

Designed to introduce the basics of training for a triathlon. Students will learn how to train for the bike, in the pool and on the roads running. Prior swimming experience is required. Strongly Recommended: The student must be able to swim before taking this class. This course is NOT a swim class. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

TR12 INTERMEDIATE TRIATHLON TRAINING .5-2 UNITS

Designed to further enhance the training skills learned in Beginning Triathlon to an intermediate level. Students will be introduced and practice anaerobic threshold training. Prerequisite: PEAC TR11 (completed with a grade of "C" or higher). 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

**VOL1 INTRODUCTION TO VOLLEYBALL .5-2 UNITS**

Designed to provide students an opportunity to learn or review and practice those skills which are acceptable under current rules and interpretations in the game of volleyball; to promote an interest in leisure time activity; acquire an appreciation of competitive play as a spectator; and to teach students what acceptable conduct is in a coeducational activity. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

VOL2 INTERMEDIATE VOLLEYBALL .5-2 UNITS

This course is designed to teach the intermediate skills of volleyball and to promote sportsmanship in a coeducational activity. Students will learn about current rules and effective game strategy. Strongly Recommended: PEAC VOL1 (completed with a grade of "C" or higher). 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE.

VOL3 ADVANCED VOLLEYBALL .5-2 UNITS

This course is designed to teach advanced skills and strategy in recreational volleyball. Students will learn a variety of setting, hitting and blocking drills to enhance their ability. Prerequisite: PEAC VOL2 (completed with a grade of "C" or higher). 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WAP1 INTRODUCTION TO WATER POLO .5-2 UNITS

Designed to provide the student the opportunity to develop their skills in water polo. Aspects of leadership, team play, sportsmanship, and other social values are concomitant objectives. Students will learn about training and prevention of metabolic syndrome through diet and exercise in this course. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WAP2 BEGINNING WATER POLO .5-2 UNITS

Designed to enhance and to develop strategic play necessary for tournament play. Prerequisite: PEAC WAP1 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WAP3 INTERMEDIATE WATER POLO .5-2 UNITS

Designed to provide the student the capability of participating in tournament play. Aspects of leadership, team play, sportsmanship, and other social values are concomitant objectives. Prerequisite: PEAC WAP2 (completed with a grade of "C" or higher) . 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WAP4 ADVANCED WATER POLO .5-2 UNITS

Designed to provide the student participation in tournament play. Aspects of team play, good sportsmanship and life long health and well-being. Prerequisite: PEAC WAP3 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WEI1 INTRODUCTION TO WEIGHT TRAINING .5-2 UNITS

Designed to teach the basic elements of weight training and prepare the student's body; i.e., muscles, ligaments, tendons and joints to endure weight training. Emphasis on developing muscle strength balances in the 3 different planes of motion and muscular endurance training. Circuit training will be utilized. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WEI2 INTERMEDIATE WEIGHT TRAINING .5-2 UNITS

Designed to focus on increasing the muscular hypertrophy of the prime movers. Workout templates will be provided that stimulate and provoke high and positive chemical changes within the muscle system. Prerequisite: PEAC WEI1 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WEI3 ADVANCED WEIGHT TRAINING .5-2 UNITS

Designed to teach the student advanced lifts and training methods in weight training and to develop the highest level of force and to become significantly stronger through the use of muscular strength training stimulus. The student will learn to synchronize their muscles involved in the exercise. Prerequisite: PEAC WEI2 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WEI4 WEIGHT TRAINING FOR MUSCULAR POWER .5-2 UNITS

This is a course designed to increase the muscular power of the student through high velocity training. Emphasis on improving neuromuscular coordination through the utilization of the stretch-reflex principle and higher rates of acceleration through lighter training loads. Prerequisite: PEAC WEI3 (completed with a grade of "C" or higher), 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WLK1 WALKING FOR FITNESS .5-2 UNITS

This course is for students of all fitness levels who would like to utilize walking as a fitness enhancing activity. Walking routes begin on campus and explore a multitude of nearby parks and trails. Topics to be discussed include: fitness and health assessment, equipment and safety, walking techniques, motivation, nutrition basics, program design and evaluation, volkssporting and more. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WLK2 ADVANCED WALKING FOR FITNESS .5-2 UNITS

This course is for students of intermediate-to-advanced fitness levels who would like to utilize walking as a fitness enhancing activity. Walking routes are on campus and will utilize the stadium bleachers, stairs and track. Multiple discussion topics will include: interval training, fitness and health assessment, equipment and safety, walking techniques, motivation, nutrition basics, program design and evaluation. Students will learn about target heart rate training and recording and monitoring their heart rate in this course. Prerequisite: PEAC WLK1 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).



WLK3 ADVANCED CARDIOVASCULAR FITNESS THRU WALKING .5-2 UNITS

Designed to develop advanced cardiovascular fitness through walking and a series of supplemental exercises. Prerequisite: PEAC WLK2 (completed with a grade of "P" or higher), 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WLK4 WALK/JOG FOR TOTAL FITNESS .5-2 UNITS

The fourth in a series of walking fitness courses to improve cardiovascular fitness. The goal of this course is bridge the gap between walking and jogging through a gradual and progressive training plan. Prerequisite: PEAC WLK3 (completed with a grade of "C" or higher). 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WOW1 WOMEN'S WEIGHT TRAINING 1 .5-2 UNITS

Designed to provide introductory information on physical fitness and strength training through the use of progressive resistance exercises. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WOW2 WOMEN'S WEIGHT TRAINING 2 .5-2 UNITS

Designed to provide basic information to students wishing to improve their physical fitness through the use of progressive resistance exercises. The material for the course is predicated upon the use of sound physiological principles. Students will learn about training and prevention of metabolic syndrome through diet and exercise in this course. Prerequisite: PEAC WOW1 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WOW3 ADVANCED RESISTANCE TRAINING .5-2 UNITS

Designed to provide advanced information to students wishing to improve their physical fitness through the use of progressive resistance exercises. Students will learn about advanced training methods and develop advanced personal workout programs. Prerequisite: PEAC WOW2 (completed with a grade of "C" or higher). Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WSC1 WOMEN'S RECREATIONAL SOCCER .5-2 UNITS

This course is designed to teach recreational soccer to women. Students will learn the skills of trapping, passing and strategy used in recreational play. 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WSC2 WOMEN'S INTERMEDIATE RECREATIONAL SOCCER .5-2 UNITS

Designed to provide women with an understanding and an opportunity to learn and play soccer recreationally at an intermediate level. Prerequisite: PEAC WSC1 (completed with a grade of "P" or higher). 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

WSC3 WOMEN'S ADVANCED RECREATIONAL SOCCER .5-2 UNITS

Designed to provide women at Chabot the opportunity to play soccer recreationally at an advanced level. Prerequisite: PEAC WSC2 (completed with a grade of "P" or higher). Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

YOG1 INTRODUCTION TO YOGA .5-2 UNITS

This is course explores the basic principles of Hatha Yoga and how they apply to achieving lifetime fitness. It incorporates yoga postures (asanas) designed to strengthen and tone the body. Breathing exercises, relaxation and meditation techniques are learned and practiced throughout the course. Students will learn about training and prevention of metabolic syndrome through diet and exercise in this course. 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

YOG2 INTERMEDIATE YOGA .5-2 UNITS

Designed for students who have completed beginning Yoga (YOG1) and are ready to progress to more complex moves in hatha yoga. Prerequisite: PEAC YOG1 (completed with a grade of "C" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

YOG3 ADVANCED YOGA .5-2 UNITS

Designed for students who have completed Yoga 2 and are ready to study more advanced and complicated asanas. Prerequisite: PEAC YOG2 (completed with a grade of "P" or higher). 2-6 hours. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

YOG4 YOGA FOR LIFE .5-2 UNITS

Designed for the advanced yoga student to learn yoga routines that can be performed throughout life. Prerequisite: PEAC YOG3 (completed with a grade of "C" or higher). 2-6 hours laboratory. Transfer: CSU; UC; CSU/GE. (UC credit/unit limits may apply).

LIBERAL ARTS

(See Psychology-Counseling)

LIBERAL STUDIES

(See Psychology-Counseling)

LIBRARY STUDIES (LIBS)

1 LIBRARY SKILLS FOR AN INFORMATION SOCIETY 1 UNIT

Introduction to academic libraries and information resources they provide, including development of search strategies, and the retrieval, evaluation, and use of information. Effective use of print and electronic resources, including online library catalogs, reference sources, online periodicals and research databases, and the internet. Prepares students to resolve different information queries, problems or issues (both academic and non-academic) in a systematic way—locate, evaluate, synthesize and communicate information. 1 hour. Transfer: CSU; UC.

2 LIBRARY RESEARCH AND INFORMATION LITERACY SKILLS VIA POPULAR CULTURE 2 UNITS

Introduction to research techniques using Chabot College library resources. Teaches the skills needed to successfully find, evaluate, and document information in print, electronic, and Internet formats. Covers plagiarism, the ethical and legal aspects of information use, and the critical thinking skills necessary for successful college research, 2 hours. Transfer: CSU.

MACHINE TOOL TECHNOLOGY (MTT)

DEGREE:

AS—MACHINE TOOL TECHNOLOGY

AS—NUMERICAL CONTROL

CERTIFICATE OF ACHIEVEMENT:

MACHINIST

NUMERICAL CONTROL PROGRAMMER (MACHINIST)

TOOL MAKER

The Machinist one-year certificate program is designed to train students in the operation of a variety of precision metal removal tools, from small hand tools to machine tools such as: drill presses, lathes, milling machines, and grinders. Graduates acquire basic skills to setup and operate all standard machine tools and machine parts from blueprint specifications. Graduates are also introduced to computerized numerical control (CNC) machines. In addition, students learn basic hand skills including general machining techniques required to setup and operate all standard machine tools for the manufacture of parts from blueprint specifications.

The Tool Maker two-year program is designed to train students for a tool and die making career. Graduates are trained in tool and die making, computerized numerical control (CNC) machining, computer-aided manufacturing, computer-aided drafting and design, and are capable of learning new skills with minimum instruction. Students are expected to have an appreciation of precise work and a desire to observe the progression of complex parts.\

Students use a variety of computer software applications to draw, design, and program CNC machines, and application work focuses on jigs, fixtures, and punch and die work.

Numerical Control is a system (sometimes referred to as CAM—Computer-Aided Manufacturing) using specially prepared instructions, developed by the N/C Programmer, to control the operation of various manufacturing equipment such as machine tools, inspection machines, woodworking machines, laser machines, and robots.

MACHINE TOOL TECHNOLOGY

ASSOCIATE IN SCIENCE DEGREE

The Tool Maker two-year program is designed to train students for a tool and die making career. Graduates are trained in tool and die making, computerized numerical control (CNC) machining, computer-aided manufacturing, computer-aided drafting and design, and are capable of learning new skills with minimum instruction. Students are expected to have an appreciation of precise work and a desire to observe the progression of complex parts. Students use a variety of computer software applications to draw, design, and program CNC machines, and application work focuses on jigs, fixtures, and punch and die work.

PROGRAM-LEVEL OUTCOMES

1. Demonstrate the expertise needed to fabricate machined parts in a timely and professional manner with minimal supervision.
2. Demonstrate the expertise needed to create parts, drawings, and assemblies using SolidWorks design software.

YEAR ONE		UNITS
MTT 50	Blueprint Reading, Sketching, and CAD	3
MTT 60A	Machine Tool Technology I	4
WELD 70	Introduction to Welding	2
MTT 60B	Machine Tool Technology II	4
YEAR TWO		UNITS
MTT 65	Production Practices	4
MTT 71A	Numerical Control Program I	4
MTT 66	Basic Toolmaking	4
MTT 81B	Surfcam	3
or		
MTT 81C	Mastercam X	3



GENERAL EDUCATION UNITS FOR A.S. DEGREE

For specific A.S. General Education courses refer to catalog section on A.S. Graduation Requirements.

REQUIRED MAJOR SPECIFIC G.E. REQUIREMENT.

Complete a minimum of 3 units from the following.

INDT 74	Measurements and Calculations	3
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The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS **28**

NUMERICAL CONTROL
ASSOCIATE IN SCIENCE DEGREE

Numerical Control is a system (sometimes referred to as CAM—Computer-Aided Manufacturing) using specially prepared instructions, developed by the N/C Programmer, to control the operation of various manufacturing equipment such as machine tools, inspection machines, woodworking machines, laser machines, and robots.

PROGRAM-LEVEL OUTCOMES

1. Demonstrate the expertise needed to fabricate setup, program, and machine parts manually and on numerically controlled lathes and milling machines in a timely and professional manner with minimal supervision.
2. Demonstrate the expertise needed to turn parts using both manual and CNC equipment.

YEAR ONE **UNITS**

MTT 50	Blueprint Reading, Sketching, and CAD	3
MTT 60A	Machine Tool Technology I	4
MTT 71A	Numerical Control Program I	4
MTT 60B	Machine Tool Technology II	4
MTT 71B	Numerical Control Program II	4

YEAR TWO **UNITS**

MTT 65	Production Practices	4
MTT 81A	SolidWorks for Machine Shops	3
MTT 71C	Numerical Ctrl Programming III	4
MTT 81B	Surfcam	3
	or	
MTT 81C	Mastercam X	3

GENERAL EDUCATION UNITS FOR A.S. DEGREE

For specific A.S. General Education courses refer to catalog section on A.S. Graduation Requirements.

REQUIRED MAJOR SPECIFIC G.E. REQUIREMENT. Complete a minimum of 3 units from the following.

INDT 74	Measurements and Calculations	3
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TOTAL UNITS **33**

MACHINIST

CERTIFICATE OF ACHIEVEMENT

PROGRAM-LEVEL OUTCOMES

1. Demonstrate the expertise needed to fabricate machined parts in a timely and professional manner with minimal supervision.
2. Demonstrate the ability to create basic CNC machine tool setups.

CORE COURSES

		UNITS
MTT 60A	Machine Tool Technology I	4
MTT 63A	Individual Projects	2
MTT 71A	Numerical Control Program I	4
MTT 50	Blueprint Reading, Sketching, and CAD	3
INDT 74	Measurements and Calculations	3
MTT 60B	Machine Tool Technology II	4
MTT 63B	Advanced Individual Projects	2
MTT 81B	Surfcam	3
	or	
MTT 81C	Mastercam X	3
WELD 70	Introduction to Welding	2

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS **27**





**NUMERICAL CONTROL PROGRAMMER
(MACHINIST)
CERTIFICATE OF ACHIEVEMENT**

PROGRAM-LEVEL OUTCOMES

1. Demonstrate the expertise needed to fabricate setup, program, and machine parts manually and on numerically controlled lathes and milling machines in a timely and professional manner with minimal supervision.
2. Demonstrate the expertise needed to turn parts using both manual and CNC equipment.

YEAR ONE		UNITS
MTT 50	Blueprint Reading, Sketching, and CAD	3
INDT 74	Measurements and Calculations	3
MTT 60A	Machine Tool Technology I	4
MTT 71A	Numerical Control Program I	4
MTT 60B	Machine Tool Technology II	4
MTT 71B	Numerical Control Program II	4

YEARTWO		UNITS
MTT 65	Production Practices	4
MTT 81A	SolidWorks for Machine Shops	3
MTT 71C	Numerical Ctrl Programming III	4
MTT 81B	Surfcam	3
or		
MTT 81C	Mastercam X	3

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS **36**

**TOOL MAKER
CERTIFICATE OF ACHIEVEMENT**

The Tool Maker two-year program is designed to train students for a tool and die make career.

PROGRAM-LEVEL OUTCOMES

1. Demonstrate the expertise needed to fabricate machined parts in a timely and professional manner with minimal supervision.
2. Demonstrate the ability to create basic CNC machine tool setups.

CORE COURSES		UNITS
MTT 60A	Machine Tool Technology I	4
MTT 65	Production Practices	4
INDT 74	Measurements and Calculations	3
MTT 71A	Numerical Control Program I	4
WELD 70	Introduction to Welding	2
MTT 50	Blueprint Reading, Sketching, and CAD	3
MTT 60B	Machine Tool Technology II	4
MTT 66	Basic Toolmaking	4
MTT 81B	Surfcam	3
or		
MTT 81C	Mastercam X	3

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where prerequisite applies.

TOTAL UNITS **31**

MACHINE TOOL TECHNOLOGY (MTT)

50 BLUEPRINT READING, SKETCHING AND CAD **3 UNITS**

Fundamentals of freehand sketching, reading of blueprints, interpreting of commonly used symbols, pictorial drawings, orthographic projection, geometric construction, dimensioning, and sectioning. Includes a general approach to Computer Aided Drafting (CAD). Focus on subject matter relevant to Machine Tool Technology and Industrial Technology applications and local industry requirements. Designed to provide a working knowledge of methods of graphical communication. 2 hours lecture, 3 hours laboratory.

60A MACHINE TOOL TECHNOLOGY I **4 UNITS**

Introduction to machine tool operations relating to precision measuring tools, layout methods, screw threads, benchwork, drill presses, bandsaws, basic lathe and vertical milling operations, and evaluation of manufacturing job opportunities. Emphasis on safe and correct use of hand and machine tools. 2 hours lecture, 6 hours laboratory. Transfer: CSU.

60B MACHINE TOOL TECHNOLOGY II **4 UNITS**

Continuation of Machine Tool Technology 60A. Theory and laboratory practice relating to advanced lathe and milling machine operations, gear cutting, steel and heat treating, basic surface and cylindrical grinding, and introduction to metric measurement. Emphasis on correct machine tool setups and quality of project work are stressed. Prerequisite: Machine Tool Technology 60A (completed with a grade of "C" or higher). Strongly recommended: Industrial Technology 74. 2 hours lecture, 6 hours laboratory. Transfer: CSU.

63A INDIVIDUAL PROJECTS **2 UNITS**

Design, development, and fabrication of selected projects for the machine tool technology major to develop special entry-level job skills. Strongly recommended: Machine Tool Technology 60A. 6 hours laboratory.

63B ADVANCED INDIVIDUAL PROJECTS **2 UNITS**

Continuation of Machine Tool Technology 63A. Selected projects to provide certain specialized skills required for job updating, job advancement, or skill specialization. Strongly recommended: Machine Tool Technology 60A. 6 hours laboratory.

**65 PRODUCTION PRACTICES****4 UNITS**

Introduction to design and fabrication of production-type toolings such as jigs, fixtures, and gauges as applied in industry. Emphasis on tool design practices, fabrication techniques, set-up procedures, and inspection of production parts. Prerequisite: Machine Tool Technology 60B (completed with a grade of "C" or higher). 2 hours lecture, 6 hours laboratory. Transfer: CSU.

66 BASIC TOOLMAKING**4 UNITS**

Toolroom grinding, precision measurement, precision boring, steels and heat treating, carbide cutting tools, job estimating, and basic die-making theory. Prerequisite: Machine Tool Technology 65 (completed with a grade of "C" or higher). 2 hours lecture, 6 hours laboratory. Transfer: CSU.

70 INTRODUCTION TO MACHINE SHOP**2 UNITS**

Introduction to machine shop practice. Includes measuring tools, benchwork, screw threads, drill presses, lathes, and vertical milling machine operations. Safe and correct use of machine tools. 1 hour lecture, 3 hours laboratory. Transfer: UC; CSU.

71A NUMERICAL CONTROL PROGRAMMING I**4 UNITS**

Introduction to programming and operating three-axis computer numerical controlled drilling and milling machining centers. Instruction includes the standard XYZ Cartesian Coordinate system, manual and automatic machining center operation, absolute and incremental positioning, program coding and preparation, fabrication of basic three-axis drill and mill parts, and laboratory "first article" inspection reports. Strongly recommended: Industrial Technology 74. 2 hours lecture, 6 hours laboratory. Transfer: CSU.

71B NUMERICAL CONTROL PROGRAMMING II**4 UNITS**

Intermediate programming and operating three-axis computer numerical controlled drilling and milling machining centers. Instruction includes intermediate contouring, helical interpolation, thread milling, sub programs, basic macro programming, conversational programming, programming with DXF files, program coding and preparation, process planning, fabrication of intermediate three-axis drill and mill parts, and laboratory "first article" inspection reports. Prerequisite: Machine Tool Technology 71A (completed with a grade of "C" or higher). 2 hours lecture, 6 hours laboratory. Transfer: CSU.

71C NUMERICAL CONTROL PROGRAMMING III**4 UNITS**

Basic programming and operating of two-axis and live tooling computer numerical controlled lathes. Instruction includes lathe programming using constant surface speeds, internal and external turning, live tool drilling, tapping, milling, sub spindle operation, and laboratory "first article" inspection reports. Strongly recommended: Industrial Technology 74. 2 hours lecture, 6 hours laboratory. Transfer: CSU.

75 NUMERICAL CONTROL OPERATOR**4 UNITS**

Introduction to operating computer numerical controlled drilling and milling machining centers, two-axis lathes, and mill-turn machining centers. Instruction includes the XYZ Cartesian Coordinate system, manual and automatic machining center setup and operation, 2-axis lathe setup and operation, mill-turn machining center setup and operation, basic program editing, run programmed mill and lathe parts, laboratory "first article" inspection, and creating lab inspection reports. 2 hours lecture, 6 hours laboratory.

81A SOLIDWORKS FOR MACHINE SHOPS**3 UNITS**

The fundamentals of SolidWorks design software as it pertains to machine shop use and requirements. Instruction includes theory and laboratory practice on the use of the SolidWorks design software environment to create solid models, drawings, assemblies and how to interface SolidWorks models with CAD/CAM software. PhotoWorks Cosmos Express, eDrawings, and other third party "add-ins" will be touched on briefly. Strongly recommended: Machine Tool Technology 71A. 2 hours lecture, 3 hours laboratory.

81B SURFCAM**3 UNITS**

The fundamentals of Surfcam CAD/CAM manufacturing software as it pertains to machine shop use and requirements. Instruction includes theory and laboratory practice on the use of the Surfcam software environment to create 2.5 and 3 axis, lathe, and wire edm tool paths. Instruction includes part drawing, dimensioning, importing electronic files (DXF, IGES, Sldprt, and Dwg), lathe and mill tool path construction, geometry and tool path transformations, tool path editing, and post processors. Strongly recommended: Machine Tool Technology 71A. 2 hours lecture, 3 hours laboratory.

81C MASTERCAM X**3 UNITS**

The fundamentals of the latest version of Mastercam X CAD/CAM manufacturing software as it pertains to machine shop use and requirements. Instruction includes theory and laboratory practice on the use of the Mastercam X software environment to create 2.5 and 3 axis, lathe, and wire edm tool paths. Instruction includes part drawing, dimensioning, importing electronic files (DXF, IGES, Sldprt, and Dwg), lathe and mill tool path construction, geometry and tool path transformations, tool path editing, and post processors. Strongly recommended: Machine Tool Technology 71A. 2 hours lecture, 3 hours laboratory.



MASS COMMUNICATIONS (MCOM)

DEGREE

AA—MASS COMMUNICATIONS

MASS COMMUNICATIONS

ASSOCIATE IN ARTS DEGREE

In pursuing this degree, students will gain knowledge and hands-on experience in radio, television, and print journalism. They will be able to transfer to a university program using their knowledge and experience or seek job entry in one of the media fields.

CAREER OPPORTUNITIES IN MASS COMMUNICATIONS

Media professional, journalist, advertising, public relations, media researcher, broadcast, reporter, editor, Copyeditor, public information officer, radio/TV professional, media developer.

PROGRAM-LEVEL OUTCOMES

1. Demonstrate knowledge of the history, processes, and instruction of a variety of media, including the ability to exercise critical judgment in the evaluation of media productions.
2. Demonstrate through projects that with the power of a communicator comes more and ethical responsibility.

YEAR ONE	UNITS
MCOM 40 Introduction to Broadcasting	3
MCOM 41 Introduction to Mass Communications	3
MCOM 20 Journalism: Newswriting and Information Gathering	3
MCOM 25 Magazine and Newspaper Feature Writing	3
MCOM 42 Writing for Broadcasting	3
PHOT 50 Introduction to Photography	3

YEARTWO	UNITS
MCOM 21 Newspaper Production I	3
BUS 34 Introduction to Advertising	3
MCOM 60 Television Studio Techniques I	3
MCOM 43 Advertsng Sales & Media Mngmnt	4
MCOM 44 Radio & Television Announcing	3
MCOM 61 TV Studio Techniques II	3

Mass Communications Option * 3

*Any course in Mass Communications.

GENERAL EDUCATION COURSES

For specific General Education courses refer to catalog section on A.A. Graduation Requirements.

TOTAL UNITS 40

MASS COMMUNICATIONS (MCOM)

9 COLLOQUIUM-MASS COMMUNICATIONS 1 UNIT
 Exploration in interdepartmental collaboration between Journalism, Radio and Television. Experience in working on cross-platform projects in content creation. Designing material for newspaper, radio and television. Learning production techniques for newspaper, radio and television. Discussions may include programming philosophies, formatting content for specific media, marketing, promotions, news and sports.

14 WRITING AND PHOTOGRAPHY FOR A WEEKLY PUBLICATION 1 UNIT
 Journalism and photojournalism, content development/production for the weekly college newspaper. 3 hours laboratory. Transfer: CSU.

15 PUBLICATIONS—EDITORIAL LEADERSHIP AND PRODUCTION 3 UNITS
 Production of the college newspaper, including instruction and experience in writing, business management, graphic arts, leadership and editing. Strongly recommended: Eligibility for English 1A. 1 hour lecture, 6 hours production. Transfer: CSU.

20 JOURNALISM: NEWSWRITING AND INFORMATION GATHERING 3 UNITS
 Fundamentals of reporting and newswriting to develop ability to identify a compelling story, gather information, organize, write, rewrite and deliver in the chosen format, according to professional standards of traditional print journalism and online journalism, supported by multimedia. Analysis of exemplary journalistic models. Conceive, research, and write stories using traditional news values. Requires source interviews or original research. (May not receive credit if MCOM 1 has been completed.) Strongly Recommended: Eligibility for ENGL 1A. 3 hours. Transfer: CSU; C-ID: JOUR 110.

21 NEWSPAPER PRODUCTION I 3 UNITS
 This course focuses on writing and producing student news publications using the school newspaper, the Spectator and its online version, thechabotspectator.com, as a practical laboratory that produces a journalistic product for distribution to a college-wide audience. Students will work primarily in one of the following areas: researching, writing, and editing articles for the two publications; taking photographs and creating graphic illustrations; developing multimedia stories; or designing pages. Ethics and legal aspects of communication are also covered. Strongly Recommended: MCOM 20 (completed with a grade of "C" or higher), eligibility for ENGL 1A. 1 hour lecture, 6 hours laboratory. Transfer: CSU; C-ID: JOUR 130.



22 NEWSPAPER PRODUCTION II 3 UNITS

This course focuses on intermediate writing and producing student news publications using the school newspaper, the Spectator and its online version, thechabotspectator.com, as a practical laboratory that produces a journalistic product for distribution to a college-wide audience. Students will work primarily in two or three of the following areas: researching, writing, and editing articles for the two publications; taking photographs and creating graphic illustrations; developing multimedia stories; or designing pages. Ethics and legal aspects of communication and media leadership/management are also covered. Prerequisite: MCOM 21 (completed with a grade of "C" or higher) Strongly Recommended: MCOM 20 (completed with a grade of "C" or higher); eligibility for ENGL 1A. 1 hour lecture, 6 hours laboratory. Transfer: CSU ; C-ID: JOUR 131.

23 NEWSPAPER PRODUCTION III 3 UNITS

This course focuses on advanced intermediate writing and producing student news publications using the school newspaper, the Spectator and its online version, thechabotspectator.com, as a practical laboratory that produces a journalistic product for distribution to a college-wide audience. Students will work primarily in four or five of the following areas: researching, writing, and editing articles for the two publications; taking photographs and creating graphic illustrations; developing multimedia stories; or designing pages. Ethics and legal aspects of communication and media leadership/management are also covered and students should serve in leadership roles. Prerequisite: MCOM 22. 1 hour lecture, 6 hours laboratory. Transfer: CSU.

24 NEWSPAPER PRODUCTION IV 3 UNITS

This course focuses on advanced leadership, writing and producing student news publications using the school newspaper, the Spectator and its online version, thechabotspectator.com, as a practical laboratory that produces a journalistic product for distribution to a college-wide audience. Students will produce work in six or more of the following areas: researching, writing, and editing advanced investigative and in-depth articles for the two publications; taking photographs and creating graphic illustrations; developing multimedia stories; or designing pages. Ethics and legal aspects of communication and media leadership/management are also covered and students should serve in leadership roles and cover a major or public affairs beat. Prerequisite: MCOM 23. 1 hour lecture, 6 hours laboratory. Transfer: CSU.

25 MAGAZINE AND NEWSPAPER FEATURE WRITING 3 UNITS

Feature writing, free lance journalism and how to get published in newspapers and magazines and online opportunities. (May not receive credit if MCOM 3 has been completed.) Strongly Recommended: ENGL 1A (completed with a grade of "C" or higher). 3 hours. Transfer: CSU.

26 BEGINNING PHOTOJOURNALISM 3 UNITS

Beginning photojournalism focuses on the technical, aesthetic, journalistic and interpersonal skills needed to produce images that tell stories for newspapers, magazines, books and the Internet. Assignments will introduce students to specific areas of photojournalism including current technology and tools for preparing images. Students may be assigned to cover protests, demonstrations, political campaigns, live performances, campus events, press conferences, sporting events and feature stories that explore contemporary social issues. Journalistic ethics will be the subject of ongoing discussions throughout the semester, as will applicable business practices. Strongly Recommended: PHOT 50 or PHOT 53A. 1 hour lecture, 6 hours laboratory. Transfer: CSU; C-ID: JOUR 160.

40 INTRODUCTION TO BROADCASTING 3 UNITS

A survey of radio, television, film, and multimedia and their impact on culture and society; includes economics, technological development, programming, ratings, legal aspects, and social control of broadcasting in America, and cross-cultural, international comparisons. (May not receive credit if Mass Communications 31 has been completed.) 3 hours. Transfer: CSU; UC; CSU/GE.

41 INTRODUCTION TO MASS COMMUNICATIONS 3 UNITS

History of the press and mass media; the political, social and economic impact of the press on government and public opinion. The social and cultural impact of the media and its role in shaping public perception. An overview of the news process and job opportunities in the media. Strongly recommended: Eligibility for English 1A. (May not receive credit if Mass Communications 5 has been completed.) 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: JOUR 100.

42 WRITING FOR BROADCASTING 3 UNITS

Techniques of writing for radio and television; including script writing and discussion of professional and student scripts, with emphasis on commercials; and underwriting announcements, public service announcements, news and program introductions. Strongly recommended: Eligibility for English 1A or 52A. (May not receive credit if Mass Communications 35 has been completed.) 3 hours. Transfer: CSU.

43 ADVERTISING SALES AND MEDIA MANAGEMENT 4 UNITS

Introduction to broadcast advertising sales from research through the sales presentation to the airing of the commercial campaign. Broadcast and cable station managerial objectives, procedures and problems pertaining to daily operations; and the managerial perspective of individual departments within the broadcast and cable station. (May not receive credit if Mass Communications 8 has been completed.) 4 hours. Transfer: CSU.

44 RADIO AND TELEVISION ANNOUNCING/ PERFORMANCE 3 UNITS

Projection of personality, voice control and pronunciation necessary for communication of ideas in radio and television broadcasting under simulated studio circumstances. (May not receive credit if Mass Communications 32 has been completed.) 3 hours. Transfer: CSU.

50 RADIO STUDIO TECHNIQUES 3 UNITS

Operational procedures and practices in a modern radio broadcast studio. Emphasis on production aspects including editing and announcing, station operations and commercial radio programming. (May not receive credit if Mass Communications 34 has been completed.) 3 hours lecture, 1 hour laboratory. Transfer: CSU.

56 INTRODUCTION TO KCRH RADIO EXPERIENCE 3 UNITS

Introduction to practical experience in KCRH radio station operations including programming, music, audio production techniques, promotions, news, live sports, and underwriting sales. Experience in broadcast operation of KCRH-FM. Prerequisite: MCOM 50 (completed with a grade of "C" or higher). 2 hours lecture, 3 hours laboratory. Transfer: CSU.

58 INTERMEDIATE KCRH RADIO EXPERIENCE 3 UNITS

Intermediate practical experience in KCRH radio station operations including programming, music, audio production techniques, promotions, news, live sports, and underwriting sales. Experience in broadcast operation of KCRH-FM. Prerequisite: MCOM 50 (completed with a grade of "C" or higher), MCOM 56 (completed with a grade of "C" or higher). 2 hours lecture, 3 hours laboratory. Transfer: CSU.



59 ADVANCED KCRH RADIO EXPERIENCE 3 UNITS

Advanced practical experience in KCRH radio station operations including running programming, music, audio production, promotions, news, live sports, and underwriting sales departments. Experience in broadcast operation of KCRH-FM. Prerequisite: Mass Communications 58 (completed with a grade of "C" or higher). 2 hours lecture, 3 hours laboratory. Transfer: CSU.

60 TELEVISION STUDIO TECHNIQUES I 3 UNITS

Introduction to studio practices. Hands-on experience in television studio operations, control room procedures, and basic program production. (Mass Communications 33A and 60 may be taken a combined total of four times.) 2 hours lecture, 3 hours laboratory. Transfer: CSU.

61 TELEVISION STUDIO TECHNIQUES II 3 UNITS

Further experience in television studio operations, control room procedures, and program production. Designed to improve skills in operating television equipment, and producing and directing television programs. Prerequisite: Mass Communications 60. 2 hours lecture, 3 hours laboratory. Transfer: CSU.

62 TELEVISION SPORTS PRODUCTION 2 UNITS

Introduction to the exciting field of television sports production. This course offers hands-on experience in LIVE broadcast of Chabot College home games and production of the Chabot Sports Show, both of which are broadcast on Chabot Television on Comcast cable channel 27. Other topics include: shooting and editing sports highlights and features, field production, sports field reporting, interviewing athletes, and news writing. Strongly recommended: Mass Communications 60. (Mass Communications 72 and 62 may be taken a combined total of 4 times). 1 hour lecture, 4 hours laboratory. Transfer: CSU.

63 CABLE TELEVISION STATION OPERATION 2 UNITS

Practical experience in cable television station operation including: programming the television line up, content development, community outreach, underwriting and sales, soliciting clients, and proper equipment maintenance. Experience in the broadcast operation of Chabot Television on Comcast cable 27. Strongly recommended: Mass Communications 60. (Mass Communications 73 and 63 may be taken a combined total of four times.) 1 hour lecture, 4 hours laboratory. Transfer: CSU.

68 KCTH TELEVISION EXPERIENCE 3 UNITS

Practical experience in television production and programming. Prerequisite: Mass Communications 60. (Mass Communications 73 and 63 may be taken a combined total of four times.) 2 hours lecture, 3 hours laboratory. Transfer: CSU.

69 ADVANCED KCTH TELEVISION EXPERIENCE 3 UNITS

Advanced practical experience in television production and programming. Prerequisite: Mass Communications 60 (completed with a grade of "C" or higher). Strongly recommended: Mass Communications 68 (completed with a grade of "C" or higher). 2 hours lecture, 3 hours laboratory. Transfer: CSU.



MATHEMATICS (MTH)

DEGREE:

AS-T—MATHEMATICS

AA—MATHEMATICS

AS—MATHEMATICS

MATHEMATICS

ASSOCIATE IN SCIENCE FOR TRANSFER

This curriculum provides an opportunity to achieve an Associate in Science Degree in Mathematics for Transfer to the California State University System (CSU) while completing the first and second year requirements for transfer to a four-year institution. A baccalaureate degree is recommended preparation for those considering professional careers in business. Completion of this curriculum will demonstrate commitment to the field and provide comprehensive preparation for upper-division work. This program is designed specifically for the California State University system. Lower Division requirements for the University of California system and private four-year colleges vary by transfer school. Please see a counselor for transfer requirements for other institutions. Students who intend to transfer must meet all current transfer requirements including minimum GPA. Students are strongly advised to meet with a counselor to discuss transfer requirements and lower division major preparation that is needed for their intended transfer school.



PROGRAM-LEVEL OUTCOMES

1. (Critical Thinking) Analyze mathematical problems critically using logical methodology.
2. (Communication) Communicate mathematical ideas, understand definitions, and interpret concepts.
3. (Development of the Whole Person) Increase confidence in understanding mathematical concepts, communicating ideas and thinking analytically.

REQUIRED CORE

		UNITS
MTH 1	Calculus I	5
MTH 2	Calculus II	5
MTH 3	Multivariable Calculus	5

List A (Choose one-3-4 units) Units

MTH 4	Elementary Differential Equations	3
MTH 6	Elementary Linear Algebra	3
MTH 8	Discrete Mathematics	4

List B (Choose one- 3-5 units) Units

Any course from List A not used above.

CSCI 14	Introduction to Structured Programming In C++	4
CSCI 15	Object-Oriented Programming Methods	4
CSCI 20	Introduction to Data Structures	4
ENGR 36	Engineering Mechanics -Statics	3
ENGR 43	Electrical Circuits and Devices	4
ENGR 45	Materials of Engineering	3
MTH 43	Introduction to Probability and Statistics	4
PHYS 4A	General Physics I	5

GENERAL EDUCATION REQUIREMENTS

Complete either the CSU/General Breadth or the (CSU) IGETC pattern.
37- 39 UNITS

(Possible double counting 9 units)

CSU transfer electives as needed to reach 60 CSU transferable units.

Total units: 60

All courses making up the minimum must be transferable to CSU, and a minimum GPA of 2.0 must be maintained.

TOTAL UNITS

21 - 24

MATHEMATICS

ASSOCIATE IN ARTS

Mathematics and related subjects play important dual roles in our culture. On the one hand, mathematics is a study in its own right; on the other hand it is an indispensable tool for expressing and understanding ideas in the sciences, engineering, and an increasing number of other fields.



PROGRAM-LEVEL OUTCOMES

1. (Critical Thinking) Analyze mathematical problems critically using logical methodology.
2. (Communication) Communicate mathematical ideas, understand definitions, and interpret concepts.
3. (Development of the Whole Person) Increase confidence in understanding mathematical concepts, communicating ideas and thinking analytically.

YEAR ONE		UNITS
MTH 1	Calculus I	5
MTH 2	Calculus II	5

Choose at least one other course from the following Units

CSCI 14	Introduction to Structured Programming In C++	4
CSCI 15	Object-Oriented Programming Methods	4
CSCI 20	Introduction to Data Structures	4
CSCI 21	Computer Organization and Assembly Language Programming	4
ENGR 25	Computational Methods for Engineers and Scientists	3
ENGR 36	Engineering Mechanics -Statics	3
ENGR 43	Electrical Circuits and Devices	4
ENGR 45	Materials of Engineering	3
MTH 25	Computational Methods for Engineers and Scientists	3
PHYS 4A	General Physics I	5
PHYS 25	Computational Methods for Engineers and Scientists	3

YEAR TWO		UNITS
MTH 3	Multivariable Calculus	5

Choose two Mathematics courses from the following: Units

MTH 4	Elementary Differential Equations	3
MTH 6	Elementary Linear Algebra	3
MTH 8	Discrete Mathematics	4

GENERAL EDUCATION COURSES FOR A.A. DEGREE

For specific General Education courses refer to catalog section on A.A. Graduation Requirements.

TOTAL UNITS **24 - 26**

MATHEMATICS
ASSOCIATE IN SCIENCE DEGREE

Mathematics and related subjects play important dual roles in our culture. On the one hand, mathematics is a study in its own right; on the other hand it is an indispensable tool for expressing and understanding ideas in the sciences, engineering, and an increasing number of other fields.

PROGRAM-LEVEL OUTCOMES

1. (Critical Thinking) Analyze mathematical problems critically using logical methodology.
2. (Communication) Communicate mathematical ideas, understand definitions, and interpret concepts.
3. (Development of the Whole Person) Increase confidence in understanding mathematical concepts, communicating ideas and thinking analytically.

YEAR ONE		UNITS
MTH 1	Calculus I	5
MTH 2	Calculus II	5

Choose at least one other course from the following Units

CSCI 14	Introduction to Structured Programming In C++	4
CSCI 15	Object-Oriented Programming Methods	4
CSCI 20	Introduction to Data Structures	4
CSCI 21	Computer Organization and Assembly Language Programming	4
ENGR 25	Computational Methods for Engineers and Scientists	3
ENGR 36	Engineering Mechanics -Statics	3
ENGR 43	Electrical Circuits and Devices	4
ENGR 45	Materials of Engineering	3
MTH 25	Computational Methods for Engineers and Scientists	3
PHYS 4A	General Physics I	5
PHYS 25	Computational Methods for Engineers and Scientists	3

YEAR TWO		UNITS
MTH 3	Multivariable Calculus	5

Choose two Mathematics courses from the following: Units

MTH 4	Elementary Differential Equations	3
MTH 6	Elementary Linear Algebra	3
MTH 8	Discrete Mathematics	4

GENERAL EDUCATION UNITS FOR A.S. DEGREE

For specific A.S. General Education courses refer to catalog section on A.S. Graduation Requirements.



REQUIRED MAJOR SPECIFIC G.E. REQUIREMENT.

Complete a minimum of 3 units from the following.

	Units
ANAT 1	5
ANTH 1	3
ANTH 1L	1
ANTH 2	3
ANTH 3	3
ANTH 5	3
ANTH 8	3
ANTH 12	3
ARCH 2A	3
ARCH 2B	3
ARCH 4A	3
ARCH 4B	3
ARCH 8A	4
ARCH 8B	4
ARCH 12	3
ARCH 14	3
ARCH 16	2
ASTR 10	3
ASTR 20	3
ASTR 30	1
BIOL 2	5
BIOL 2A	5
BIOL 2B	5
BIOL 4	4
BIOL 6	4
BIOL 10	4
BIOL 31	4
BIOL 50	4
CHEM 1A	5
CHEM 8	6
CHEM 10	4
CHEM 30A	4
CHEM 30B	4
CHEM 31	4
CSCI 8	3
CSCI 10	4
CSCI 14	4
CSCI 15	4
CSCI 19A	4
ECN 1	3
ECN 2	3
ECON 5	3
ECN 10	3
ECON 12	3
ENSC 10	3
ENSC 11	4
ENSC 12	3
GEOG 1	3
GEOG 1L	1
GEOG 8	3
GEOG 20	3

MTH 12	Introduction to Logic	3
MTH 33	Finite Mathematics	4
MTH 43	Introduction to Probability and Statistics	4
MICR 1	Microbiology	5
PHYS 2A	Introduction to Physics I	4
PHYS 4A	General Physics I	5
PHYS 4B	General Physics II	5
PHYS 4C	General Physics III	5
PHYS 5	Modern Physics	3
PHYS 11	Descriptive Physics	4
PHYS 1	1 Descriptive Physics	4
PHSI 1	Human Physiology	5
PSY 5	Introductory Statistics for the Behavioral and Social Sciences	4

TOTAL UNITS 24 - 26

.MATHEMATICS (MTH)

1 CALCULUS I 5 UNITS
 Elements of analytic geometry, derivatives, limits and continuity, differentiation of algebraic and trigonometric functions, the definite integral. Prerequisite: Mathematics 20 (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics assessment process. 5 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: MATH 211.

1W CALCULUS I WORKSHOP ¼-.5 UNIT
 Laboratory, study group, collaborative workshop or computer laboratory time for Calculus 1. Corequisite: Mathematics 1. 1–2 hours laboratory.

2 CALCULUS II 5 UNITS
 Continuation of differential and integral calculus, including transcendental, inverse, and hyperbolic functions. Techniques of integration, parametric equations, polar coordinates, sequences, power series and Taylor series. Introduction to three-dimensional coordinate system and operations with vectors. Primarily for mathematics, physical science, and engineering majors. Prerequisite: Mathematics 1 (completed with a grade of "C" or higher). 5 hours. Transfer: CSU; UC; CSU/GE; IGETC.

2W CALCULUS II WORKSHOP ¼-.5 UNIT
 Laboratory, study group, collaborative workshop or computer laboratory time for Calculus II. Corequisite: Mathematics 2. 1–2 hours laboratory.

3 MULTIVARIABLE CALCULUS 5 UNITS
 Vector valued functions, functions of several variables, partial differentiation, multiple integration, change of variables theorem, scalar and vector fields, gradient, divergence, curl, line integral, surface integral, Theorems of Green, Stokes and Gauss, applications. Prerequisite: Mathematics 2 (completed with a grade of "C" or higher). 5 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: MATH 230.

**3W MULTIVARIABLE CALCULUS WORKSHOP ¼-.5 UNIT**

Laboratory, study group, collaborative workshop or computer laboratory time for Multivariable Calculus. Corequisite: Mathematics 3. 1–2 hours laboratory.

4 ELEMENTARY DIFFERENTIAL EQUATIONS 3 UNITS

Introduction to elementary differential equations, including first and second order equations, series solutions, Laplace transforms, applications. Prerequisite: Mathematics 2 (completed with a grade of "C" or higher). 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: Math 240.

4W ELEMENTARY DIFFERENTIAL EQUATIONS WORKSHOP ¼-.5 UNIT

Laboratory, study group, collaborative workshop or computer laboratory time for Elementary Differential Equations. Corequisite: Mathematics 4. 1–2 hours laboratory.

6 ELEMENTARY LINEAR ALGEBRA 3 UNITS

Introduction to linear algebra: matrices, determinants, systems of equations, vector spaces, linear transformations, eigenvalue, eigenvectors, applications. Prerequisite: MTH 2 (completed with a grade of "C" or higher). 3 hours lecture. Transfer: CSU; UC; CSU/GE; IGETC; CID: Math 250.

6W ELEMENTARY LINEAR ALGEBRA WORKSHOP ¼-.5 UNIT

Laboratory, study group, collaborative workshop or computer laboratory time for Elementary Linear Algebra. Corequisite: Mathematics 6. 1–2 hours laboratory.

8 DISCRETE MATHEMATICS 4 UNITS

Sets, relations and functions; logic, methods of proof, induction; combinatorics, discrete probability, recursion, and recurrence relations; graphs and trees; logic circuits; finite state machines. Designed for majors in mathematics and computer science. Prerequisite: MTH 1 (completed with a grade of "C" or higher). Strongly Recommended: CSCI 14 (completed with a grade of "C" or higher) 4 hours. Transfer: CSU; UC; CSU/GE; IGETC.

8W DISCRETE MATHEMATICS WORKSHOP ¼-.5 UNIT

Laboratory, study group, collaborative workshop or computer laboratory time for Discrete Mathematics. Corequisite: Mathematics 8. 1–2 hours laboratory.

15 APPLIED CALCULUS I 3 UNITS

Differential calculus of algebraic, exponential, and logarithmic functions; introduction to integral calculus. Applications in business, economics and the life and social sciences. Prerequisite: Mathematics 31 (completed with a grade of "C" or higher) or Mathematics 20 (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics Assessment process. 3 hours lecture. Transfer: CSU; UC; CSU/GE; IGETC; C-ID MATH 140 (in combination with MATH 16.)

16 APPLIED CALCULUS II 3 UNITS

Techniques of integration; multivariable calculus; calculus of trigonometric functions; differential equations; Taylor polynomials. Applications in business, economics and the life and social sciences. Prerequisite: MTH 15 (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics Assessment process. Strongly Recommended: MTH 36 or MTH 37. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID MATH 140 (in combination with MATH 15.)

20 PRE-CALCULUS MATHEMATICS 5 UNITS

Rational functions and relations with emphasis on logical development and graphing. Solution of polynomial equations and inequalities, graphing conic sections, mathematical induction, binomial theorem; strengthening of skills in working with exponential, logarithmic, and trigonometric functions; equations, graphs, and applications. Prerequisite: Mathematics 36 or 37 (both completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics assessment process. 5 hours lecture, 0–1 hour laboratory. Transfer: CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).

20W PRE-CALCULUS WORKSHOP ¼-.5 UNIT

Laboratory, study group, collaborative workshop or computer laboratory time for Pre-calculus Mathematics. Corequisite: Mathematics 20. 1–2 hours laboratory.

25 COMPUTATIONAL METHODS FOR ENGINEERS AND SCIENTISTS 3 UNITS

(See also Engineering 25, Physics 25)
Methodology and techniques for solving engineering/science problems using numerical-analysis computer-application programs MATLAB and EXCEL. Technical computing and visualization using MATLAB software. Examples and applications from applied-mathematics, physical-mechanics, electrical circuits, biology, thermal systems, fluid systems, and other branches of science and engineering. Prerequisite: Mathematics 1. Strongly recommended: Computer Application System 8 or Computer Science 8. May not receive credit if Engineering 25 or Physics 25 has been completed. 2 hours lecture, 3 hours laboratory. Transfer: CSU; UC.

31 COLLEGE ALGEBRA 3 UNITS

Preparation for Calculus for Business and Social Science students. Functions and graphs; polynomials, rational functions, exponential and logarithmic functions; circles, parabolas, binomial theorem, sequences and series. Solving rational, radical, quadratic in form, exponential and logarithmic equations. Prerequisite: Mathematics 54, 54L, 55, or 55L (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Early Assessment Program or an appropriate skill level demonstrated through the mathematics assessment process. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).

**31W COLLEGE ALGEBRA WORKSHOP ¼-.5 UNIT**

Laboratory, study group, collaborative workshop or computer laboratory time for College Algebra. Corequisite: Mathematics 31. 1–2 hours laboratory.

33 FINITE MATHEMATICS 4 UNITS

Straight lines, systems of linear equations, matrices, systems of linear inequalities, linear programming, mathematics of finance, sets and Venn diagrams, combinatorial techniques and an introduction to probability. Applications in business, economics and the social sciences. Prerequisite: Mathematics 55, or 55L (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Early Assessment Program or an appropriate skill level demonstrated through the Mathematics assessment process. 4 hours lecture, 0–1 hour laboratory. Transfer: CSU; UC; CSU/GE; IGETC.

33W FINITE MATHEMATICS WORKSHOP ¼-.5 UNIT

Laboratory, study group, collaborative workshop or computer laboratory time for Finite Mathematics. Corequisite: Mathematics 33. 1–2 hours laboratory.

36 TRIGONOMETRY 3 UNITS

Plane trigonometry. Includes circular and right triangle trigonometric functions; trigonometric equations, graphs and identities; triangle solutions. Polar coordinates. Prerequisite: Mathematics 57 and Mathematics 55, or 55L (all completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics Assessment process. May not receive credit if Math 37 has been completed. 3 hours. Transfer: CSU; CSU/GE.

37 TRIGONOMETRY WITH AN EMPHASIS ON ITS GEOMETRIC FOUNDATIONS 5 UNITS

Plane trigonometry, with topics from plane geometry. Contains the entire subject content of Mathematics 36. Includes circular and right triangle trigonometric functions; trigonometric equations, graphs and identities; triangle solutions. Polar coordinates. Also includes congruence, properties of polygons, parallel lines, similarity, areas, volumes, and coordinate geometry. Prerequisite: Mathematics 55, or 55L (both completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics Assessment process. May not receive credit if Mathematics 36 has been completed. 5 hours. Transfer: CSU; CSU/GE.

37W TRIGONOMETRY WITH AN EMPHASIS ON ITS GEOMETRIC FOUNDATIONS WORKSHOP ¼-.5 UNIT

Laboratory, study group, collaborative workshop or computer laboratory time for Trigonometry with an Emphasis on its Geometric Foundations. Corequisite: Mathematics 37. 1–2 hours laboratory.

41 NUMBER SYSTEMS 3 UNITS

Development of quantitative reasoning skills through exploration of mathematical topics. Topics include structure of numeration systems including the real number system and its subsystems, number theory, and computational algorithms. Prerequisite: Mathematics 53, 53B, 54, 54L, 55, 55L (each completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Early Assessment Program or an appropriate skill level demonstrated through the Mathematics assessment process. 3 hours. Transfer: CSU; UC; CSU/GE.

43 INTRODUCTION TO PROBABILITY AND STATISTICS 4 UNITS

Descriptive statistics, including measures of central tendency and dispersion; elements of probability; tests of statistical hypotheses (one and two populations); correlation and regression; applications in various fields. Introduction to the use of a computer software package to complete both descriptive and inferential statistics problems. Prerequisite: Mathematics 54, 54L, 55, or 55L or an appropriate skill level demonstrated through the Early Assessment Program or the equivalent (completed with a grade of "C" or higher), or an appropriate skill level demonstrated through the mathematics assessment process. May not receive credit if Mathematics 35 has been completed. Strongly recommended: Eligibility for English 1A. May not receive credit if Mathematics 35 has been completed. 4 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).

43W INTRODUCTION TO PROBABILITY AND STATISTICS WORKSHOP ¼-.5 UNITS

Laboratory, study group, collaborative workshop or computer laboratory time for Introduction to Probability and Statistics. Corequisite: Mathematics 43. 1–2 hours laboratory.

47 MATHEMATICS FOR LIBERAL ARTS 3 UNITS

An introduction to a variety of mathematical concepts for students interested in liberal arts. Focus is on using mathematics to help make informed decisions. Applications include voting practices, apportionment and personal finance. Prerequisite: MTH 54 or MTH 54L or MTH 55 or MTH 55L (each completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Early Assessment Program or an equivalent course or an appropriate skill level demonstrated through the mathematics assessment process. 3 hours. Transfer: CSU; UC.

53 APPLIED ALGEBRA AND DATA ANALYSIS 6 UNITS

Equations and formulas; linear, exponential, logarithmic and variation functions; measurement and conversion of units; exponents and scientific notation; introduction to descriptive statistics including graphical methods; introduction to probability. Intended for students who do not need calculus. Prerequisite: MTH 104 (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics Assessment process. 6 hours lecture, 1 hour laboratory. Strongly Recommended: ENGL 102 or, ENGL 101B.



53A ELEMENTARY APPLIED ALGEBRA AND DATA ANALYSIS 3 UNITS

Equations and formulas; linear functions; scatterplots and linear models; measurement and conversion of units; proportional reasoning and problem solving. Intended for students who do not need calculus. Prerequisite: MTH 104 (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics Assessment process. Strongly Recommended: ENGL 102 or , ENGL 101B. 3 hours lecture, 1 hour laboratory.

53B INTERMEDIATE APPLIED ALGEBRA AND DATA ANALYSIS 3 UNITS

Formulas; inverse, exponential, logarithmic functions, variation function; introduction to descriptive statistics including graphical methods; introduction to probability. Intended for students who do not need calculus. Prerequisite: MTH 53A (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics Assessment process. Strongly Recommended: ENGL 102 or ENGL 101B.

54 APPLIED INTERMEDIATE ALGEBRA 5 UNITS

An intermediate algebra course for students not taking college algebra and calculus. Functions in the context of real data; rates of change of linear functions; linear systems; laws of rational exponents; mathematical models (including graphs) using exponential, logarithmic, power, and linear, quadratic and other polynomial functions; solution of exponential and logarithmic equations. Prerequisites: Mathematics 65, or 65L (completed with a grade of C or higher) or an appropriate skill level demonstrated through the Early Assessment Program or an appropriate skill level demonstrated through the Mathematics Assessment process. May not receive credit if Mathematics 54L has been completed. 5 hours lecture, 0–1 hour laboratory.

54L APPLIED INTERMEDIATE ALGEBRA WITH LAB 5.5 UNITS

Functions in the context of real data; rates of change of linear functions; linear systems; laws of rational exponents; mathematical models (including graphs) using exponential, logarithmic, power, and linear, quadratic and other polynomial functions; solution of exponential and logarithmic equations. Includes laboratory and study group time to reinforce and enhance the learning of applied intermediate algebra skills. Prerequisites: Mathematics 65, or 65L (completed with a grade of C or higher) or an appropriate skill level demonstrated through the Early Assessment Program or an appropriate skill level demonstrated through the Mathematics Assessment process. May not receive credit if Mathematics 54 has been completed. 5 hours lecture, 1.5 hours laboratory.

55 INTERMEDIATE ALGEBRA 5 UNITS

Concepts involving complex numbers, quadratic equations, parabolas and circles, functions and their graphs, systems of equations, rational exponents, radical equations, absolute value equations and inequalities, exponential and logarithmic functions and equations. 5 hours lecture. Prerequisite: MTH 65 or , MTH 65L (completed with a grade of "C" or higher) an appropriate skill level demonstrated through the Mathematics Assessment process. May not receive credit if Mathematics 55A and Mathematics 55B or Mathematics 55L have been completed.

55L INTERMEDIATE ALGEBRA WITH LABORATORY 5.5 UNITS

Concepts involving complex numbers, quadratic equations, parabolas and circles, functions and their graphs, systems of equations, rational exponents, radical equations, absolute value equations and inequalities, exponential and logarithmic functions and equations. Includes laboratory time designed to reinforce concepts and enhance problem-solving skills. 1 hours lecture, 1 hour laboratory. Prerequisite: MTH 65 or , MTH 65L (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics Assessment process. May not receive credit if Mathematics 55A and Mathematics 55B or Mathematics 55 have been completed.

55W INTERMEDIATE ALGEBRA WORKSHOP ¼–.5 UNIT

Laboratory, study group, collaborative workshop or computer laboratory time for Intermediate Algebra. Corequisite: Mathematics 55. 1–2 hours laboratory.

57 PLANE GEOMETRY 3 UNITS

Topics in plane geometry. Includes congruence, similarity, parallel lines, and properties of polygons and circles. Prerequisite: Mathematics 65, 65B or 65L (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics Assessment process. 3 hours.

57W PLANE GEOMETRY WORKSHOP ¼–.5 UNIT

Laboratory, study group, collaborative workshop or computer laboratory time for Plane Geometry. Corequisite: Mathematics 57. 1–2 hours laboratory.

65 ELEMENTARY ALGEBRA 5 UNITS

Elementary concepts, including signed numbers, integral exponents, polynomials and rational expressions; linear, quadratic and rational equations; linear inequalities; introduction to graphs and set theory; systems of equations. 5 hours lecture. Prerequisite: MTH 104 (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics Assessment process. May not receive credit if Mathematics 65L or 65A and 65B have been completed.

65A ELEMENTARY ALGEBRA A**3 UNITS**

Concepts covered in the first half of Mathematics 65, including signed numbers, linear equations and inequalities; introduction to graphs; set theory. Designed for those with no previous algebra background. Prerequisite: MTH 104 (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics Assessment process. May not receive credit if Mathematics 65 or 65L has been completed.

65B ELEMENTARY ALGEBRA B**3 UNITS**

Concepts covered in the second half of Mathematics 65, including an introduction to polynomials, factoring, rational expressions and complex fractions; quadratic and rational equations; Solving quadratic equations. Prerequisite: MTH 65A (completed with a grade of "C" or higher) May not receive credit if Mathematics 65 or 65L has been completed.

65L ELEMENTARY ALGEBRA WITH LABORATORY**5.5 UNITS**

Elementary concepts, including signed numbers, integral exponents, polynomials and rational expressions; linear, quadratic and rational equations; linear inequalities; introduction to graphs and set theory; systems of equations. Includes laboratory time designed to reinforce concepts and enhance problem-solving skills. Prerequisite: MTH 104 (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics Assessment process. May not receive credit if Mathematics 65 or 65A and 65B have been completed. 5 hours lecture., 1 hour laboratory.

65W ELEMENTARY ALGEBRA WORKSHOP**¼-.5 UNIT**

Laboratory, study group, collaborative workshop or computer laboratory time for Elementary Algebra. Corequisite: Mathematics 65. 1–2 hours laboratory.

103 BASIC MATHEMATICS**3 UNITS**

Fundamental concepts in arithmetic, including fractions, decimals, ratios, proportions, percents; order of operations, measurement, and geometric formulas. 3 hours lecture, 1 hour laboratory.

104 PREALGEBRA**3 UNITS**

Brief review of arithmetic, including fractions, decimals, percents; order of operations, and geometric formulas. Introduction to algebraic concepts, including signed numbers, properties of real numbers, algebraic expressions, linear equations, and graphs. Prerequisite: Mathematics 103 (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics Assessment process. 3 hours lecture, 1 hour laboratory.

104W PREALGEBRA WORKSHOP**¼-.5 UNIT**

Laboratory, study group, collaborative workshop or computer laboratory time for Prealgebra. Corequisite: Mathematics 104. 1–2 hours laboratory.

122 MATH LABORATORY**.5–1 UNIT**

Provides mathematics students an opportunity to study a mathematics course with tutorial assistance from an instructor, student tutors, and fellow classmates. Students may also use a software program and work on problems at their own pace. 1.5–3 hours laboratory.

201 MATH JAM A**.5 UNIT**

Review of pre-algebra and study skills required to reassess into a mathematics course or to increase success in your next mathematics course.

202 MATH JAM B**.5 UNIT**

Review of elementary and intermediate algebra and study skills required to reassess into a mathematics course or to increase success in your next mathematics course.

203 MATH JAM C**.5 UNIT**

Review of precalculus and study skills required to reassess into a mathematics course or to increase success in your next mathematics course.





MEDICAL ASSISTING (MEDA)

DEGREE:

AA—MEDICAL ASSISTING

CERTIFICATE OF ACHIEVEMENT:

MEDICAL ASSISTING

Graduates of the Medical Assisting programs at Chabot College will have an opportunity to apply for employment as Medical Assistants in an ambulatory care setting. Medical Assistants are multi-skilled allied health professionals who can perform a variety of administrative and clinical skills. Students completing in sequence the 31.7 units for the accredited Medical Assisting Certificate program are eligible to sit the American Association of Medical Assistants (AAMA) Certified Medical Assistant (CMA®) exam.

MEDICAL ASSISTING ASSOCIATE IN ARTS DEGREE

The Certificate Program in Medical Assisting is part of the Associate of Arts degree in Medical Assisting is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) 25400 US Highway 19 N, Suite 158, Clearwater, FL 33763, (727) 210-2350, www.caahep.org, upon recommendation of the Medical Assisting Education Review Board (MAERB)) of the American Association of Medical Assistants' Endowment (AAMAE). Completion of this program qualifies the student to take the National Certification examination CMA-AAMA®-Certified Medical Assistant Exam. Graduates of the Medical Assisting programs at Chabot College will have an opportunity to apply for employment as entry level Medical Assistants in an ambulatory care setting. Medical Assistants are multi-skilled allied health professionals who can perform a variety of administrative and clinical skills. Students completing in sequence the 31 units for the accredited Medical Assisting Certificate program are eligible to sit the American Association of Medical Assistants (AAMA) Certified Medical Assistant (CMA-AAMA®) exam.

CAREER OPPORTUNITIES IN MEDICAL ASSISTING

Graduates of the Medical Assisting programs at Chabot College will have an opportunity to apply for employment as entry level Medical Assistants in an ambulatory care setting.

PROGRAM-LEVEL OUTCOMES

1. Prepare competent entry-level professional medical assistance in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.
2. Respond to the demand of the rapidly changing information technology by incorporating computer literacy in health care to include electronic health records and electronic practice management.
3. Use critical thinking skills in managing care of patients.
4. Acquire and practice the skills for the Certified Medical Assistant examination (CMA-AAMA).

YEAR ONE		UNITS
HLTH 51A	Basic Medical Terminology	4
PSY 1	General Psychology	3
HLTH 60	Responding to Emergencies	1
BIOL 50	Anatomy and Physiology	4
BUS 7	Accounting for Small Business	3
CAS 50	Introduction to Computer Application Systems	3
	or	
CSCI 8	Computer Literacy	3
HLTH 51B	Disease Process and Advanced Medical Terminology	4

YEAR TWO		UNITS
MEDA 70A	Clinical Skills For The Medical Assistant I	3
MEDA 71A	Administrative Skills I	2
MEDA 72A	Electronic Health Record Part 1	1
MEDA 75	Administration of Medications for the Medical Assistant	3
MEDA 70B ++	Clinical Skills For The Medical Assistant 2	3
MEDA 71B ++	Administrative Skills 2	2
MEDA 72B ++	Electronic Health Record Part 2	1
MEDA 73 ++	Clinical Experience Practicum	4
MEDA 74 ++	Clinical Experience Seminar	1

++Offered only in the Spring term

GENERAL EDUCATION COURSES

For specific General Education courses refer to catalog section on A. A. Graduation Requirements

Prior to placement at Clinical Sites (MEDA 73), the student must submit medical, dental and immunization records. A background check is also required. Forms will be distributed in MEDA 70A.

To progress in the Medical Assisting Certificate Program and to graduate from the program, students must earn a minimum grade of "C" in each course.

TOTAL UNITS	42
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**MEDICAL ASSISTING
CERTIFICATE OF ACHIEVEMENT**

The Certificate Program in Medical Assisting is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), 1361 Park Street, Clearwater, Florida 33756, (727) 210-2350, www.caahep.org, on recommendation of the Medical Assisting Education Review Board (MAERB)) of the American Association of Medical Assistants' Endowment (AAMAE). Completion of this program qualifies the student to take the National Certification examination CMA-AAMA®-Certified Medical Assistant Exam. Graduates of the Medical Assisting programs at Chabot College will have an opportunity to apply for employment as Medical Assistants in an ambulatory care setting. Medical Assistants are multi-skilled allied health professionals who can perform a variety of administrative and clinical skills. Students completing in sequence the 31 units for the accredited Medical Assisting Certificate program are eligible to sit the American Association of Medical Assistants (AAMA) Certified Medical Assistant (CMA-AAMA®) exam.

CAREER OPPORTUNITIES IN MEDICAL ASSISTING

Graduates of the Medical Assisting programs at Chabot College will have an opportunity to apply for employment as Medical Assistants in an ambulatory care setting.

PROGRAM-LEVEL OUTCOMES

1. Prepare competent entry-level professional medical assistance in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.
2. Respond to the demand of the rapidly changing information technology by incorporating computer literacy in health care to include electronic health records and electronic practice management.
3. Use critical thinking skills in managing care of patients.
4. Acquire and practice the skills for the Certified Medical Assistant examination (CMA-AAMA).

FIRST SEMESTER

Graduates of the Medical Assisting programs at Chabot College will have an opportunity to apply for employment as Medical Assistants in an ambulatory care setting.

FALL SEMESTER

	UNITS
HLTH 51A Basic Medical Terminology	4
CAS 50 Introduction to Computer Application Systems	3
	or
CAS 88A Microsoft Word I	3
	or
CSCI 8 Computer Literacy	3
MEDA 70A * Clinical Skills For The Medical Assistant I	3
MEDA 71A Administrative Skills I	2
MEDA 75 Administration of Medications for the Medical Assistant	3
MEDA 72A Electronic Health Record Part 1	1

Semester 2 involves Clinical experience. Prior to clinical experience the student must submit Medical, Dental and Immunization records. A background check and drug screen is also required. The CPR card requires is an American Heart Association Healthcare provider card that may be obtained though Chabot College Community Education or an off campus provider

SPRING SEMESTER

	UNITS
HLTH 51B Disease Process and Advanced Medical Terminology	4
MEDA 70B Clinical Skills For The Medical Assistant 2	3
MEDA 71B Administrative Skills 2	2
MEDA 73* Clinical Experience Practicum	4
MEDA 74 Clinical Experience Seminar	1
MEDA 72B Electronic Health Record Part 2	1

To progress in the Medical Assisting Certificate Program and to graduate from the program, students must earn a minimum grade of "C" in each course.

TOTAL UNITS

29

*Prior to placement at Clinical Sites (MEDA 73), the student must submit medical, dental and immunization records. A background check is also required. Forms will be distributed in MEDA 70A.

MEDICAL ASSISTING (MEDA)

70A CLINICAL SKILLS FOR THE MEDICAL ASSISTANT I

3 UNITS

Introduction to the clinical role of the Medical Assistant. Includes basic and advanced skills which are utilized when assisting the physician and performing direct patient care. Strongly Recommended: HLTH 51A and , CAS 50 or CSCI 8 may be taken concurrently if not completed prior. Corequisite: MEDA 71A , MEDA 72A and , MEDA 75. Transfer: CSU.

70B CLINICAL SKILLS FOR THE MEDICAL ASSISTANT II

3 UNITS

Continuation of Medical Assisting 70A. Basic and advanced clinical skills common to medical offices and clinics. Use of advanced clinical skills while assisting the physician and performing direct patient care. Prerequisite: HLTH 51A (completed with a grade of "C" or higher), MEDA 70A (completed with a grade of "C" or higher) , MEDA 75 (completed with a grade of "C" or higher). Strongly Recommended: HLTH 51B may be taken concurrently if not completed prior. Corequisite: MEDA 71B, MEDA 72B, MEDA 73 and , MEDA 74. Transfer: CSU.

71A ADMINISTRATIVE SKILLS I

2 UNITS

Administrative Medical Assisting skills and theory to include the healthcare industry, the medical assisting profession, interpersonal skills and human behavior, law and ethics, computer concepts, telephone techniques, scheduling appointments, patient reception and processing office/clinic environment and daily operations, written communication and mail processing, medical record management. Corequisite: Health 51A. 1 hour lecture, 3 hours laboratory. Transfer: CSU.

71B ADMINISTRATIVE SKILLS II 2 UNITS

Administrative Medical Assisting skills which include medical coding, health insurance, billing, collections, practice finances, confidentiality and development of life skills. Prerequisite: Medical Assisting 71A (completed with a grade of "C" or higher) 1 hour lecture, 3 hours laboratory. Transfer: CSU.

72A ELECTRONIC HEALTH RECORD PART 1 1 UNITS

To prepare the student medical assistant with knowledge of the Electronic Health Record Managing the revenue cycle, and documenting patient encounters. Strongly Recommended: HLTH 51A and , CAS 50 or CSCI 8 should be taken prior but can be taken concurrently. Corequisite: MEDA 70A , MEDA 71A and , MEDA 75. Transfer: CSU.

72B ELECTRONIC HEALTH RECORD PART 2 1 UNITS

To prepare the student medical assistant with knowledge of the Electronic Health Record. Charge capture and billing encounters, producing reports and follow up. Meaningful use 1 and 2. Prerequisite: MEDA 72A (completed with a grade of "C" or higher). Strongly Recommended: HLTH 51B can be taken concurrently if not taken prior. Corequisite: MEDA 70B , MEDA 71B , MEDA 73 and , MEDA 74. Transfer: CSU.

73 CLINICAL EXPERIENCE (PRACTICUM) 4 UNITS

Application of principles and skills through participation in a simulated employment experience. Assisting the physician under close supervision in a health maintenance organization, or physician's office or clinic. Prerequisite: Medical Assisting 70A, 71A, 75. Corequisite: Medical Assisting 74. 16 hours per week. Total weeks—13. Transfer: CSU.

74 CLINICAL EXPERIENCE SEMINAR 1 UNIT

Discussion and analysis of clinical experience in a clinic setting or private physician's office. Corequisite: Medical Assisting 73. 1 hour. Transfer: CSU.

75 ADMINISTRATION OF MEDICATIONS FOR THE MEDICAL ASSISTANT 3 UNITS

Medication administration including study of medications, drug research, drug therapy, immunizations and skin tests. Safe preparation, administration, and documentation of medication given by oral, sublingual, inhalation, topical, vaginal, rectal, transdermal, intramuscular, subcutaneous and intradermal routes. Strongly Recommended: HLTH 51A can be taken concurrently if not completed prior. Corequisite: MEDA 70A , MEDA 71A and , MEDA 72A. Transfer: CSU.

MICROBIOLOGY

(See Biological Sciences)

MUSIC**DEGREE:**

AA—MUSIC

AA-T—MUSIC

CERTIFICATE:

CERTIFICATE OF PROFICIENCY—AUDIO RECORDING

CERTIFICATE OF PROFICIENCY—MUSIC PRODUCTION

MUSIC

ASSOCIATE IN ARTS DEGREE

YEAR ONE		UNITS
MUSL 2A	Harmony and Musicianship I	4
MUSA 40	Applied Lessons	1
	Music Performance Option *	1
MUSL 2B	Harmony and Musicianship II	4
MUSA 40	Applied Lessons	1
MUSA 21M	Class Piano for Majors	1
	Music Performance Option *	1
YEAR TWO		UNITS
MUSL 2C	Harmony and Musicianship III	4
MUSA 40	Applied Lessons	1
	Music Performance Option *	1
MUSL 2D	Harmony and Musicianship IV	4
MUSA 40	Applied Lessons	1
MUSL 3	World Music	3
	Music Performance Option *	1

GENERAL EDUCATION COURSES

For specific General Education courses refer to catalog section on A.A. Graduation Requirements.

TOTAL UNITS 28

*Major Ensemble Option

Music (MUSP) 12: Wind Ensemble

Music (MUSP) 13: Wind Symphony

Music (MUSP) 14: Jazz Lab

Music (MUSP) 15: Jazz Ensemble

Music (MUSP) 16: Jazz Orchestra

Music (MUSP) 44 Concert Choir

Music (MUSP) 45 Chamber Choir



MUSIC

ASSOCIATE IN ARTS FOR TRANSFER DEGREE

The Associate in Arts in Music for Transfer Degree offers students a focus of study in Music Performance and/or Music Education as well as provides a broad exposure to additional facets of the subject area. The degree prepares students for study as an upper division student/junior by combining the theoretical concepts with practical skill building courses to prepare the student with competency in the major. The courses in this area examine the nature of the fine and applied arts through analysis, synthesis, composition, performance, and technical development. Students will develop techniques appropriate to the art form, engage in performance of the music, examine aesthetic valuing, and participate in a creative expression of the arts. Recipients of the Associate in Arts in Music for Transfer Degree are guaranteed admissions with junior standing as a campus of the California State University system.

PROGRAM LEARNING OUTCOMES

1. Examine music as a form of expression that reflects personal creativity as well as social, historical, political, religious and cultural changes and influences.
2. Examine and discuss music in relationship to other forms of human expression, including art, architecture, philosophy, religion, and politics.
3. Demonstrate proficiency in communication technologies for the purposes of research, composition, listening, performance, recording, and cross-discipline collaboration.

REQUIRED CORE (20 UNITS)

	UNITS
Theory Courses	
MUSL 2A Harmony and Musicianship I	4
MUSL 2B Harmony and Musicianship II	4
MUSL 2C Harmony and Musicianship III	4
MUSL 2D Harmony and Musicianship IV	4

APPLIED MUSIC (4 SEMESTERS @ 1 UNIT EACH)

	UNITS
MUSA 40 Applied Lessons	1

LARGE ENSEMBLE (4 SEMESTERS @ 1 UNIT EACH)

	UNITS
MUSP 12 Wind Ensemble	1
MUSP 13 Wind Symphony	1
MUSP 14 Jazz Lab	1
MUSP 15 Jazz Ensemble	1
MUSP 16 Jazz Orchestra	1
MUSP 44 Concert Choir	1
MUSP 45 Chamber Choir	1

GENERAL EDUCATION COURSES

Required Major Courses: 24 units

CSU GE or IGETC (CSU) requirements: 37-39 units

CSU transfer Electives as needed to reach 60 CSU transferable units.

TOTAL UNITS: 60 Units

All courses making up the minimum must be transferable to CSU, and a minimum GPA of 2.0 must be maintained.

TOTAL UNITS **24**

AUDIO RECORDING

CERTIFICATE OF PROFICIENCY

This Certificate of Proficiency program is designed for students who wish to learn or enhance their skills in art of audio recording. Housed in the state-of-the-art Chabot College recording studios and music technology lab, students will learn how to record, edit and mix multi-track recordings on industry-standard software platforms in an extremely hands-on environment.

CAREER OPPORTUNITIES IN MUSIC RECORDING TECHNOLOGY

Students who come through this certificate program will have career opportunities as an audio recording engineer. As the modern music industry shifts more towards an independent or DIY marketplace for studio recording, career opportunities for music recordists are largely freelance. Nonetheless, the labor market data for audio recording engineers shows positive job growth in the region, particularly in the East Bay. Beyond music recording, students will emerge with a very solid technical foundation that will allow for more institutionally-oriented jobs in audio recording and manipulation (editing) for visual media. They will acquire high-level recording and mixing skills in industry-standard software platforms that will allow for multiple entry points into the job market outside of the traditional music studio recording careers.

CORE COURSES

	UNITS
MURT 20 Digital Audio Workstation	3
MURT 21 Audio Recording I	3
MURT 23 Audio Recording II	3
MURT 24 Advanced Mixing Techniques	3
MURT 25 Live Concert Sound	1
MUSL 8 History of Rock and Roll and Popular Music	3

TOTAL UNITS **16**

MUSIC PRODUCTION

CERTIFICATE OF PROFICIENCY

This Certificate of Proficiency program is designed for students who wish to learn or enhance their skills in art of music production. Housed in the state-of-the-art Chabot College recording studios and music technology lab, students will learn how to program drum tracks and background beats, create multi-layered electro-acoustic compositions, contemporary musical structures, and work on sounds for visual media on industry-standard software platforms in an extremely hands-on environment.

CAREER OPPORTUNITIES IN MUSIC RECORDING TECHNOLOGY

In today's modern music industry, the term "music producer" can mean many things. That said, the overwhelming profile of musicians who earn income as a music producer will, however, fit two descriptions: 1) freelance; and 2) equally proficient in matters of technical and aesthetic craftsmanship. As such, this program will focus on enhancing the core skills that make for technically proficient, creatively excellent freelance professionals who will be ready for the highly situational, unpredictable and self-motivated demands of work as a music producer.

CORE COURSES

	UNITS
MURT 20 Digital Audio Workstation	3
MURT 22A Electronic Music I	3
MURT 22B Electronic Music II	3
MURT 31 Sound Design	3
MUSL 28 Musical Structure & Songwriting	3
MUSA 20A Guitar I	1
or	
MUSA 21A Piano I	1
or	
MUSA 22A Jazz Piano I	1
TOTAL UNITS	16

MUSIC**LITERATURE, THEORY AND MUSICIANSHIP
(MUSL)****1 INTRODUCTION TO MUSIC 3 UNITS**

Music for enjoyment and understanding through informed listening, analysis, evaluation and discernment of musical elements, forms, and repertoire. Attendance at concerts and listening to a variety of music is required. 3 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: MUS 100.

2A HARMONY AND MUSICIANSHIP I 4 UNITS

Study of the fundamentals of Western music applicable to both classical and popular styles: notation; fundamental theoretical concepts; musicianship skills including sight singing, rhythmic training, ear training, dictation, and keyboard realization; and basic compositional skills. Strongly recommended: MUSL 6 or equivalent skills. 2 hours lecture; 4 hours laboratory. Transfer: CSU; UC; CSU/GE; C-ID: MUS 120.

2B HARMONY AND MUSICIANSHIP II 4 UNITS

Continues diatonic harmony through part writing and ear training exercises as typified by musical practice from 1600 to the present. Continues solfeggio, chord recognition, melodic and rhythmic dictation, diatonic four-part voice leading, and figured bass realization. Introduces harmonic dictation, cadential elaboration, non-dominant seventh chords, and tonicization/modulation to the dominant. Prerequisite: MUSL 2A (completed with a grade of "C" or higher). 2 hours lecture, 4 hours laboratory. Transfer: CSU; UC; C-ID: MUS 130.

2C HARMONY AND MUSICIANSHIP III 4 UNITS

Elements of both diatonic and chromatic harmony through part writing and ear training exercises as typified by musical practice from 1600 to the present. Continues solfeggio; chord recognition; melodic, rhythmic, and harmonic dictation; and figured bass realization. Introduces chorale dictation, chromatic four-part voice leading, chord progression and succession techniques, non-chord tones using figuration and rhythmic displacement, and mode mixture. Prerequisite: MUSL 2B (completed with a grade of "C" or higher). 2 hours lecture, 4 hours laboratory. Transfer: CSU; UC; C-ID: MUS 140.

2D HARMONY AND MUSICIANSHIP IV 4 UNITS

Study of advanced chromatic harmony, 20th century harmonic practices, large musical structures, style composition, harmonic, structural, and stylistic analysis, and musicianship skills including sight singing, rhythmic training, dictation, and keyboard realization. Prerequisite: MUSL 2C (completed with a grade of "C" or higher). 2 hours lecture, 4 hours laboratory. Transfer: CSU; UC; C-ID: MUS 150.

3 WORLD MUSIC 3 UNITS

The study of the folk and art music of world cultures. Includes the traditional music of Sub-Saharan Africa, Middle East, China, Japan, Indonesia, India, Latin America, Europe, and Native America. Attendance at four concerts in the San Francisco Bay Area required. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

4 JAZZ STYLES 3 UNITS

History, trends, and influences of the phenomenon of jazz beginning with pre-Dixieland early 1900's covering the various eras including Swing, BeBop and post Be-Bop to present day. Attendance at concerts and listening to a variety of music is required. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

5 AMERICAN CULTURES IN MUSIC 3 UNITS

Music in twentieth century United States through the study of contributions of three selected groups from the following: African-Americans, Latin-Americans, Asian-Americans, European-Americans, and Native Americans. Emphasis on understanding diverse styles, and on integrating these styles into American music. Concert, religious, and folk-pop music will be included. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

6 BASIC MUSIC SKILLS 3 UNITS

Essentials of music through notation, time elements, melody, harmony, and tonality, texture, dynamics and knowledge of the keyboard. Sight singing and ear training. 1 hour lecture, 4 hours laboratory. Transfer: CSU; UC; C-ID: MUS 110.

8 HISTORY OF ROCK AND ROLL AND POPULAR MUSIC 3 UNITS

A cultural survey of original American music traditions, forms and trends influenced by cultural, socio-economic, socio-political and economic changes including blues, jazz, early rock, the "British invasion," rap, hip hop culture, Latino rock, heavy metal, jazz-rock fusion, electronic, modern rock, and pop. 3 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; IGETC.

28 MUSICAL STRUCTURE AND SONGWRITING 3 UNITS

Study of contemporary rock and popular music theory. Common chord progressions, harmonic development, song forms, lyric structure and analysis, orchestration and analysis of studio recording effects on important popular music styles of the mid to late 20th Century. Prerequisite: MUSL 6. 1 hour lecture, 3 hours laboratory. Transfer: CSU

42A JAZZ THEORY I**2 UNITS**

Developing an understanding of traditional jazz nomenclature including chord symbols, chord/scale relationships, and jazz harmony. Various scales, their modes and their applications will be addressed as well as their applications to harmonic progressions common to the jazz idiom. Strongly Recommended: MUSL 6 (completed with a grade of "C" or higher). 2 hours lecture, 1 hour laboratory. Transfer: CSU.

42B JAZZ THEORY II**2 UNITS**

Jazz composition and arranging to gain and/or solidify a working knowledge of standard concepts pertaining to writing and arranging for the small to large ensemble. Emphasis will be placed on achieving the following: shapes and voicings used for different combinations of melody instruments; writing idiomatic arrangements of "standards" in the jazz idiom and standard "industry-style" formatting of scores and parts. Prerequisite: MUSL 42A (completed with a grade of "C" or higher). 2 hours lecture, 1 hour laboratory. Transfer: CSU.

MUSIC PERFORMANCE (MUSP)**12 WIND ENSEMBLE****1 UNIT**

(May be repeated 3 times.)

Band repertoire of all styles and periods. Emphasis on group participation and public performance. Attendance at all scheduled performances required. Enrollment subject to a standardized audition demonstrating musical ability and technical proficiency at a level suitable to the course level. 4 hours laboratory. Transfer: CSU; UC; C-ID: MUS 180.

13 WIND SYMPHONY**1 UNIT**

(May be repeated 3 times.)

Select and limited ensemble designed for advanced musicians seeking continued study in advanced band repertoire from all periods. Enrollment subject to a standardized audition demonstrating musical ability and technical proficiency at a level suitable to the course level. 4 hours laboratory. Transfer: CSU; UC; C-ID: MUS 180.

14 JAZZ LAB**1 UNIT**

(May be repeated 3 times.)

For instrumentalists who want experience in performing and interpreting small-group literature. The music literature will cover important aspects of Jazz band development and works of all styles and periods. Emphasis will be on articulations, stylistic differences, and common performance practices of the various periods of music. Enrollment by audition only. 4 hours laboratory. Transfer: CSU; UC; C-ID: MUS 180.

14A JAZZ LAB I**1 UNIT**

(May be repeated 3 times.)

Reading, preparation and performance of contemporary jazz music. Opportunity to apply improvisation techniques in a small group setting. Enrollment subject to a standardized audition demonstrating musical ability and technical proficiency at a level suitable to the course level. Enrollment by audition only. 4 hours laboratory. Transfer: CSU; UC.

14B JAZZ LAB II**1 UNIT**

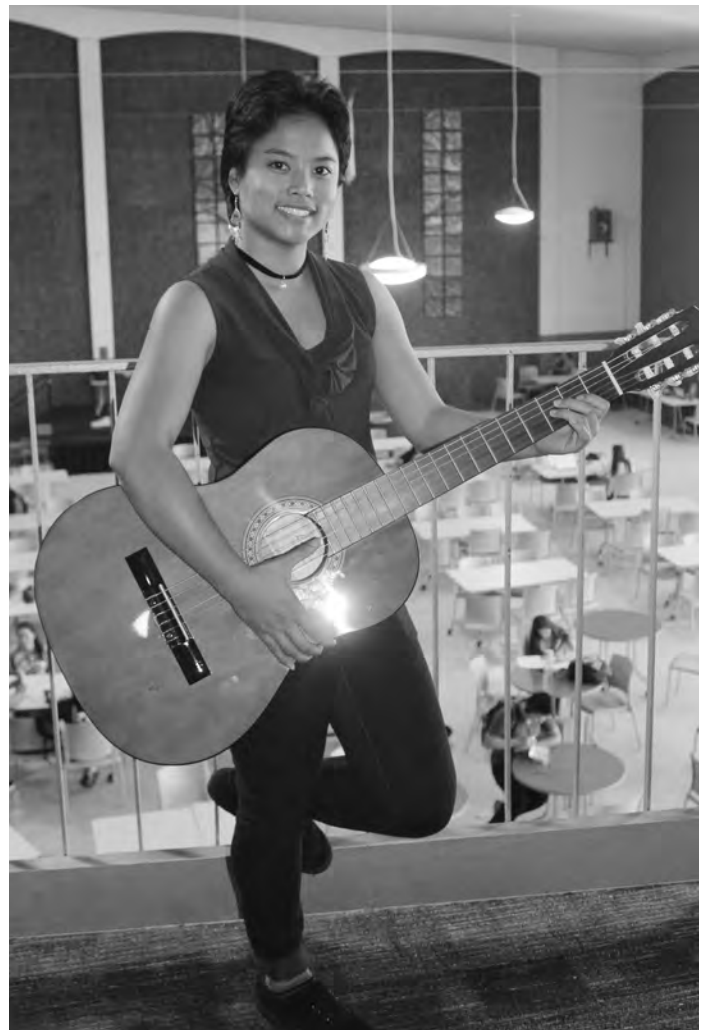
(May be repeated 3 times.)

For continuing instrumentalists who want experience in performing and-interpreting small group literature. The music literature will cover important aspects of Jazz band development and works of all styles and periods. Emphasis will be on articulations, stylistic differences, and common performance practices of the various periods of music. Enrollment by audition only. Prerequisite: MUSP 14A (completed with a grade of "C" or higher). 4 hours laboratory. Transfer: CSU; UC.

15 JAZZ ENSEMBLE I**1 UNIT**

(May be repeated 3 times.)

Reading, preparation and performance of contemporary jazz music arranged for standard Big Band. The band plays various concerts and festivals. Students develop ability to play various jazz styles, sight read, improvise, and play both as members of a section and as soloists. Enrollment by audition only. 4 hours laboratory. Transfer: CSU; UC; C-ID: MUS 180.



**16 JAZZ ORCHESTRA I****1 UNIT**

(May be repeated 3 times.)

Jazz Orchestra I is a performance organization that rehearses and performs a variety of contemporary jazz literature. Students develop ability to play various jazz styles, sight read, improvise, and play both as members of a section and as soloists. The orchestra plays various concerts and festivals. Opportunities to rehearse the orchestra as well as conduct. Enrollment by audition only. 4 hours laboratory. Transfer: CSU; C-ID: MUS 180.

18 PERCUSSION ENSEMBLE**1 UNIT**

(May be repeated 3 times)

Open to any percussionist wishing to experience ensemble playing. Topics include a variety of styles and techniques used in percussion performance. Basic music reading is required. Strongly recommended: MUSP 12 or equivalent skills. 4 hours laboratory. Transfer: CSU; UC.

41 CHAMBER WINDS**1 UNITS**

May be repeated 3 times

Chamber Winds is open to any instrumental musician wishing to experience chamber ensemble playing. Topics will include a variety of styles and techniques used in chamber performance. Enrollment subject to a standardized audition by the instructor demonstrating musical ability and technical proficiency at a level suitable to the course level. 4 hours laboratory. Transfer: CSU; UC.

44 CONCERT CHOIR**1 UNIT**

(May be repeated 3 times)

Development of vocal and musical ability to interpret and perform the highest calibre of choral literature. 4 hours laboratory. Transfer: CSU; UC; C-ID: MUS 180.

45 CHAMBER CHOIR**1 UNIT**

(May be repeated 3 times)

Development of sufficient vocal and music ability to interpret and perform a variety of vocal chamber music. Designed for the advanced singer. Enrollment subject to a standardized audition demonstrating musical ability and technical proficiency at a level suitable to the course level. 4 hours laboratory. Transfer: CSU; UC ; C-ID: MUS 180.

47 COLLEGE PRODUCTION—MUSIC**1–5 UNITS**

May be repeated 3 times

Participation in scheduled music productions. Includes music support for drama productions, college musicals, and other major performances. Enrollment is for the duration of the production. 3-15 hours laboratory. Transfer: CSU; UC

51 CONTEMPORARY MUSIC ENSEMBLE**1 UNITS**

May be repeated 3 times

The Contemporary Music Ensemble performs a variety of works written in the twentieth and twenty-first centuries in two concerts per semester. The ensemble not only prepares students for careers that include contemporary music, but helps them to become exceptional educators, advocates, and leaders in the field. Audition required. Prerequisite: Audition with instructor required. Transfer: CSU; UC.

52 GUITAR ENSEMBLE**1 UNITS**

May be repeated 3 times

This course focuses on the sight-reading, rehearsal, and performance of basic-level guitar ensemble literature. Basic note reading skills will be employed. Each member of the group will become a better musician through individual practice, listening, performance, and being an active part of the ensemble experience. New repertoire will be studied each semester. Prerequisite: Audition with instructor required. Transfer: UC.

MUSIC APPLIED (MUSA)**11 JAZZ IMPROVISATION****1 UNIT**

(May be repeated 3 times)

Major scales, chord construction, and development of melodic lines used in contemporary styles of Jazz Improvisation. Jazz literature for combos of the post Bop era using exotic scales, altered chord construction, and development of modal and intervallic concepts used in contemporary improvisation. 4 hours laboratory. Transfer: CSU; UC.

11A JAZZ IMPROVISATION I**1 UNIT**

Major scales, chord construction, and development of melodic lines used in contemporary styles of Jazz Improvisation. Jazz literature for small groups of the post Bop era. Enrollment by audition or permission of instructor. 4 hours laboratory. Transfer: CSU; UC.

11B JAZZ IMPROVISATION II**1 UNIT**

(May be repeated 2 times.)

Exotic scales, altered chord construction, and development of modal and intervallic concepts used in avant garde jazz improvisation. Techniques used in composing and arranging for small ensembles. Prerequisite: MUSA 11A (completed with a grade of "C" or higher). 4 hours laboratory. Transfer: CSU; UC.

20A GUITAR I**1 UNIT**

Beginning guitar using a combination of folk and classic approaches to playing technique, utilizing basic scales and chords in first position, and music notation. Strongly recommended: MUSL 6. 4 hours laboratory. Transfer: CSU; UC.

20B GUITAR II**1 UNIT**

Continued study and practice of the fundamentals for playing the six-string acoustic guitar. An expanded repertoire of popular songs, classical solo and ensemble music, and styles will be examined. Prerequisite: MUSA 20A (completed with a grade of "C" or higher) or equivalent. 4 hours laboratory. Transfer: CSU; UC.

21A PIANO I**1 UNIT**

Beginning piano. Contemporary and classic approaches to playing piano using basic scales, chords and music notation. 4 hours laboratory. Transfer: CSU; UC.

21B PIANO II**1 UNIT**

Development of skills in piano performance, notation, literature. Emphasis on further development of technique and performance. Prerequisite: MUSA 21A (completed with a grade of "C" or higher) or equivalent. 4 hours laboratory. Transfer: CSU; UC.

21M CLASS PIANO FOR MAJORS**1 UNIT**

Skills development for music majors and minors in playing major and minor scales, diatonic chord progressions, treble and bass clef reading, and simple hands together part playing. Strongly recommended: concurrent enrollment in MUSL 2A. 4 hours laboratory. Transfer: CSU.

22A JAZZ PIANO I**1 UNIT**

Voicings, chords, and guidelines for improvisation in the contemporary styles of the jazz pianist. Post bop-era, through modern to avant-garde piano playing in the jazz idiom. Strongly recommended, MUSL 6. 4 hours laboratory. Transfer: CSU; UC.

22B JAZZ PIANO II**1 UNIT**

(May be repeated 3 times)

Development of skills in jazz piano performance, notation, literature. Emphasis on further development of technique and performance. Prerequisite: MUSA 22A (completed with a grade of "C" or higher) or equivalent. 4 hours laboratory. Transfer: CSU; UC.

23A VOICE I**1 UNIT**

(May be repeated 3 times)

Group singing with emphasis on solo performance, tone production, breathing, diction, sight singing and interpretation of vocal literature. Strongly recommended: MUSL 6. 4 hours laboratory. Transfer: CSU; UC.

23B VOICE II**1 UNIT**

(May be repeated 3 times)

Development of skills in vocal performance, notation, literature. Emphasis on further development of technique and performance. Prerequisite: MUSA 23A (completed with a grade of "C" or higher). 4 hours laboratory. Transfer: CSU; UC.

40 APPLIED LESSONS**1 UNIT**

(May be repeated 3 times)

Individualized study of the appropriate techniques and repertoire for the specific instrument or voice being studied. The emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. Enrollment subject to a standardized audition demonstrating basic competencies in technique and musicianship in their major performance medium. Corequisite: MUSP 12 or 13 or 14 or 15 or 16 or 44 or 45. 4 hours laboratory. Transfer: CSU; UC; C-ID MUS 160.

MUSIC RECORDING AND TECHNOLOGY (MURT)

20 DIGITAL AUDIO WORKSTATION**3 UNITS**

Fundamentals of digital audio manipulation, recording and production within industry-standard digital audio workstation software. Focus on essential functionality and technical proficiency within audio platforms such as Avid ProTools and Ableton LIVE. Introduction to MIDI sequencing, digital signal processing and audio editing. Transfer: CSU.

21 AUDIO RECORDING I**3 UNITS**

Fundamentals of audio recording and the digital audio workstation. Basic acoustics, principles of analog and digital audio basics, studio set-up, microphone technique, basic mixing techniques and digital audio workstation fundamentals. Prerequisite: MURT 20 (completed with a grade of "C" or higher) 2 hours lecture, 4 hours laboratory. Transfer: CSU.

22A ELECTRONIC MUSIC I**3 UNITS**

Fundamentals of electronic music production and MIDI sequencing. Principles of synthesis, survey of electronic music instruments and their development, MIDI sequencing, drum machines and beat making, and multitrack electronic music production. Prerequisite: MURT 20 (completed with a grade of "C" or higher). Transfer: CSU.

22B ELECTRONIC MUSIC II**3 UNITS**

Advanced electronic music production. Projects will include audio for film and video, theatrical productions, video games, advertisements, sound effects and sound installations. Prerequisite: MURT 22A (completed with a grade of "C" or higher). Transfer: CSU.

23 AUDIO RECORDING II**3 UNITS**

(May be repeated 3 times)

Advanced studio recording techniques. Highly specific and refined microphone selection and implementation, complex multichannel signal flow, analog and digital signal processing, and multitrack mixing in the digital audio workstation. Student-produced, hands-on recording sessions in both the studio and live-concert settings. Prerequisite: MURT 21A. Corequisite: MURT 23. 2 hours lecture, 4 hours laboratory. Transfer: CSU.

24 ADVANCED MIXING TECHNIQUES**3 UNITS**

Focus of course is on advanced multitrack mixing techniques. Implementation of signal processing to a multichannel audio mix using outboard and virtual signal processors, submixing, busing and summing mixes, complex signal flow, advanced mixer automation, and selected topics in mastering. Prerequisite: MURT 21 (completed with a grade of "C" or higher). Strongly Recommended: MURT 23 For maximum learning, co-requisite enrollment with MURT 23 is not required, but strongly encouraged. . Transfer: CSU.

25 LIVE CONCERT SOUND**1 UNIT**

(May be repeated 3 times)

Sound design and amplification management for live music events. Management and manipulation of audio signal flow, interconnected amplification hardware, stage monitoring, and real-time audio signal processing for live audio events. Hands-on participation in on-campus live audio events. 4 hours laboratory. Transfer: CSU.

26 MUSIC BUSINESS AND THE LAW**3 UNITS**

Legal issues in the music industry, with a focus on music publishing and licensure, the role of the record label, and distribution and retailing. 3 hours lecture, 1 hour laboratory. Transfer: CSU.

28 MUSIC INDUSTRY CAREER DEVELOPMENT**3 UNITS**

Career opportunities and business practices in the music industry. Focus on career options and development, artist management, unions, music merchandising, and concert promotion. 3 hours lecture, 1 hour laboratory. Transfer: CSU.

31 SOUND DESIGN**3 UNITS**

Introduction to Sound Design and Audio Post-Production for Multimedia. Includes creating and editing Sound Effects, ADR, Foley, Music, and Ambience, for multiple visual mediums such as Film, TV, Video Gaming, Theatre, and Dance. Emphasis on computer assisted production using Digital Audio Workstations and sound design techniques using industry-standard equipment. Prerequisite: MURT 20 (completed with a grade of "C" or higher). Transfer: CSU.

32A GAME AUDIO DESIGN I**3 UNITS**

Overview of game sound development, basics of sound effects libraries and working with animation, typical studio effects, sound manipulation, and common troubleshooting. Fundamental techniques of recording custom effects, proper integration of audio, and mixing techniques particular to the gaming industry. Basics of the game audio industry, including professional roles, occupational divisions, scheduling, contracts and workflow. Prerequisite: MURT 20 (completed with a grade of "C" or higher). Transfer: CSU.

32B GAME AUDIO DESIGN II**3 UNITS**

Advanced creation of music and audio for video games, including implementation within a video game. Advanced music cue composition, Foley SFX recording and design, and functional implementation in a live game context. Prerequisite: MURT 32A (completed with a grade of "C" or higher). Transfer: CSU.

NURSING (NURS)**DEGREE:**

AA-NURSING

LVN PATHWAY FOR ASSOCIATE IN ARTS

30 UNIT LVN-RN/NON-DEGREE

NURSING

ASSOCIATE IN ARTS DEGREE

The Nursing Program is approved by the California Board of Registered Nursing. Upon completion of the major, the graduate is eligible to take the Registered Nurses Licensing examination (NCLEX-RN). The program prepares graduates who can contribute to the advancement of nursing science and influence changes in a variety of settings within the health care system. The graduate possesses a repertoire of knowledge, skills, and attributes that serve as the foundation for safe, competent practice and lifelong learning. **SPECIAL APPLICATION REQUIRED**

PROGRAM-LEVEL OUTCOMES

1. Incorporate the core of knowledge unique to the nursing profession in the delivery of health care in acute, chronic, or community health settings.
2. Utilize the nursing process to provide care for clients, families and significant others with diverse health needs and practices.
3. Respond to the demands of rapidly changing information technology by incorporating computer literacy in health care delivery and utilizing the internet for research.
4. Use critical thinking skills in decisions related to managing care for groups of clients.
5. Practice within the profession's ethical and legal framework.

BASIC SCIENCES, BEHAVIORAL AND SOCIAL SCIENCES**PREREQUISITES**

	UNITS
Human Anatomy with lab (ANAT 1 at Chabot)	4 - 5
Human Physiology with lab (PHSI 1 at Chabot)	4 - 5
Microbiology with lab (MICR 1 at Chabot)	4 - 5

The above listed courses must be taken before applying to the nursing program. Equivalent courses will be accepted, however course substitutions for the above courses will not be considered.

A minimum of 2.5 GPA is required in Basic Sciences prerequisites.

PSY 1	General Psychology	3
SOCI 1	Principles of Sociology	3

The above listed courses must be taken before applying to the nursing program. Equivalent courses will be accepted, however course substitutions for the above courses will not be considered.



A grade of "C" or higher is required for each Social Science prerequisite course.

COMMUNICATION PREREQUISITIES:	UNITS
ENGL 1A Critical Reading and Composition	3
COMM 1 Fundamentals of Speech Communication	3
or	
COMM 10 Interpersonal Communication	3

The above listed courses must be taken before applying to the nursing program. Equivalent courses will be accepted, however course substitutions for the above courses will not be considered.

A grade of "C" or higher is required for each Communication prerequisite.

YEAR ONE	UNITS
NURS 55 Fundamentals of Nursing Practice	8.5
NURS 58 Nursing Care for Patients with Infectious Disease	1
NURS 61 Clinical Nutrition	1.5
NURS 69 Gerontological Nursing	1
NURS 75 Fluid and Electrolytes	1
NURS 51 Nursing of the Childbearing Family (Obstetrical Nursing)	4
NURS 52 Pediatric Nursing	4
NURS 88 Pathophysiology	3
NURS 88L Physical Assessments	1

YEAR TWO	UNITS
NURS 60A Adult Health I	4
NURS 64 Pharmacology for Professional Nurses	2.5
NURS 60B Adult Health II	6
NURS 73 Intravenous Therapy	1
NURS 53 Mental Health Nursing	4
NURS 60C Adult Health III	3.5

ADDITIONAL NURSING PROGRAM INFORMATION

To progress in the Nursing Program and to graduate from the program, students must earn a minimum grade of "C" in each course of the nursing major.

Graduates of this program receive an Associate in Arts degree in Nursing and are eligible to take the national council licensing examination for registered nursing (NCLEX-RN).

Note: The Board of Registered Nursing requirements supersede catalog rights for graduation.

ADDITIONAL REQUIREMENTS FOR THE AA IN NURSING 10 - 18

For specific General Education courses refer to catalog section on A.A. Graduation Requirements. Students with a BA/BS degree or higher from US regionally accredited colleges or universities are exempt from Chabot GE/Graduation requirements.

TOTAL UNITS 80 - 91

LVN PATHWAY FOR ASSOCIATE IN ARTS

The Chabot Nursing program prepares graduates who can contribute to the advancement of nursing science and influence changes in a variety of settings within the health care system. The graduate possesses a repertoire of knowledge, skills, and attributes that serve as the foundation for safe, competent practice and lifelong learning. LVN's who enter into the second year of the Nursing Program may opt for one of the two following: A.A. in Nursing or 30 Unit Non- Degree option.

PREREQUISITE FOR ADMISSIONS:

(1) completion Advanced Standing application; (2) validation of previous nursing knowledge.

PREREQUISITE COURSES	UNITS
Human Anatomy with lab (ANAT 1 at Chabot)	4 - 5
Human Physiology with lab (PHSI 1 at Chabot)	4 - 5
Microbiology with lab (MICR 1 at Chabot)	4 - 5
NURS 70 Nursing Theory: LVN-RN Transitions	1.5
NURS 70L Clinical Skills Practice and Assessment Lab	0.5
NURS 84 Prescriptive Clinical Nursing Skills Practice	0.5

The above courses must be completed with a "C" or higher before validation or admissions to the Nursing Program. A grade point average of 2.5 is required for the science courses.

If the student fails any ATI Exams after two attempts, they may take the theory portion of OB (NURS 81) or Pediatrics (NURS 82) or Pharmacology (NURS 64).

CLINICAL SEQUENCE

The LVN must complete the following curriculum with a "C" or better in each course regardless of the option chosen.

NURSING COURSES	UNITS
NURS 53 Mental Health Nursing	4
NURS 69 Gerontological Nursing	1
NURS 88 Pathophysiology	3
NURS 88L Physical Assessments	1
NURS 60B Adult Health II	6
NURS 60C Adult Health III	3.5
NURS 73 * Intravenous Therapy	0 - 1



ADDITIONAL REQUIREMENTS FOR THE AA IN NURSING:

(1). Psychology 1, Sociology 1, and Communication Studies 1 or 10. Equivalent courses will be accepted, however course substitutions will not be considered.

A grade of "C" or higher is required for each of the above courses.

(2) Chabot AA/ *General Education and Graduation requirements. Students with BA/BS degrees or higher from US regionally accredited colleges or universities are exempt from Chabot GE/Graduation requirements.

TOTAL UNITS 33 - 37

*NURS 73 is required if not certified in the LVN program.

30 UNIT LVN-RN/NON-DEGREE

LVNs who enter into the second year of the Nursing Program may choose one of the two options: A.A. in Nursing, or "30 Unit Non-Degree" option. (Note about the " 30 Unit Non-Degree option" The Associate Degree is NOT awarded with this option and the nurse will always be considered a "non-degree graduate". Please see the Director of Nursing if interested in the "30 Unit Non-Degree" option.) Graduates of of these two options are eligible to take the National Council Licensing Examination for Registered Nurses (NCLEX-RN).

PREQUISITE FOR ADMISSIONS:

(1) completion of Advanced Standing application; (2) validation of previous nursing knowledge.

PREREQUISITE COURSES	UNITS
Human Physiology with lab (PHSI 1 at Chabot)	4 - 5
Microbiology with lab (MICR 1 at Chabot)	4 - 5
NURS 70 Nursing Theory: LVN-RN Transitions	1.5

The above courses must be completed with a "C" or higher before validation or admission to the Nursing Program. A grade point average of 2.5 is required for the science courses.


If the student fails any of the Kaplan Exams after two attempts they cannot complete the 30-unit option, but will need to complete the LVN-RN Associate in Arts Degree.

NURS 84 Prescriptive Clinical Nursing Skills Practice	0.5
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CLINICAL SEQUENCE

The LVN must complete the following curriculum with a "C" or higher in each course regardless of the option chosen:

YEAR TWO	UNITS
NURS 53 Mental Health Nursing	4
NURS 69 Gerontological Nursing	1
NURS 88 Pathophysiology	3
NURS 88L Physical Assessments	1
NURS 60B Adult Health II	6
NURS 60C Adult Health III	3.5
TOTAL UNITS	28.5 - 30.5





REGISTERED NURSING PROGRAM

50 Years of Nursing Education Excellence

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November 1 through January 31st
through ClassWeb each year
for the next fall.

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September through May

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NURSING (NURS)

50 FUNDAMENTALS OF NURSING PRACTICE: 5 UNITS REVIEW

Introduction to fundamental concepts and practices in nursing care across the life span with emphasis on later-life issues. Application of the nursing process to the care of adult clients with the following chronic disorders: hypertension, cancer, diabetes mellitus, coronary artery disease, and cerebrovascular accidents. Beginning nursing skills include: principles of medical asepsis, body mechanics, standard precautions, hygienic and nutritional care, and administration of medications. Theoretical content provides information on the care of clients with diverse cultural backgrounds and spiritual needs as well as principles of therapeutic communication and mental health. Prerequisite: Formal referral by the California Board of Registered Nursing for the purpose of meeting requirements for eligibility to take the licensing examination for registered nursing (NCLEX-RN) or possession of a valid California LVN license, or inactive California registered nursing license, or transfer from another nursing program who has completed the equivalent of Nursing 55 with a "C" or better. May not receive credit if Nursing 55 has been completed with a "C" or better. 4 hours lecture, 2 hours laboratory. Transfer: CSU.

51 MATERNITY NURSING

4 UNITS

Nursing care of the childbearing family. The focus is on the physiological and psychological needs of families as they are affected by pregnancy, labor and birth, postpartum, and newborn stages. Theory and clinical practice include integration of assessment skills, women's health, violence against women, nutrition, pain management, ethical issues, and teaching strategies unique to childbearing families. Quality, Safety, Education in Nursing (QSEN) concepts are incorporated. 9 total weeks. Prerequisite: NURS 55 (completed with a grade of "C" or higher), NURS 61 (completed with a grade of "C" or higher), NURS 69 (completed with a grade of "C" or higher), NURS 75 (completed with a grade of "C" or higher). 4 hours lecture, 2 hours laboratory, 11.5 hours clinical. Transfer: CSU.

52 PEDIATRIC NURSING

4 UNITS

Emphasis placed on the use of the nursing process in promoting adaptive processes necessary for coping with the health issues of infants, children and adolescents. Theory and clinical practice includes integration of assessment skills, growth and development, family abuse issues, nutrition, pharmacological concepts, ethical issues, and teaching strategies unique to child-rearing families. Clinical focuses on care of clients in community and acute care settings. Concepts related to the California Nursing Practice Act, and Quality, and Safety Education in Nursing (QSEN) will be incorporated. 9 total weeks. Prerequisite: NURS 55 (completed with a grade of "C" or higher), NURS 61 (completed with a grade of "C" or higher), NURS 69 (completed with a grade of "C" or higher), NURS 75 (completed with a grade of "C" or higher). 4 hours lecture, 2 hours laboratory, 11.5 hours clinical. Transfer: CSU



**53 MENTAL HEALTH NURSING****4 UNITS**

Emphasis on the use of the nursing process in the care of adults experiencing selected conditions requiring treatment in psychiatric care settings. Theory and clinical practice include integration of bio-psychosocial assessment skills, nutrition, pharmacological and crisis intervention concepts, legal-ethical issues, and anger management. Concepts related to the California Nursing Practice Act, and Quality, and Safety Education in Nursing (QSEN) will be incorporated. 9 total weeks. Prerequisite: NURS 55 (completed with a grade of "C" or higher), NURS 61 (completed with a grade of "C" or higher), NURS 69 (completed with a grade of "C" or higher), NURS 75 (completed with a grade of "C" or higher). 4 hours lecture, 2 hours laboratory, 11.5 hours clinical. Transfer: CSU.

54 CLINICAL TOPICS**.5 UNIT**

Study of selected clinical topics and associated nursing process related to nursing practice. Prerequisite: Completion of NURS 59 or NURS 60A (completed with a grade of "C" or higher) (or the equivalent) or NURS 70 (completed with a grade of "C" or higher) and possession of a valid California LVN license. Transfer: CSU.

55 FUNDAMENTALS OF NURSING PRACTICE 8.5 UNITS

Introduction to fundamental concepts and practices in nursing care across the life span. Application of the nursing process to the care of adult clients with acute and chronic disorders. Fundamental nursing skills are presented. Theoretical content provides overview of the care of clients with diverse cultural backgrounds and spiritual needs as well as principles of therapeutic communication and mental health. Concepts related to the California Nursing Practice Act, as well as principles of safe clinical practice will be included. Corequisites: Nursing 69, Nursing 61, Nursing 58, Nursing 56. 4 hours lecture; 11.5 hours clinical practice, 2 hours laboratory. Transfer: CSU.

58 NURSING CARE FOR PATIENTS WITH INFECTIOUS DISEASE**1 UNIT**

Emphasis on the use of the nursing process in the care of individuals experiencing infectious diseases including pathophysiology, psychosocial, treatment, and preventive measures. Updated annually to reflect global disease threats and CDC preventative protocols for healthcare workers. Corequisite: NURS 55 (completed with a grade of "C" or higher). 1 hour lecture. Transfer: CSU.

60A ADULT HEALTH I**4 UNITS**

Emphasis on the use of the nursing process in the care of adults experiencing selected conditions requiring treatment in medical-surgical care settings. Theory and clinical practice includes integration of assessment skills, nutrition, medication administration and legal-ethical issues. Concepts related to the California Nursing Practice Act, and Quality, and Safety Education in Nursing (QSEN) will be incorporated. 9 total weeks. Prerequisite: NURS 55 (completed with a grade of "C" or higher) and , NURS 61 (completed with a grade of "C" or higher) and , NURS 69 (completed with a grade of "C" or higher), NURS 75 (completed with a grade of "C" or higher). 4 hours lecture, 2 hours laboratory, 11.5 hours clinical. Transfer: CSU.

60B ADULT HEALTH II**6 UNITS**

Nursing interventions that assist the adult client in adaptation to stressors of acute and chronic illnesses with unpredictable outcomes. Focus on caring for groups of clients in the medical-surgical and critical care setting. Concepts related to the California Nursing Practice Act, as well as principles of safe clinical practice will be included. 12 total weeks. Prerequisite: NURS 51 (completed with a grade of "C" or higher), NURS 52 (completed with a grade of "C" or higher), NURS 53 (completed with a grade of "C" or higher), NURS 60A (completed with a grade of "C" or higher). 4 hours lecture, 1 hours laboratory, 15 hours clinical Transfer: CSU.

60C ADULT HEALTH III**3.5 UNITS**

Discussion of leadership styles, delegation of care, evidence based practice, conflict management , delegation of assignments, prioritization of client care, and organizational structure the health care organization. Concepts related to the California Nursing Practice Act, and Quality, and Safety Education in Nursing (QSEN) will be incorporated. 6 total weeks. Prerequisite: NURS 60B (completed with a grade of "C" or higher). 2 hours lecture, 1 hour laboratory, 23 hours clinical Transfer: CSU.

61 CLINICAL NUTRITION**1.5 UNITS**

Introduction to principles of clinical nutrition. Assessment of nutritional status; application of nutritional principles across the life span in the hospital and community; diet therapy in the treatment of selected diseases; nutritional supplements; weight gain and weight loss; impact of culture and spiritual beliefs on diet. Corequisite: Nursing 55, 69, or satisfactory completion of equivalent. 1.5 hours. Transfer: CSU.

64 PHARMACOLOGY FOR PROFESSIONAL NURSES**2.5 UNITS**

Introduction to the principles of clinical pharmacology, the administration of drugs as therapeutic agents, and the interactions of drugs and body tissues. The purpose, action, and expected physiological responses of therapeutic agents and dosage forms currently used in treating pain, infectious processes and selected acute and chronic disease states in the cardiovascular, endocrine, respiratory, autonomic nervous and central nervous system is explored as well as the integration of the concepts in the nursing process. Prerequisite: Satisfactory completion of courses in the first two semesters of the nursing curriculum and concurrent enrollment (or satisfactory completion of) Nursing 59 or Nursing 60A or possession of a valid California RN or LVN license. 2.5 hours. Transfer: CSU.

69 GERONTOLOGICAL NURSING**1 UNIT**

Nursing care of the aging client. Physical and psychosocial changes which occur with the aging process. Focus on successful adaptation to aging with emphasis on maintaining or regaining optimal health. Strategies for caring for the client who is coping with altered life styles as a result of problems associated with aging. Theories of aging and cultural influences on the aging process. Corequisite: Nursing 55 and 61 or completion of Nursing 70. 1 hour. Transfer: CSU.



70 NURSING THEORY: LVN-RN TRANSITIONS 1.5 UNITS

Emphasis on nursing topics that prepare the LVN adult learner for advanced standing in an Associate Degree RN Nursing Program. Includes roles transition, survival skills for the nontraditional student, theoretical foundations of nursing, communicating effectively, critical thinking in nursing practice, nursing process, educator role of the registered nurse, legal - ethical components of nursing, functions of the California Board of Registered Nursing, and selected skills used by the registered nurse in the delivery of patient care. For LVN students desiring admission to Chabot College Nursing Program with Advanced Standing, Nursing 70 and 70L, provide a framework for satisfying selected nursing content and skills offered during year one of associate degree nursing curriculum. Prerequisite: Valid California LVN license, at least one-year work experience as LVN in a health care setting or a client agency, completion of Physiology 1 and Microbiology 1 with a grade of "C" or higher, and attendance at LVN-RN orientation. Corequisite: Working at least part-time as LVN. 1.5 hours. Transfer: CSU.

70L CLINICAL SKILLS PRACTICE AND ASSESSMENT LAB .5 UNIT

Clinical skills practice lab provides framework for satisfying selected nursing content and skills offered during first year of associate degree nursing curriculum. Designed for LVN students desiring admission to Chabot Nursing Program with Advanced Standing. Corequisite: Nursing 70. 1.5 hours laboratory. Transfer: CSU.

73 INTRAVENOUS THERAPY 1 UNIT

Safe administration and maintenance of intravenous therapy as a treatment modality. Includes differentiation of commonly used solutions, dosage calculation, vein selection and venipuncture techniques, recognition of and response to complications. Includes laboratory practice. Prerequisite: Satisfactory completion of all required nursing courses in the first and second semester of the nursing curriculum, NURS 55, NURS 58, NURS 61, NURS 69, NURS 75. Corequisite: Concurrent enrollment in the third semester of the nursing program. 1 hour lecture, 1 hour laboratory. Transfer: CSU.

75 FLUID AND ELECTROLYTES 1 UNIT

Introduction to principles of fluid and electrolyte balance. Assessment and treatment of imbalances; parenteral therapy; acid-base balance; interpretation and application of laboratory results. Prerequisite: All nursing courses in the first semester of the nursing curriculum (or equivalent) completed with grades of "C" or higher and concurrent enrollment in Nursing 59 or 60A. 1 hour. Transfer: CSU.

80 TEST TAKING SKILLS FOR NURSING STUDENTS .5 UNIT

Practice in answering multiple-choice, fill in the blank and multiple option questions related to nursing. Strategies for successful test taking. Preparation for National Council Licensing Exam for Registered Nursing (NCLEX-RN). 1 hour lecture. Prerequisite: Admission to the nursing program.

81 MATERNITY NURSING THEORY 2 UNITS

Nursing interventions that assist the family with adaptation during the childbearing cycle including assessments and management of the mother and newborn during the antepartal, intrapartal, and postpartal periods; emphasis on the involvement of the total family; reproductive related health care problems of women. Designed to assist Licensed Vocational Nurses in preparation for the Registered Nurse Licensing examination. Prerequisite: Valid California LVN license. 2 hours. lecture. Transfer: CSU.

82 PEDIATRIC NURSING THEORY 2 UNITS

Emphasis is placed on the nursing interventions that assist the child and family with adaptive processes necessary to cope with acute and chronic conditions affecting infants, children, and adolescents. The focus is also on medical/surgical illnesses, child abuse, and cultural diversity as they affect child care. It includes application of principles of growth and development, physical assessment skills, and pharmacological concepts unique to the child. Prerequisite: Valid California LVN license. 2 hours. Transfer: CSU.

84 PRESCRIPTIVE CLINICAL NURSING SKILLS PRACTICE .5 UNIT

Emphasis is on gaining experience in practicing and refining selected clinical skills used in the delivery of nursing care to a client in the acute care or community based setting. This required course provides the opportunity for preparation for the Clinical Performance Examination, as well as for practicing different skills using up-to-date equipment in the Skills Lab. Prerequisite: NURS 55 (completed with a grade of "C" or higher) or the equivalent. 1.5 hours laboratory. Transfer: CSU.

85 REGISTERED NURSE REFRESHER (THEORY AND CLINICAL) 7 UNITS

For United States-educated Registered Nurses whose licenses have expired, or who have not worked as a Registered Nurse in the United States for at least three years, or those foreign-educated nurses with authorization to work in the United States and who are required by the California Board of Registered Nursing to complete additional coursework in a pre-licensure nursing program. Theory and clinical practice focuses on preparing the Registered Nurse for employment as an entry-level staff nurse in the United States. Prerequisites: Possession of a California Registered Nurse license which has either expired or in which the holder has not been employed as a Registered Nurse for at least three years; or possession of a valid California LVN license and who has six months' recent work experience as an LVN in a health care facility; and possession of an American Heart Association certification which is valid through the last day of the course. 4 hours lecture, 19 hours laboratory. Total weeks: twelve. Transfer: CSU.

**86 ESSENTIALS OF MEDICAL TERMINOLOGY 2 UNITS**

Core concepts focus on comprehending the standard word roots, suffixes, prefixes, common abbreviations, and selected medical terms not built from word parts. Emphasis on spelling, definitions, pronunciation, and the application of anatomical and diagnostic terms, common disease processes, and pharmaceutical terms in written and oral communication. Designed for nursing majors who wish to acquire basic medical terminology typically used in health care. May not be taken if Health 51A (or equivalent) has been completed with a "C" or better. 2 hours.

88 PATHOPHYSIOLOGY 3 UNITS

Pathophysiological processes in selected disease states in the following systems of the human body: endocrine, renal, cardiovascular, pulmonary, gastrointestinal, and neurological. Purpose and results of supporting laboratory, radiological, and other appropriate diagnostic studies used in confirming the presence or absence of the selected disease states will be explored. Critical thinking exercises, case studies and examinations. Prerequisites: Satisfactory completion of Human Physiology 1 and Microbiology 1 (or equivalent) and: satisfactory completion of (or concurrent enrollment in) Nursing 70 and possession of a valid California LVN license, or possession of a valid California RN license, or satisfactory completion of all required nursing courses in the first semester of the nursing curriculum (Nursing 55, Nursing 56, Nursing 58, Nursing 61 or their equivalents) with a "C" or better and concurrent enrollment in the second semester of the nursing program (Nursing 75, Nursing 59 or Nursing 60A or possession of a valid California LVN or RN license). 3 hours. Transfer: CSU.

88L PHYSICAL ASSESSMENT .5-1 UNIT

Methodologies employed in physical assessment in the clinical setting. Focus is on physical assessment techniques and advanced techniques utilized in assessing the status of neurological cardiac, and peripheral vascular, thoracic, musculoskeletal, integumentary, and abdominal systems. Laboratory and diagnostic tests (such as techniques of respiratory arterial blood gas analyses, pulse oximetry, and basic cardiac dysrhythmia interpretation). Health data base interviewing. Prerequisites: Satisfactory completion of Nursing 68 and Microbiology 1 (or equivalent) and satisfactory completion of (or concurrent enrollment in) Nursing 69 and Nursing 70, possession of a valid California LVN license, or satisfactory completion of all required nursing courses in the first year of the nursing curriculum, and concurrent enrollment in the second semester of the nursing program and Nursing 68, or possession of a valid California RN license. Concepts related to the California Nursing Practice Act, as well as principles of safe clinical practice will be included. .5 - 3 hours laboratory. Transfer: CSU.

90 NCLEX EXAM PREPARATION-TEST TAKING SKILLS AND STRATEGIES .5 UNIT

This course prepares the nursing student to think critically and answer multiple format questions that are similar to the NCLEX-RN exam. Optional class for nursing students. 1 hour lecture. Prerequisite: NURS 60B (completed with a grade of "C" or higher).

NUTRITION (NUTR)**1 THE SCIENCE OF NUTRITION 3 UNITS**

The science of nutrition including the nutrients, their functions, sources and recommended intakes. Nutritional assessment and the role of nutrition in the maintenance of health. For students majoring in the science and/or health fields. Strongly Recommended: Chemistry 30A and Mathematics 65 (completed with a grade of "C" or higher). 3 hours. Transfer: CSU; UC; CSU/GE.

57 NUTRITION FOR FITNESS AND FAT LOSS 3 UNITS

(See also Physical Education 57)

Study the role that nutrition and activity play in developing fitness and lowering body fat. Major concepts of fitness and nutrition will be presented along with training utilizing a heart rate monitor. Students will learn to assess current fitness levels and design a personal fitness and nutritional plan. (May not receive credit if Physical Education 57 has been completed.) 3 hours. Transfer: CSU; CSU/GE.

58 NUTRITION FOR SPORTS AND HUMAN PERFORMANCE 3 UNITS

(See also Physical Education 58)

An investigation into the role nutrition plays in sports and human achievement. Determination of optimum hydration and nutrient intake in relation to activity. (May not receive credit if Physical Education 58 has been completed.) 3 hours. Transfer: CSU; CSU/GE.

OFFICE TECHNOLOGY

(See Computer Application Systems)

PHILOSOPHY (PHIL)

50 GOD, NATURE, HUMAN NATURE

3 UNITS

Nature and range of philosophical inquiry in relation to everyday problems of humans as individuals, as citizen, as existing in nature, and as a creator of works of the arts and of the spirit. Analysis of primary philosophical documents that concentrate on these broad areas of a human's concerns. Introduction to Philosophy by the Philosophers' own works, their methods of procedure and inquiry; attention given to the development of skills for reading, analyzing, and pursuing philosophical argument. Strongly Recommended: PHIL 60 (completed with a grade of "C" or higher), PHIL 65 (completed with a grade of "C" or higher), PHIL 70 (completed with a grade of "C" or higher). 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

60 INTRODUCTION TO PHILOSOPHY: ETHICS

3 UNITS

Examination of representative ethical theories. Problems of good and evil, right and wrong, individual and/or social action; principles, criteria or starting points for these issues and decisions as discussed and developed in great writings of the philosophical-literary tradition. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

65 INTRODUCTION TO PHILOSOPHY: THEORY OF KNOWLEDGE

3 UNITS

Primary works of philosophy in the areas of knowledge, truth, and thought. Systematic analysis of documents that constitute the major statements in the theory of knowledge—the functions of reasoning, intuition, and sense experience. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

70 INTRODUCTION TO POLITICAL AND SOCIAL PHILOSOPHY

3 UNITS

Philosophical-political analysis of value conflicts in the area of political thought and theory. Philosophical investigation of political principles which affect our lives as well as the role of theory in regard to the nature of the individual in a modern technological democracy. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

PHOTOGRAPHY (PHOT)

DEGREE:

AA—PHOTOGRAPHY

CERTIFICATE OF PROFICIENCY:

PHOTOGRAPHY

PHOTOGRAPHY

ASSOCIATE IN ARTS DEGREE

This two-year diploma program provides students with a thorough technical knowledge of contemporary photographic applications. Students also become familiar with digital imagery involving scanning and manipulation; and multimedia technology combining sound, text and images. Time is spent doing practical hands-on work in studios, darkrooms, and computer laboratories. Students gain on-the-job experience working as photographers, photographers' assistants, and electronic imagers.

CAREER OPPORTUNITIES IN PHOTOGRAPHY

Architectural Photographer, Commercial Photographer, Corporate Photographer, Industrial Photographer, Photojournalist, Portrait Photographer, Scientific Photographer



**PROGRAM-LEVEL OUTCOMES**

1. Demonstrate technical competency in the operation of a camera.
2. Demonstrate technical competency making a photographic print.
3. Effectively communicate a unique vision through personal artistic expression and conceptual meaning.
4. Ability to discuss photography in terms of technical merit, aesthetic value, and conceptual meaning.

YEAR ONE

		UNITS
ARTH 1	Introduction to Art	3
ART 23	2-D Foundations	3
PHOT 50	Introduction to Photography	3
PHOT 60	Intermediate Black and White Photography	3
PHOT 61	Digital Color Materials and Processes	3

YEARTWO

		UNITS
PHOT 64A	Artificial Light Photography	3
PHOT 62	Portfolio Workshop	3
PHOT 66	Digital Imaging	3
	Any studio art course	3

GENERAL EDUCATION COURSES

For specific General Education courses refer to catalog section on A.A. Graduation Requirements.

TOTAL UNITS **27**

PHOTOGRAPHY

CERTIFICATE OF PROFICIENCY

PROGRAM-LEVEL OUTCOMES

1. Demonstrate technical competency in the operation of a camera.
2. Demonstrate technical competency making a photographic print.
3. Effectively communicate a unique vision through personal artistic expression and conceptual meaning.
4. Ability to discuss photography in terms of technical merit, aesthetic value, and conceptual meaning.

CORE COURSES

		UNITS
ART 23	2-D Foundations	3
PHOT 50	Introduction to Photography	3
PHOT 60	Intermediate Black and White Photography	3
PHOT 61	Digital Color Materials and Processes	3
	Electives	3

TOTAL **15**

PHOTOGRAPHY (PHOT)**10 ARTISTS' RIGHTS AND THE LAW 3 UNITS**

Copyright issues affecting artists. Particular emphasis on the visual arts and media. Constitutional underpinnings of copyright law. Concepts underlying copyright protections. Copyrights distinguished from patents and trademarks. Creation and ownership of works of art. Rights associated with copyright ownership. Licensing, assigning, and selling rights to others. Collaboration between artists and ownership of rights. Work for hire and work done on commission. Fair use and first amendment issues. Effect of digital technology and the internet on copyright ownership. Copyright infringement and remedies. Moral Rights. 3 hours. Transfer: CSU.

20 HISTORY OF PHOTOGRAPHY 3 UNITS

(See also Art History 20)

A broad chronological survey of photography from its invention to the present. Considers the medium's dual role as technology and art. Addresses a multiplicity of photographic themes and purposes. Considers the intersections of photography and technology, history, art, and everyday life. May not receive credit if Art History 20, Art 67, or Photography 67 has been completed. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

50 INTRODUCTION TO PHOTOGRAPHY 3 UNITS

Introduction to photographic processes and light sensitive materials. Camera controls and their use in making pictures. Developing black and white negatives and prints. Print finishing, presentation, and critique. 2 hours lecture, 4 hours laboratory. Transfer: CSU; UC: C-ID: ARTS 260.

51 INDIVIDUAL PROJECTS 1 UNIT

Individual projects in photography or graphic communications at the intermediate to advanced level. Development of knowledge and skills acquired in previous or current work with emphasis on current projects. Prerequisite: Photography 50 (completed with a grade of "C" or higher). 4 hours laboratory. Transfer: CSU.

53A BEGINNING DIGITAL CAMERA USE 1.5 UNITS

Introduction to digital photography using DSLR, mirrorless, or advanced point and shoot cameras. Course will cover basic exposure principles with automatic and manual modes, composition, and image editing. Survey of photography's multiple genres and its changing role in society and culture. Transfer: CSU.

53B DIGITAL DARKROOM 1.5 UNITS

Introduction to darkroom concepts and techniques common to both traditional and digital photography. Work with digitally created negatives to explore traditional B&W silver and alternative process techniques. Prerequisite: PHOT 53A or , PHOT 50 (completed with a grade of "C" or higher). Transfer: CSU.

55 CAREERS IN PHOTOGRAPHY**1 UNIT**

Opportunities in various areas of photography including commercial, industrial, portraiture, sales, photofinishing; and the investigation of photography as an art form. 1 hour. Transfer: CSU.

60 INTERMEDIATE BLACK AND WHITE PHOTOGRAPHY**3 UNITS**

Using exposure/development controls related to black and white negative materials. Development of competent print making skills. Emphasis on visual and critical problems related to black and white photography. Prerequisite: Photography 50 (completed with a grade of "C" or higher). 2 hours lecture, 4 hours laboratory. Transfer: CSU; UC.

61 COLOR MATERIALS AND PROCESSES**3 UNITS**

Understanding theories of exposure, printing, and processing of various color materials. Emphasis on visual problems related to color photography. Prerequisite: Photography 50 (completed with a grade of "C" or higher). 2 hours lecture, 4 hours laboratory. Transfer: CSU.

62 PORTFOLIO WORKSHOP**3 UNITS**

Visual and technical problems of assembling a portfolio. Emphasis on individual projects and the production of a finished portfolio of black and white and/or color images. Prerequisite: Photography 50. Strongly recommended: Photography 60. 2 hours lecture, 4 hours laboratory. Transfer: CSU.

64A ARTIFICIAL LIGHT PHOTOGRAPHY**3 UNITS**

Photography using light sources selected and manipulated by the photographer. Use of light sources in a controlled situation to achieve technically accurate renditions of subject matter and to make successful visual statements. Lighting techniques for product, still life and portrait photography. Prerequisite: Photography 50 (completed with a grade of "C" or higher). Strongly recommended: Photography 60. 2 hours lecture, 4 hours laboratory. Transfer: CSU.

65 HANDCOLORING, TONING AND BEYOND**3 UNITS**

Creative explorations of the traditional black and white image. Handcoloring of prints using oils, pencils, and other media. Various toning techniques, including masking for multitone images. Solarization and line breakdown. Consideration of other means of manipulating the conventional print. Prerequisite: Photography 50 or equivalent. 2 hours lecture, 4 hours laboratory. Transfer: CSU.

66 DIGITAL IMAGING**3 UNITS**

Desktop digital imaging systems and software. Overview of computer operating systems, local area networks, and file management. Methods and devices for image input, storage, and output. Use of traditional photographic controls to enhance image quality in the digital medium. Designing an image for digital manipulation. Strongly recommended: Photography 50. 2 hours lecture, 4 hours laboratory. Transfer: CSU.

80 PHOTO SILKSCREEN PRINTING**3 UNITS**

Origins and history of printmaking with particular emphasis on serigraphy (silk screen). Uses of printmaking in industry, art, and politics. Basic materials and methods involved in producing a screen print, using traditional and digital photographic methods. Printing techniques for single- and multi-color prints. Creation of high contrast and continuous tone images. Color theory related to the production and printing of images. 2 hours lecture. 4 hours laboratory. Transfer: CSU.

81 PHOTO ETCHING AND GRAVURE**3 UNITS**

Origins and history of printmaking with particular emphasis on intaglio and gravure printing processes. Uses of printmaking in industry, art, and politics. Basic materials and methods involved in producing an intaglio print, using traditional and digital photographic methods. Printing techniques for single- and multi-color prints. Creation of high contrast and continuous tone images. Color theory related to the production and printing of images. Strongly recommended: At least one photography or other studio art course. 2 hours lecture. 4 hours laboratory. Transfer: CSU.

PHYSICAL SCIENCE (PSCI)

15 DESCRIPTIVE PHYSICAL SCIENCE: INTRODUCTION TO PRINCIPLES OF PHYSICAL SCIENCE**5 UNITS**

An introduction to the physical universe from atomic particles to the stars, with emphasis on the basic principles of physics, astronomy, chemistry, and the geo-sciences (meteorology and geology). Designed for non-majors in physical science. Includes an introduction to laboratory, principles and techniques with emphasis on the basic concepts discussed in the class. May not receive credit if Physics 11 has been completed. Strongly recommended: Mathematics 65, English 101A or 102. 4 hours lecture, 3 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).



PHYSICS (PHYS)

PROGRAM-LEVEL OUTCOMES

1. Demonstrate how to read, diagram and solve qualitatively and quantitatively key physics applications aided by correct and efficient lab experiments using industry standard equipment.
2. Effectively, efficiently, and correctly run lab experiments using industry standard equipment.
3. Demonstrate an understanding of experimentation and real world applications within the scientific method as well as a mastery of physics lab experiments through the submission of a complete lab report with all required elements present.

2A INTRODUCTION TO PHYSICS I 4 UNITS

Introduction to the major principles of classical mechanics and electricity using pre-calculus mathematics. Includes Newtonian mechanics, energy, gravitation, fluids, thermodynamics, vibration waves, and electrostatics. Prerequisite: Mathematics 20 or 36 or 37 (completed with a grade of "C" or higher). 3 hours-lecture, 3 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: PHYS 105. (UC credit/unit limitations may apply).

2B INTRODUCTION TO PHYSICS II 4 UNITS

Electro-circuits, electromagnetic waves, optics and modern physics. Prerequisite: Physics 2A (completed with a grade of "C" or higher). 3 hours lecture, 3 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: PHYS 110. (UC credit/unit limitations may apply).

3A COLLEGE PHYSICS A 4 UNITS

Introduction to the major principles of classical mechanics using calculus for students studying life sciences and architecture. Includes: the scientific method and social responsibility of the scientist, Newtonian mechanics, energy, gravitation, fluids, thermodynamics, and vibration waves. Prerequisite: MTH 1 (completed with a grade of "C" or higher) or MTH 15 and MTH 37 (each completed with a grade of "C" or higher) or MTH 36 (completed with a grade of "C" or higher). 3 hours lecture, 3 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: PHYS 105. (UC credit/unit limitations may apply).

3B COLLEGE PHYSICS B 4 UNITS

Introduction to the major principles of ELECTROMAGNETISM AND MODERN PHYSICS using calculus for students studying life sciences and architecture. Includes Electrostatics, Electro-circuits, electromagnetic waves, optics, relativity, atomic and nuclear physics and the social responsibility of the scientist and architect. Prerequisite: MTH 16 (completed with a grade of "C" or higher) or MTH 2 and PHYS 3A (each completed with a grade of "C" or higher) or, PHYS 4A (completed with a grade of "C" or higher). 3 hours lecture, 3 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC, C-ID: PHYS 110. (UC credit/unit limitations may apply).

4A GENERAL PHYSICS I 5 UNITS

Introduction to the principles of Newtonian mechanics using calculus as needed. Vectors, kinematics, dynamics, energy, momentum, rotation, oscillations and gravitation. Prerequisite: Mathematics I (completed with a grade of "C" or higher). 4 hours lecture, 3 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: PHYS 205. (UC credit/unit limitations may apply).

4B GENERAL PHYSICS II 5 UNITS

Electric fields, electric currents, magnetic fields, induced currents, alternating circuits, Maxwell's equations, Electromagnetic waves. Prerequisite: Physics 4A and Mathematics 2 (both completed with a grade of "C" or higher). 4 hours lecture, 3 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: PHYS 210. (UC credit/unit limitations may apply).

4C GENERAL PHYSICS III 5 UNITS

Oscillations, fluids, sound waves, thermodynamics, electromagnetic spectrum, optics including reflection, refraction, diffraction, interference, polarization. Prerequisite: Physics 4B and Mathematics 3 (both completed with a grade of "C" or higher). 4 hours lecture, 3 hours laboratory. Transfer: CSU; UC; IGETC; C-ID: PHYS 215. (UC credit/unit limitations may apply).

5 MODERN PHYSICS 3 UNITS

Special relativity and modern physics, including photons, quantum mechanics, atoms, solids, nuclear physics, particle physics and cosmology. Prerequisite: Physics 4B (completed with grade of "C" or higher). 3 hours lecture. Transfer: CSU; UC; CSU/GE; IGETC.

11 DESCRIPTIVE PHYSICS 4 UNITS

Motion, gravitation, heat, light, sound, electricity, magnetism, atoms and nuclei. Present day scientific problems and developments such as alternative energy sources, solar energy, nuclear power, lasers, relativity and black holes. Designed for non-majors in physical science. Includes an introduction to laboratory, principles and techniques with emphasis on the basic concepts discussed in the class. May not receive credit if Physics 10 or Physics 10L has been completed. Strongly recommended: Mathematics 105 or 105L. 3 hours lecture, 3 hours laboratory. Transfer: CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).

18 PREPARATORY PHYSICS 3 UNITS

Basic problem solving techniques in mechanics as preparation for Physics 2A and Physics 4A. Methods and strategies used to solve quantitative Physics problems. Intended for liberal arts, mathematics, engineering, and science students. Emphasis on group problem-solving activities, diversity in problem-solving approaches, and detailed oral and written presentation of solutions. Strongly recommended: Math 36 or Math 37 (completed with a grade of "C" or higher) or equivalent. 3 hours. Transfer: CSU.

25 COMPUTATIONAL METHODS FOR ENGINEERS AND SCIENTISTS

3 UNITS

(See also Engineering 25 and Mathematics 25)

Methodology and techniques for solving engineering/science problems using numerical-analysis computer-application programs MATLAB and EXCEL. Technical computing and visualization using MATLAB software. Examples and applications from applied-mathematics, physical-mechanics, electrical circuits, biology, thermal systems, fluid systems, and other branches of science and engineering. Prerequisite: Mathematics 1. Strongly recommended: Computer Science 8. May not receive credit if Engineering 25 or Mathematics 25 has been completed. 2 hours lecture, 3 hours laboratory. Transfer: CSU; UC.

122 PHYSICS SUPPLEMENTAL INSTRUCTION .5-1 UNIT

An individualized course with tutorial assistance from an instructor, student tutor, in basic Physics computations designed to develop self-confidence and prepare the student for problem solving in the normal navigation of physics courses. 1.5-3 hours

PHYSIOLOGY

(See Biological Sciences)



POLITICAL SCIENCE (POSC)

DEGREE:

AA-T-POLITICAL SCIENCE

POLITICAL SCIENCE

ASSOCIATE IN ARTS FOR TRANSFER (AA-T)

Political science majors evaluate societal, national, and global events by learning about forms of political organization and political processes. Political science is consistently a top ten major because of its versatility and applicability to today's world. The Political Science degree provides students with a strong foundation in American government, political theory, and comparative and international politics for those who wish to pursue a Bachelor of Arts degree in political science and for those who seek careers in public service, education, law, or business. For more information about Associate in Arts for Transfer and Associate in Science for Transfer degrees information in the catalog in the Transfer Section.

PROGRAM-LEVEL OUTCOMES

1. Develop analytical capacities so that students are able to analyze complex local, domestic, and international political events.
2. Familiarize students with the issues surrounding the exercise of political power.

REQUIRED CORE

	UNITS
POSC 1 Introduction to American Government	3

List A (select three - 9-10 units)

	Units
POSC 20 Comparative Politics	3
POSC 25 Introduction to Political Theory	3
POSC 30 International Relations	3
MTH 43 Introduction to Probability and Statistics	4

List B (select two - 6 units)

	Units
Any List A course not used above	
POSC 10 Seminar in Comparative Politics	3
POSC 12 Introduction to California State and Local Government	3
POSC 45 Law and Democracy	3
or	
ADMJ 45 Law and Democracy	3
GEOG 2 Cultural Geography	3
ANTH 3 Social and Cultural Anthropology	3
ANTH 5 Cultures of the U.S. in Global Perspective	3
SOCI 2 Social Problems	3
SOCI 3 Introduction to Race and Ethnic Relations	3
COMM 11 Intercultural Communication	3
ECN 1 Principles of Microeconomics	3
ECN 2 Principles of Macroeconomics	3

**GENERAL EDUCATION COURSES**

CSU GE or IGETC (CSU) requirements: 37-39 units

(Possible Double-counting: 12 units)

CSU transfer Electives as needed to reach 60 CSU transferable units

TOTAL UNITS: 60 units

All courses in the major or area of emphasis are required to have a grade of "C" or higher, and a cumulative GPA of 2.0 must be achieved.

TOTAL UNITS **18 - 19**

POLITICAL SCIENCE (POSC)**1 INTRODUCTION TO AMERICAN GOVERNMENT 3 UNITS**

Introduction to the historical development and current structure of American political ideals and institutions, including the Federal and California Constitutions, civil liberties and civil rights, political parties, campaigns and elections, and citizenship duties. 3 hours lecture. Strongly Recommended: Eligibility for ENGL 1A. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: POLS 110.

10 SEMINAR IN COMPARATIVE POLITICS 3 UNITS

General introduction to a major subfield of comparative politics, or intensive exploration of a contemporary theme, topic, or region. 3 hours lecture. Strongly Recommended: Eligibility for ENGL 1A. Transfer: CSU.

12 INTRODUCTION TO CALIFORNIA STATE AND LOCAL GOVERNMENT 3 UNITS

Organization and operation of government and politics at the state, county and municipal level; emphasis on current issues and the influences of historical, geographical, political, economic and social factors on California public policy. 3 hours lecture. Strongly Recommended: POSC 1 and , Eligibility for ENGL 1A. Transfer: CSU; UC; CSU/GE; IGETC.

20 COMPARATIVE POLITICS 3 UNITS

Introduces basic concepts and methods of comparative analysis. Covers contemporary forms of governments and institutions; survey of political regimes and political problems of selected governments. 3 hours lecture. Strongly Recommended: POSC 1 and , Eligibility for ENGL 1A. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: POLS 130.

25 INTRODUCTION TO POLITICAL THEORY 3 UNITS

An introduction to various theoretical approaches to politics, including selected political thinkers from ancient times to the present, and the application of political theory to current political realities. 3 hours lecture. Strongly Recommended: Eligibility for ENGL 1A. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: POLS 120.

30 INTERNATIONAL RELATIONS 3 UNITS

An introduction to international politics, theories, and global institutions, focusing on international actors and their interactions with one another. Emphasis on current events. 3 hours lecture. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: POLS 140.

45 LAW AND DEMOCRACY 3 UNITS

(See also Administration of Justice 45)

The Law and Democracy course is an interdisciplinary exploration of themes such as equality, citizenship, participation, access, and social justice. We will look critically at how law structures as well as limits democracy and examine the idea of democracy as a universal value. Strongly recommended: eligibility for English 1A. Prerequisite: Political Science 1 or Administration of Justice 50 (completed with a grade of "C" or higher). (UC unit/credit limits may apply) **May not receive credit if Administration of Justice 45 has been completed.** 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

51 STUDENT LEADERSHIP LABORATORY 1-2 UNITS

(See also General Studies 51)

Training in the student leadership and governance with an emphasis on practical application of effective student leadership skills. Students will attend and participate in Associated Student Senate meetings, club, or shared governance meetings to receive credit for this course. May not receive credit if General Studies 51 has been completed. 3-6 hours laboratory. Transfer: CSU.

PORTUGUESE (PORT)**50A PORTUGUESE CONVERSATION AND CULTURE I 3 UNITS**

Development of a basic understanding of spoken Portuguese through pronunciation, vocabulary, and applied grammar. Introduction to the everyday culture of Portuguese-speaking people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. 3 hours lecture, 1 hour laboratory. Transfer: CSU.

50B PORTUGUESE CONVERSATION AND CULTURE II 3 UNITS

Development of skills learned in Portuguese 50A. Understanding of spoken Portuguese through pronunciation, vocabulary, and applied grammar. Further study of the life and culture of the Portuguese-speaking people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: Portuguese 50A (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

50C PORTUGUESE CONVERSATION AND CULTURE III 3 UNITS

Development of skills learned in Portuguese 50B. Understanding of spoken Portuguese through pronunciation, vocabulary, and applied grammar. Further study of the culture and everyday life activities of Portuguese-speaking people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: Portuguese 50B (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU.



50D PORTUGUESE CONVERSATION AND CULTURE I 3 UNITS

Development of skills learned in Portuguese 50C. Understanding of spoken Portuguese through pronunciation, vocabulary, and applied grammar. Further study of the culture and everyday life activities of Portuguese-speaking people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: Portuguese 50C (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

PSYCHOLOGY (PSY)

DEGREE:

AA-T-PSYCHOLOGY

PSYCHOLOGY
ASSOCIATE IN ARTS FOR TRANSFER DEGREE

The Associate in Arts in Psychology for Transfer degree is designed to prepare students who wish to pursue a Bachelor's degree in the field of Psychology. Psychology is a diverse discipline with many areas of specialty. It continually seeks to understand and explain the human experience; how we think, act, feel and relate to ourselves and others. Students completing this degree will learn to apply science, as well as use multiple theoretical perspectives and levels of analysis to understand problems related to behavior and mental processes. The successful student will apply critical and creative thinking to problem solving, and apply psychological knowledge to personal, social, organizational, cross-cultural and global issues. This degree provides students with foundational knowledge, skills, and values consistent with the science and application of Psychology while preparing them for upper division course work in the field. California Community College students who are awarded the Associate in Arts in Psychology for Transfer degree are guaranteed admission with junior standing somewhere in the CSU system, and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. Students are strongly encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals.

CAREER OPPORTUNITIES IN PSYCHOLOGY

Areas of specialization and careers in psychology include: Clinical/Counseling/Child Psychologist, Biopsychology, Cognitive, Cross-cultural, Developmental, Experimental Research, Educational, Ergonomics and Human Factors, Health, Forensic, Industrial/organizational, Personality, Social work, School and Sports psychology.

PROGRAM-LEVEL OUTCOMES

1. Demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology.
2. Respect and use critical and creative thinking, skeptical inquiry, and, when possible, the scientific approach to solve problems related to behavior and mental processes.

REQUIRED CORE		UNITS
PSY 1	General Psychology	3
PSY 4	Brain, Mind and Behavior	3
PSY 5	Introductory Statistics for the Behavioral and Social Sciences	4
PSY 2	Introduction to Psychological Methodology	3

LIST A (select one course)		Units
PSY 3	Social Psychology	3
PSY 12	Lifespan Psychology	3
BIOL 10	Introduction to the Science of Biology	4
BIOL 31	Introduction to College Biology	4

LIST B (select two courses)		Units
Any List A course not used above		
PSY 6	Abnormal Psychology	3
PSY 7	Introduction to Counseling Theory and Skills	3
PSY 8	Human Sexuality	3
PSY 33	Personal and Social Adjustment	3
PSY 45	Psychology of Creativity and Innovation	3
ANAT 1	General Human Anatomy	5
ANTH 1	Biological/Physical Anthropology	3
ANTH 3	Social and Cultural Anthropology	3
BIOL 25	Human Heredity and Evolution	3
BIOL 50	Anatomy and Physiology	4
PHSI 1	Human Physiology	5
POSC 1	Introduction to American Government	3
POSC 20	Comparative Politics	3
SOCI 1	Principles of Sociology	3
CSCI 14	Introduction to Structured Programming In C++	4
CSCI 15	Object-Oriented Programming Methods	4
MTH 20	Pre-Calculus Mathematics	5
MTH 37	Trigonometry with an Emphasis on its Geometric Foundations	5
MTH 36	Trigonometry	3
MTH 1	Calculus I	5
MTH 2	Calculus II	5
PHYS 2A	Introduction to Physics I	4
PHYS 2B	Introduction to Physics II	4
CHEM 1A	General College Chemistry I	5
CHEM 1B	General College Chemistry II	5
PHYS 4A	General Physics I	5
PHYS 4B	General Physics II	5
PHYS 4C	General Physics III	5
ENGL 4	Critical Thinking and Writing about Literature	3
ENGL 7	Critical Thinking and Writing across Disciplines	3



Required courses in the major 22-27
 CSU GE or IGETC (CSU) 37-39 units
 (Possible Double Counting: 16-19 units)
 CSU transfer Electives as needed to reach 60 CSU transferable units.
 TOTAL UNITS: 60 units

All courses in the major area of emphasis are required to have a grade of "C" or higher, and a cumulative GPA of 2.0 must be achieved.

TOTAL UNITS **22 - 27**

PSYCHOLOGY (PSY)

1 GENERAL PSYCHOLOGY 3 UNITS

Introduces students to the scientific study of behavior and mental processes. Provides an overview of major psychological concepts and theories in such areas as consciousness, learning, memory, motivation, perception, personality, stress, and social behavior. Strongly recommended: Eligibility for English 1A. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: PSY 110.

2 INTRODUCTION TO PSYCHOLOGICAL METHODOLOGY 3 UNITS

This course surveys various psychological research methods with an emphasis on research design, experimental procedures, descriptive methods, instrumentation, and the collection, analysis, interpretation, and reporting of research data. Research design and methodology will be examined through a review of research in a variety of the subdisciplines of psychology. Prerequisite: PSY 1 (completed with a grade of "C" or higher) and PSY 5 (completed with a grade of "C" or higher) or an equivalent statistics course (completed with a grade of "C" or higher). Strongly Recommended: ENGL 1A. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: PSY 200.

3 INTRODUCTION TO SOCIAL PSYCHOLOGY 3 UNITS

Introduction to theories and concepts that explain individual behavior in social settings. Topics include research methods, social perception, social cognition, beliefs, prejudice/discrimination, interpersonal relationships, aggression, and group behavior. Strongly recommended: Psychology 1. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

4 BRAIN, MIND AND BEHAVIOR 3 UNITS

This course introduces the scientific study of the biological bases of behavior and its fundamental role in the neurosciences. Physiological, hormonal, and neurochemical mechanisms, and brain-behavior relationships underlying the psychological phenomena of sensation, perception, regulatory processes, emotion, learning, memory, neurological, developmental and psychological disorders will be addressed. The course also notes historical scientific contributions and current research principles for studying brain-behavior relationships and mental processes. Ethical standards for human and animal research are discussed in the context of both invasive and non-invasive experimental research. 3 hours. Prerequisite: PSY 1 Strongly Recommended: ENGL 1A. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: PSY 150.

5 INTRODUCTORY STATISTICS FOR THE BEHAVIORAL AND SOCIAL SCIENCES 4 UNITS

Statistics as applied to the behavioral and social sciences. Applications using data from disciplines including psychology, social sciences, business, life science, health science, and education. The use of probability techniques, hypothesis testing, and predictive techniques to facilitate decision-making. Topics include: descriptive and inferential statistics; probability and sampling distributions; correlation and linear regression; analysis of variance (ANOVA), chi-square and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. Prerequisite: MTH 54 (completed with a grade of "C" or higher), and MTH 54L or MTH 55 (completed with a grade of "C" or higher), and MTH 55L or an appropriate skill level demonstrated through the Mathematics Assessment process. Strongly Recommended: ENGL 1A. 4 hours lecture. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: SOCI 125, Math 110. (UC credit/unit limitations may apply)

5W INTRODUCTORY STATISTICS FOR THE BEHAVIORAL AND SOCIAL SCIENCES WORKSHOP .25-.5 UNIT

Practice and application of statistics. Laboratory, study group, collaborative workshop or computer laboratory time for Introductory Statistics for the Behavioral and Social Sciences. Corequisite: PSY 5. 1-2 hours laboratory. Transfer: CSU.

6 ABNORMAL PSYCHOLOGY 3 UNITS

An overview of the field of abnormal psychology. Introduces students to the major classifications of mental health disorders from the perspective of symptoms and behavior, causes, diagnosis and treatment. Examines historical, socio-cultural and contemporary understanding of mental illness. Includes disorders of mood, anxiety, psychosis, substance abuse, personality and other disorders in adults and children. Strongly recommended: Eligibility for English 1A. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: PSY 120.

7 INTRODUCTION TO COUNSELING THEORY AND SKILLS 3 UNITS

Introduction to counseling theory and process with emphasis on fundamental principles of behavior change. Includes essential counseling skills, major counseling theories, and legal and ethical issues. Strongly recommended: Psychology 1. 3 hours. Transfer: CSU.

8 HUMAN SEXUALITY 3 UNITS

(See also Health 8 and Sociology 8)
 Physiological and psychosocial aspects of sexual health in our contemporary society. Understanding the interrelationship of attitude and behavior as it relates to sexual well-being and sexual integrity. May not receive credit if Health 8 or Sociology 8 has been completed. 3 hours. Transfer: CSU; UC; CSU/GE.

12 LIFESPAN PSYCHOLOGY**3 UNITS**

Introduction to the psychological, physiological, socio-cultural and sociohistorical factors influencing development from conception through death. Emphasis on the process of normal development and its variations. Examination of theoretical models and research for practical application. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: PSY 180.

25 STRESS MANAGEMENT AND HEALTH PSYCHOLOGY**2 UNITS**

Analysis of the psychological, physiological and psychosocial factors that influence health, stress and illness, and personal well-being. Explores coping with stress, reducing stress, emotion and illness, pressure-cooked kids, children and stress, can't slow down, the mind as healer, the relaxation response, focusing mind, and maximizing performance. 2 hours. Transfer: CSU

25L STRESS MANAGEMENT AND HEALTH PSYCHOLOGY LABORATORY**.5 UNIT**

Using a scientific approach to the study of stress management, this laboratory will introduce students to current stress reduction techniques used in the field of health psychology. An analysis of the mental, physiological, and nutritional factors which help produce optimal-personal performance in daily living activities will be investigated. Prerequisite: Completion or current enrollment in Psychology 25. 1.5 hours laboratory.

33 PERSONAL AND SOCIAL ADJUSTMENT**3 UNITS**

Personality and behavior theory, personality assessment, and techniques of increasing personal effectiveness; basic human nature and the development of human potentialities through genetic inheritance, maturation and learning in a physical and socio-cultural environment; dynamics of individual and group behavior, motivation, stress, adjustive and maladjustive behavior and group and individual interaction. Strongly recommended: English 1A or 52A. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

45 PSYCHOLOGY OF CREATIVITY AND INNOVATION**3 UNITS**

Introduction to psychological processes involved in creativity, innovation and problem solving. Survey of current theories and research on creativity and innovation. Emphasis on improving creative and problem solving abilities. 3 hours. Transfer: CSU.

PSYCHOLOGY–COUNSELING (PSCN)**DEGREE:**

AA-T—ELEMENTARY TEACHER EDUCATION

AA—HUMAN SERVICES

AS—HUMAN SERVICES

AA—LIBERAL ARTS

CERTIFICATE OF ACHIEVEMENT:

CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION—BREADTH (CSU GE BREADTH)

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

CERTIFICATE OF PROFICIENCY:

CASE MANAGEMENT FOR HUMAN SERVICES

MULTICULTURAL AWARENESS/RELATIONS FOR THE SERVICE PROVIDER

MULTICULTURAL AWARENESS/SELF REFLECTION

ELEMENTARY TEACHER EDUCATION

ASSOCIATE IN ARTS FOR TRANSFER DEGREE

The Associate in Arts in Liberal Studies: Elementary Teacher Education for Transfer Degree enables the student to prepare to transfer, primarily to a CSU school, with a major in Elementary Teacher Preparation. This pattern encompasses the new multiple subject matter program standards adopted by the California Commission on Teacher Credentialing. CSU General Education-Breadth and other university requirements are subsumed in the Associate in Arts in Elementary Teacher Education degree. Not all of the lower division classes may be available at Chabot; you may need to complete additional lower division classes after transfer.

PROGRAM-LEVEL OUTCOMES

1. Develop effective speaking and writing skills.
2. Apply logic, reasoning and problem solving.
3. Develop creative and innovative abilities.



REQUIRED CORE		UNITS
ECD 11	Exploring Education	3
ECD 56	Child Growth and Development	3
BIOL 10	Introduction to the Science of Biology	4
	or	
BIOL 31	Introduction to College Biology	4
CHEM 10	Introduction to Chemistry	4
	or	
CHEM 31	Introduction to College Chemistry and	4
PHYS 11	Descriptive Physics	4
COMM 1	Fundamentals of Speech Communication	3
ENGL 1A	Critical Reading and Composition	3
ENGL 4	Critical Thinking and Writing about Literature	3
ENGL 7	Critical Thinking and Writing across Disciplines	3
GEOG 5	World Regional Geography	3
HIS 3	World History: Beginnings to 1500	3
HIS 7	U.S. History Through Reconstruction	3
MTH 41	Number Systems	3
POSC 1	Introduction to American Government	3

LIST A (Select one course) 3 units	Units	
ARTH 1	Introduction to Art	3
MUSL 1	Introduction to Music	3
THTR 10	Introduction to Theater Arts	3

LIST B: (Select additional courses from the list below) 12 units	Units	
ART 23	2-D Foundations	3
ART 24	3-D Foundations	3
CHEM 30A	Introductory and Applied Chemistry I	4
COMM 46	Argumentation and Debate	3
ENGL 20	Studies in Shakespeare	3
ENGL 21	The Evolution of the Black Writer	3
ENGL 22	Mexican American/Latino Literature of the U.S.	3
ENGL 24	Storytelling in Modern American Novels and Films	3
ENGL 25	Asian-American Literature	3
ENGL 26	The Literature of Immigration and Migration	3
ENGL 28	Classic and Contemporary Youth Literature	3
ENGL 31	Introduction to Gay and Lesbian Literature	3
ENGL 32	U.S. Women's Literature	3
ENGL 45	Studies in Fiction	3
ENGL 48	The Literature of the Holocaust	3
GEOG 2	Cultural Geography	3
HLTH 1	Introduction to Health	3
MTH 43	Introduction to Probability and Statistics	4
	or	
PSY 5	Introductory Statistics for the Behavioral and Social Sciences	4
PHIL 50	God, Nature, Human Nature	3
PHIL 60	Introduction to Philosophy: Ethics	3
POSC 25	Introduction to Political Theory	3
PSY 12	Lifespan Psychology	3
RELS 50	Religions of the World	3
SOCI 1	Principles of Sociology	3

Required courses in the major: 56-60 units
 CSU/GE or IGETC (CSU) requirements 37-39 units
 (Possible double-counting: 37-39 units)
 CSU transfer Electives as needed to reach 60 CSU transferable units (0-4 units)
TOTAL UNITS: 60 units

All courses in the major or area of emphasis are required to have a grade of C or higher, and a cumulative GPA of 2.0 must be achieved.

TOTAL UNITS 56 - 60

HUMAN SERVICES

ASSOCIATE IN ARTS

This degree has been designed to provide students an introduction to social and/or psychological theory, multicultural theory, and Psychology-Counseling skills needed to work as a service provider in a social service setting. Students may follow either the AA or AS General Education pattern, as desired.

YEAR ONE	UNITS	
PSY 1	General Psychology	3
	or	
SOCI 1	Principles of Sociology	3
PSCN 1	Introduction to Psychology-Counseling in a Multicultural Environment	3
	or	
PSY 7	Introduction to Counseling Theory and Skills	3
	Self-Assessment/Self-Reflection Course(s)	3
	Option Course	3

YEAR TWO	UNITS	
PSY 2	Introduction to Psychological Methodology	3
	or	
PSY 3	Social Psychology	3
	or	
SOCI 2	Social Problems	3
PSCN 4	Multiethnic/Cultural Communication	3
	or	
COMM 11	Intercultural Communication	3
PSCN 2	Introduction to Case Management for Human Services	3
PSCN 11	Interpersonal Relationships	2
PSCN 13	Multicultural Issues in Contemporary America	3
PSCN 80	Occupational Community Service in Human Services	2

General Education Units for A.S. Degree

For specific A.S. General Education courses refer to catalog section on A.S. Graduation Requirements.



REQUIRED MAJOR SPECIFIC G.E. REQUIREMENT. Complete a minimum of 3 units from the following.

	Units
PSCN 1 Introduction to Psychology-Counseling in a Multicultural Environment	3
PSCN 4 Multiethnic/Cultural Communication	3
PSCN 13 Multicultural Issues in Contemporary America	3

Select a total of 3 units from the following self-assessment/self-reflection courses:

	Units
PSCN 10 Career and Educational Planning	2
PSCN 12 Self-Esteem For Success	2
PSCN 15 College Study Skills	2
PSCN 20 The College Experience	2
PSCN 23 College Readiness	3
PSCN 26 College Success and the Chicano Experience	1
PSCN 36 Women in Transition	1

Select a total of 3 units from the following options:

	Units
ANTH 3 Social and Cultural Anthropology	3
ANTH 5 Cultures of the U.S. in Global Perspective	3
ECD 60 Introduction to the Young Child With Exceptional Needs	3
ENGL 21 The Evolution of the Black Writer	3
ENGL 22 Mexican American/Latino Literature of the U.S.	3
ENGL 32 U.S. Women's Literature	3
ENGL 38 Survey of Modern British Literature	3
ES 1 Introduction to Ethnic Studies	3
ES 2 Contemporary Ethnic Minority Families in the U.S.	3
ES 3 Introduction to Muslim-American Studies	3
FORE 1A Beginning Foreign Language	0
HLTH 4 Women and Health	3
HLTH 8 Human Sexuality	3
MUSL 5 American Cultures in Music	3
PSY 6 Abnormal Psychology	3
PSY 8 Human Sexuality	3
PSY 12 Lifespan Psychology	3
RELS 50 Religions of the World	3
RELS 70 Spiritual Traditions and Contemporary Voices	3
SL 64 Beginning Sign Language	3
SL 65 Intermediate Sign Language	3
SOCI 3 Introduction to Race and Ethnic Relations	3
SOCI 4 Marriage and Family Relations	3
SOCI 8 Human Sexuality	3
SOCI 10 Introduction to Asian American Studies	3

TOTAL UNITS **28**

HUMAN SERVICES
ASSOCIATE IN SCIENCE DEGREE

This degree has been designed to provide students an introduction to social and/or psychological theory, multicultural theory, and Psychology-Counseling skills needed to work as a service provider in a social service setting. Students may follow either the AA or AS General Education pattern, as desired.

YEAR ONE **UNITS**

PSY 1 General Psychology	3
or	
SOCI 1 Principles of Sociology	3
PSCN 1 Introduction to Psychology-Counseling in a Multicultural Environment	3
or	
PSY 7 Introduction to Counseling Theory and Skills	3
Self-Assessment/Self-Reflection Course(s)	3
Option Course	3

YEAR TWO **UNITS**

PSY 2 Introduction to Psychological Methodology	3
or	
PSY 3 Social Psychology	3
or	
SOCI 2 Social Problems	3
PSCN 4 Multiethnic/Cultural Communication	3
or	
COMM 11 Intercultural Communication	3
PSCN 2 Introduction to Case Management for Human Services	3
PSCN 11 Interpersonal Relationships	2
PSCN 13 Multicultural Issues in Contemporary America	3
PSCN 80 Occupational Community Service in Human Services	2

General Education Units for A.S. Degree

For specific A.S. General Education courses refer to catalog section on A.S. Graduation Requirements.

REQUIRED MAJOR SPECIFIC G.E. REQUIREMENT. Complete a minimum of 3 units from the following.

	Units
PSCN 1 Introduction to Psychology-Counseling in a Multicultural Environment	3
PSCN 4 Multiethnic/Cultural Communication	3
PSCN 13 Multicultural Issues in Contemporary America	3



Select a total of 3 units from the following self-assessment/self-reflection courses:

	Units
PSCN 10 Career and Educational Planning	2
PSCN 12 Self-Esteem For Success	2
PSCN 15 College Study Skills	2
PSCN 20 The College Experience	2
PSCN 23 College Readiness	3
PSCN 26 College Success and the Chicano Experience	1
PSCN 36 Women in Transition	1

Select a total of 3 units from the following options:

	Units
ANTH 3 Social and Cultural Anthropology	3
ANTH 5 Cultures of the U.S. in Global Perspective	3
ECD 60 Introduction to the Young Child With Exceptional Needs	3
ENGL 21 The Evolution of the Black Writer	3
ENGL 22 Mexican American/Latino Literature of the U.S.	3
ENGL 32 U.S. Women's Literature	3
ENGL 38 Survey of Modern British Literature	3
ES 1 Introduction to Ethnic Studies	3
ES 2 Contemporary Ethnic Minority Families in the U.S.	3
ES 3 Introduction to Muslim-American Studies	3
FORE 1A Beginning Foreign Language	0
HLTH 4 Women and Health	3
HLTH 8 Human Sexuality	3
MUSL 5 American Cultures in Music	3
PSY 6 Abnormal Psychology	3
PSY 8 Human Sexuality	3
PSY 12 Lifespan Psychology	3
RELS 50 Religions of the World	3
RELS 70 Spiritual Traditions and Contemporary Voices	3
SL 64 Beginning Sign Language	3
SL 65 Intermediate Sign Language	3
SOCI 3 Introduction to Race and Ethnic Relations	3
SOCI 4 Marriage and Family Relations	3
SOCI 8 Human Sexuality	3
SOCI 10 Introduction to Asian American Studies	3

TOTAL UNITS 28

LIBERAL ARTS
ASSOCIATE IN ARTS DEGREE

The Associate in Arts Liberal Arts Degree is designed for students who wish a broad knowledge of liberal arts and sciences plus additional coursework in an "Area of Emphasis." The Associate in Arts Liberal Arts Degree would be an ideal choice for those students planning on transferring to the California State University or University of California as the student can satisfy general education requirements, plus focus on transferable course work that relates to majors at CSU or UC.

- Choose either Option I or II or III for the General Education pattern related to your educational goal.
- Complete 18 units in one "Area of Emphasis" from those outlined below. (Note: Where appropriate, courses in the "area of emphasis" may also be counted for a GE area.) Only one AA Degree in Liberal Arts may be earned.
- For ALL OPTIONS: complete necessary Chabot Graduation and Proficiency requirements (see pages 21-24).
- Classes from other colleges will need to be comparable to those listed in the Area of Emphasis. (See a counselor or the Articulation Officer for assistance.)
- Refer to www.assist.org for transfer details.

PROGRAM-LEVEL OUTCOMES

1. Develop effective speaking and writing skills.
2. Apply logic, reasoning and problem solving.
3. Develop creative and innovative abilities.

OPTION	Units
<p>I. Associate in Arts Degree (General Education pattern) Intended for students who are not planning on transferring to a university as an academic goal. Associate in Arts General Education and Graduation requirements are found in the Chabot Catalog.</p>	26
<p>II. CSU - General Education Breadth pattern Designed for students planning to transfer to one of the California State Universities (CSU). Minimum units necessary to meet CSU/GE Certification requirements. Complete Chabot Graduation and Proficiency requirements. This information can be found in the Chabot Catalog.</p>	33 - 39
<p>OPTION III. IGETC - Intersegmental General Education Transfer Curriculum pattern Designed for students planning to transfer to a UC or CSU university. Minimum units necessary to meet IGETC Certification requirements. Complete Chabot Graduation and Proficiency requirements. This information can be found in the Chabot Catalog.</p>	34 - 37

**AREAS OF EMPHASIS 1-5 (18 UNITS)**

1. 18 units from one Area of Emphasis listed below.
2. When appropriate, courses selected can be used to also fulfill GE areas.
3. For depth, include a minimum of two courses from a single discipline; for breadth, include courses from at least two disciplines.
4. Courses from other colleges need to satisfy CSU/GE or IGETC requirements, or satisfy a similar GE area at the transfer college, or satisfy the Area of Emphasis criteria.

ELECTIVE UNITS

Electives may be necessary to total 60 overall units required for the Associate degree. (Note: Options II and III will require 60 CSU (Option II) or UC (Option III) transferable units to meet transfer requirements. (see a counselor for assistance)

EMPHASIS 1 -ARTS AND HUMANITIES**18 UNITS**

Select a minimum of 18 units from the following Arts and Humanities courses. For depth, include a minimum of two courses from a single discipline; for breadth, include courses from at least two disciplines. When appropriate, courses can also be counted toward completion of General Education requirements.

These courses emphasize the study of cultural, literary, humanistic activities and artistic expression of human beings. Students will evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them in artistic and cultural creation. Students will also learn to value aesthetic understanding and incorporate these concepts when constructing value judgments.

Art 2AB, 3ABCD, 7ABCD, 12ABCD, 13ABCD, 16ABCD, 17AB, 18A, 20, 22, 23, 24,
 Art History 1, 4, 5, 6, 8, 20, 51A
 Chinese 1AB
 English 11AB, 12AB, 13AB, 20, 21, 22, 24, 25, 26, 28, 31, 32, 35, 41, 45, 48
 French 1AB, 2AB
 General Studies 31
 German 1AB, 2AB
 History 1, 2, 3, 4
 Humanities 50, 60, 65, 68, 72
 Italian 1AB, 2AB
 Japanese 1AB
 Music; (MUSA) 11, 20AB, 21AB, 22AB, 23AB, 40
 23AB, 40; (MUSL) 1, 2ABCD, 3, 4, 5, 6, 8; (MUSP) 12, 13, 14, 15, 18, 41, 44, 45, 47
 Philosophy 50, 60, 65, 70
 Photography 20, 50, 60, 61, 64A, 65, 66
 Religious Studies 50, 64, 65, 72
 Sign Language 64, 65, 66
 Spanish 1AB, 2AB
 Theater Arts 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 16ABCD, 21, 22, 30ABCD, 47ABCD, 48ABCD, 50ABCD

EMPHASIS 2- COMMUNICATION IN THE ENGLISH LANGUAGE 18 UNITS

Select a minimum of 18 units from the following Communication in the English Language courses. For depth, include a minimum of two courses from a single discipline; for breadth, include courses from at least two disciplines. When appropriate, courses can be counted toward completion of General Education requirements.

These courses emphasize the content of communication as well as the form and should provide an understanding of the psychological basis and social significance of communication. Students will be able to assess communication as the process of human symbolic interaction. Students will also develop skills in the areas of reasoning and advocacy, organization, accuracy, reading and listening effectively.

Students will be able to integrate important concepts of critical thinking as related to the development of analysis, critical evaluation, the ability to reason inductively and deductively that will enable them to make important decisions regarding their own lives and society at large.

Communication Studies 1, 2, 3, 6, 10, 11, 12, 20, 46, 48, 50
 English 4, 7, 11AB, 12AB, 13AB, 70
 History 5
 Mass Communications 14, 20, 42
 Philosophy 60, 65, 70
 Psychology-Counseling 4

EMPHASIS 3 - SOCIAL AND BEHAVIORAL SCIENCES 18 UNITS

Select a minimum of 18 units from the following Social and Behavioral Science courses. For depth, include a minimum of two courses from a single discipline; for breadth, include courses from at least two disciplines. When appropriate, courses can be counted toward completion of General Education requirements. These courses emphasize the perspective, concepts, theories and methodologies of the disciplines typically found in the vast variety of disciplines that comprise study in the Social and Behavioral Sciences. Students will study about themselves and others as members of a larger society. Topics and discussion to stimulate critical thinking about ways people have acted in response to their societies will allow students to evaluate how societies and social subgroups operate.

Administration of Justice 45, 50, 60, 70
 Anthropology 1, 2, 3, 4, 5, 7, 8, 12, 13
 Business 10, 12, 17, 20, 36
 Communication Studies 11, 12
 Early Childhood Development 52, 56, 67
 Economics 1, 2, 10
 Entrepreneurship 5
 Ethnic Studies 1, 2, 3
 General Studies 31
 Geography (no physical geography) 2, 3, 5, 10, 12, 20
 Health 8

History 1, 2, 3, 4, 7, 8, 12, 19, 20, 21, 22, 25, 27
 Mass Communications 40, 41
 Political Science 1, 10, 12, 20, 25, 30, 45
 Psychology 1, 2, 3, 4, 6, 8, 12, 33, 45
 Psychology-Counseling 1, 4, 13
 Sociology 1, 2, 3, 4, 5, 6, 8, 10, 30

EMPHASIS 4-MATHEMATICS AND SCIENCE 18 UNITS

Select a minimum of 18 units from the following Mathematics and Science courses. For depth, include a minimum of two courses from a single discipline; for breadth, include courses from at least two disciplines. When appropriate, courses can be counted toward completion of General Education requirements.

These courses emphasize the natural sciences which examine the physical universe, its life forms and its natural phenomena. Courses in Mathematics emphasize the development of mathematical and quantitative reasoning skills beyond the level of intermediate algebra. Students will be able to demonstrate an understanding of the methodologies of science as investigative tools.

Students will also examine the influence that the acquisition of scientific knowledge has on the development of the world's civilizations.

Anthropology 1, 1L, 13
 Astronomy 10, 20, 30 (Lab)
 Biotechnology 20, 30
 Chemistry 1AB, 8, 10, 12AB, 30AB, 31
 Environmental Science 10, 11
 Geography (excluding cultural studies) 1, 1L, 8
 Mathematics 1, 2, 3, 4, 6, 8, 15, 16, 20, 31, 33, 36, 37, 41, 47, 43
 Physical Science 15
 Physics 2AB, 3AB, 4AB, 5, 11
 Psychology 4, 5

Life Sciences (the classes below *may* be considered as one discipline):

Anatomy 1
 Biology 2, 4, 6, 10, 25, 31, 50
 Microbiology 1
 Physiology 1

EMPHASIS 5 - KINESIOLOGY AND WELLNESS 18 UNITS

Select a minimum of 18 units from the following three Kinesiology and Wellness Clusters. Cluster 1 (6 units), Cluster 2 (3 units), Cluster 3 (3 units) and an additional 3 units chosen from Clusters 1, 2 or 3 for a total of 18 units. For depth, include a minimum of two courses from a single discipline; for breadth, include courses from at least two disciplines. When appropriate, courses can also be counted toward completion of General Education requirements.

Strongly recommended: Students who are getting the AA degree with an emphasis in Kinesiology and Wellness are encouraged to take a minimum of three activity courses in at least three different PEAC Activity areas: Aquatics, Fitness, Individual Sports, Team Sports, and Dance.

Cluster 1 — Physical Education and Movement 6 units

(Minimum 6 units)
 EMS 1
 Health 60
 Kinesiology 1, 2, 3BB, 5, 12BK, 16, 17 (unit limits on UC transfer)

Cluster 2 — Scientific and Nutrition Background 3 units

(Minimum 3 units)
 Anatomy 1
 Biology 10, 31, 50
 Chemistry 10, 30A, 30B
 Health 1, (unit limits on UC transfer of both courses with KINE 14)
 Kinesiology 14 (unit limits on UC transfer with HLTH 1)
 Microbiology 1
 Nutrition 1
 Physics 11, 2A, 2B
 Physiology 1





Cluster 3 — Behavioral Development and Diversity **3 units**
 (Minimum 3 units)
 Health 8
 Kinesiology CSA
 Psychology-Counseling 1, 10, 22
 Psychology 1, 2, 8, 12
 Sociology 1, 3, 8

Additional Units from Clusters 1, 2, and/or 3 **0-6 units**
 (0-6 units)
 Complete additional units from any cluster above **18 total units**
 to total 18 units.

Strongly Recommended: Students pursuing this degree with an emphasis in Kinesiology and Wellness are encouraged to take a minimum of three activity courses in at least three different PE areas: Aquatics, Fitness, Individual Sports, Teams Sports and Dance (activity units cannot not be counted toward 18 units needed in the Kinesiology and Wellness “area of emphasis”).

**CALIFORNIA STATE UNIVERSITY GENERAL
 EDUCATION BREADTH
 (CSU GE BREADTH)
 CERTIFICATE OF ACHIEVEMENT**

Students planning to transfer to the California State University (CSU) system have the opportunity to complete their lower division general education requirements at Chabot College. By earning the CSU GE Breadth Certificate of Achievement, students will complete all of the lower division general education courses for any CSU campus. For more detailed course information, consult the current CSU General Education Breadth flyers in the Counseling Division and/or www.assist.org. Counselors are available to assist you in determining if the CSU GE Breadth pattern is aligned with your transfer goals.

PROGRAM-LEVEL OUTCOMES

1. Develop effective speaking and writing skills.
2. Apply logic, reasoning and problem solving.
3. Develop creative and innovative abilities

Complete the required number of units/courses in each category:

Area A: Communications in the English Language	9
Area B: The Physical and Life Sciences and Mathematics	9
Area C: Arts, Literature, Philosophy and Foreign Languages	9
Area D: Human Social, Political and Economic Institutions and Behavior	9
Area E: Understanding and Self Development	3
Area F: US History, Constitution and American Ideals *	0-6

*Courses completed in Area F can be counted in Area D

IMPORTANT NOTE: Earning this Certificate of Achievement will not replace the CSU/GE Certification document. The “Certification of CSU/GE” is a separate process. Students must request CSU/GE Certification at the time they request a final Chabot transcript to be sent to the one CSU campus they will attend. File this GE Certification request with the Chabot College Office of Admissions and Records.

TOTAL UNITS **39 - 45**

**INTERSEGMENTAL GENERAL EDUCATION
 TRANSFER CURRICULUM (IGETC)
 CERTIFICATE OF ACHIEVEMENT**

Students planning to transfer to the California State University (CSU) or the University of California (UC) system have the opportunity to complete their lower division general education requirements at Chabot College. By earning the IGETC Certificate of Achievement, students will complete all of the lower division general education courses for any CSU campus and for most UC campuses. For more detailed course information, consult the current IGETC flyers in the Counseling Division and/or www.assist.org. Counselors are available to assist you in determining if the IGETC pattern is aligned with your transfer goals.

Students earning an AA-T or AS-T degree must complete the Area 1C: Oral Communication Requirement for either OPTION I or II below.

PROGRAM-LEVEL OUTCOMES

1. Develop effective speaking and writing skills.
2. Understand and apply logic, reasoning and problem solving.
3. Develop creative and innovative abilities.

OPTION I: CSU Transfer Complete the required number of units/courses in each category: (39-45 Units)

	Units
Area 1. English Composition	
Group A: English Composition	3
Group B: Critical Thinking	3
Group C: Oral Communication	3
Area 2: Mathematical Concepts and Quantitative Reasoning	3
Area 3: Arts, and Humanities	9
Area 4: Social and Behavioral Sciences	9
Area 5: Physical and Biological Sciences	7
US History, Constitution and American Ideals *	0 - 6

*Courses completed for the US History, Constitution and American Ideas can also be used for Area 4.



OPTION II: UC Transfer. Complete the required number of units/ courses in each category: (36-46 units)

	Units
Area 1: English Communications	
Group A: English Composition	3
Group B: Critical Thinking	3
Area 2: Mathematical Concepts and Quantitative Reasoning	3
Area 3: Arts, and Humanities	9
Area 4: Social and Behavioral Sciences	9
Area 5: Physical and Biological Sciences	7
Area 6A: Language Other Than English (LOTE)	0 - 10

TOTAL UNITS **39 - 45**

IMPORTANT NOTE: Earning this Certificate of Achievement will not replace the IGETC Certification document. The "Certification of IGETC" is a separate process. Students must request IGETC Certification at the time they request a final Chabot transcript to be sent to the one CSU or UC campus they will attend. File this IGETC Certification request with the Chabot College Office of Admissions and Records.

CASE MANAGEMENT FOR HUMAN SERVICES
CERTIFICATE OF PROFICIENCY

This certificate has been designed to provide students an introduction to case management skills needed to work effectively with consumers in a human services environment. Students will develop multicultural awareness and cultural competence needed to work in a social service setting, along with computer literacy and medical terminology. Students earning this Certificate of Proficiency will investigate multi-cultural issues and concepts which can affect social service delivery, learn computer applications skills, complete an introductory medical terminology course, and complete course work in the fundamentals of human services and case management to document intake, assessment, evaluation, and ongoing delivery of service(s).

PROGRAM-LEVEL OUTCOMES

1. Demonstrate an effective work in a human services environment.
2. Develop multicultural awareness and cultural competency needed to work in a social services setting along with computer literacy and medical terminology skills.

CORE COURSES	UNITS
PSCN 1 Introduction to Psychology-Counseling in a Multicultural Environment	3
PSCN 2 Introduction to Case Management for Human Services	3
CAS 88A Microsoft Word I or	3
CSCI 8 Computer Literacy	3
PSCN 4 Multiethnic/Cultural Communication or	3
PSCN 13 Multicultural Issues in Contemporary America	3
HLTH 51A Basic Medical Terminology	4
TOTAL	16

**MULTICULTURAL
AWARENESS/RELATIONS
FOR THE SERVICE PROVIDER**
CERTIFICATE OF PROFICIENCY

This certificate has been designed to provide students an introduction to multicultural theory and Psychology-Counseling skills needed to work as a service provider in a social services setting. The student will conduct a self-assessment and self-reflection component as part of the skill set. A self-assessment needs to be made in relationship to the culturally diverse community and world in which we currently live but also to evaluate service providers' internalized values which may affect their provision of services in a non-judgmental process. Students completing this Certificate of Proficiency will investigate a variety of multicultural issues and concepts which can affect social service delivery, evaluate themselves within the context of the diverse culture, further their inquiry into a cultural area of personal interest, and complete a course specifically targeted to Psychology-Counseling issues/skills as they relate to a multicultural community.

PROGRAM-LEVEL OUTCOMES

1. Demonstrate an understanding and provide an overview of the field of human and social services in both the public and private sector.
2. Demonstrate cultural awareness and sensitivity needed to respectfully serve the diverse service population.
3. Demonstrate the ability to use introspection to increase self-awareness.

CORE COURSES	UNITS
PSCN 13 Multicultural Issues in Contemporary America	3
Self Assessments/Self Reflection Course(s)	3
Option course	3
PSCN 11 Interpersonal Relationships	2
PSCN 4 Multiethnic/Cultural Communication or	3
COMM 11 Intercultural Communication	3
PSCN 1 Introduction to Psychology-Counseling in a Multicultural Environment or	3
PSY 7 Introduction to Counseling Theory and Skills	3

Select a total of 3 units from the following self assessments/self reflection courses:

PSCN 10 Career and Educational Planning	2
PSCN 12 Self-Esteem For Success	2
PSCN 15 College Study Skills	2
PSCN 20 The College Experience	2
PSCN 23 College Readiness	3
PSCN 26 College Success and the Chicano Experience	1
PSCN 36 Women in Transition	1



Select a total of 3 units from the following option:		Units
ANTH 3	Social and Cultural Anthropology	3
ANTH 5	Cultures of the U.S. in Global Perspective	3
ECD 60	Introduction to the Young Child With Exceptional Needs	3
ENGL 21	The Evolution of the Black Writer	3
ENGL 22	Mexican American/Latino Literature of the U.S.	3
ENGL 32	U.S. Women's Literature	3
ENGL 38	Survey of Modern British Literature	3
ES 1	Introduction to Ethnic Studies	3
ES 2	Contemporary Ethnic Minority Families in the U.S.	3
ES 3	Introduction to Muslim-American Studies	3
Foreign Language 1A	(Beginning foreign language)	5
HLTH 4	Women and Health	3
HLTH 8	Human Sexuality	3
MUSL 5	American Cultures in Music	3
PSY 6	Abnormal Psychology	3
PSY 8	Human Sexuality	3
PSY 12	Lifespan Psychology	3
RELS 50	Religions of the World	3
RELS 70	Spiritual Traditions and Contemporary Voices	3
SL 64	Beginning Sign Language	3
SL 65	Intermediate Sign Language	3
SOCI 3	Introduction to Race and Ethnic Relations	3
SOCI 4	Marriage and Family Relations	3
SOCI 8	Human Sexuality	3
SOCI 10	Introduction to Asian American Studies	3

TOTAL UNITS 17

**MULTICULTURAL AWARENESS/
SELF-REFLECTION
CERTIFICATE OF PROFICIENCY**

This certificate has been designed to provide individual students the opportunity to conduct self-assessment and self-reflection as part of a personal development plan. The self must be analyzed in context of the community at large, which is becoming more diverse and multicultural. Hence, a self-assessment needs to be made in relationship to the culturally diverse community and world in which we currently live. Students completing this Certificate of Proficiency will be exposed to a variety of multicultural issues and concepts, evaluate themselves within the context of the diverse culture and further their inquiry into a cultural area of personal interest to the student.

PROGRAM-LEVEL OUTCOMES

1. Demonstrate cultural awareness and sensitivity needed to respectfully serve the diverse service population.
2. Demonstrate the ability to use introspection to increase self-awareness.

CORE COURSES		UNITS
PSCN 13	Multicultural Issues in Contemporary America	3
	Self-Assessment/Self-Reflection Courses	4
	Option Course(s)	5
PSCN 11	Interpersonal Relationships	2
PSCN 4	Multiethnic/Cultural Communication	3
	or	
COMM 11	Intercultural Communication	3

Select a total of 4 units from the following self-assessment/self-reflection courses:

	Units	
PSCN 10	Career and Educational Planning	2
PSCN 12	Self-Esteem For Success	2
PSCN 15	College Study Skills	2
PSCN 20	The College Experience	2
PSCN 23	College Readiness	3
PSCN 26	College Success and the Chicano Experience	1
PSCN 36	Women in Transition	1

Select a total of 5 units from the following options:

	Units	
ANTH 3	Social and Cultural Anthropology	3
ANTH 5	Cultures of the U.S. in Global Perspective	3
ECD 60	Introduction to the Young Child With Exceptional Needs	3
ENGL 21	The Evolution of the Black Writer	3
ENGL 22	Mexican American/Latino Literature of the U.S.	3
ENGL 32	U.S. Women's Literature	3
ENGL 38	Survey of Modern British Literature	3
ES 1	Introduction to Ethnic Studies	3
ES 2	Contemporary Ethnic Minority Families in the U.S.	3
ES 3	Introduction to Muslim-American Studies	3
Foreign Language 1A	(Beginning foreign language)	5
HLTH 4	Women and Health	3
HLTH 8	Human Sexuality	3
MUSL 5	American Cultures in Music	3
PSY 6	Abnormal Psychology	3
PSY 8	Human Sexuality	3
PSY 12	Lifespan Psychology	3
RELS 50	Religions of the World	3
RELS 70	Spiritual Traditions and Contemporary Voices	3
SL 64	Beginning Sign Language	3
SL 65	Intermediate Sign Language	3
SOCI 3	Introduction to Race and Ethnic Relations	3
SOCI 4	Marriage and Family Relations	3
SOCI 8	Human Sexuality	3
SOCI 10	Introduction to Asian American Studies	3

TOTAL UNITS 17



PSYCHOLOGY-COUNSELING (PSCN)

1 INTRODUCTION TO PSYCHOLOGY-COUNSELING IN A MULTICULTURAL ENVIRONMENT 3 UNITS

Introduction to psychology-counseling theory, skills, techniques, and processes in working with individuals and/or groups. Multiculturalism in American society. Emphasis placed on issues and processes of a minority-majority environment. Includes review of demographics, social services, community agencies, and intervention programs. Fundamental counseling techniques, counseling theory and socio-cultural issues related to working in the "service provider" role. Strongly recommended: eligibility for English 1A and completion of Psychology-Counseling 13. 3 hours. Transfer: CSU; CSU/GE.

2 INTRODUCTION TO CASE MANAGEMENT FOR HUMAN SERVICES 3 UNITS

Introduction to case management theory, models and techniques. Multicultural issues affecting case management theory. Emphasis placed on case management philosophy, ethical issues, concepts and practices. Analysis of needs, documentation and confidentiality and individualized consumer plan development. Analysis of inter-agency collaboration. Includes issues of monitoring an ongoing case management plan and maintaining consumer commitment to plan success. Designed to provide students with knowledge in case management theory implementation for Human Service, Social Work and/or Mental Health. Prerequisite: Psychology-Counseling 1. 3 hours. Transfer: CSU

4 MULTIETHNIC/CULTURAL COMMUNICATION 3 UNITS

Exploration of intercultural and interethnic communication behavior of individuals in relationships and/or groups, personal identity formation in the American context, historical development of culturally influenced communication styles, and evolution of new, American inter- and intra-group communication. Will examine social science research models, including single subject case study, in three (3) of the five (5) following groups: African-Americans, Asian-Americans, Native/Indigenous Americans, Pacific Islander-Americans, Hispanic-Americans. Students will attend Bay Area cultural events. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC. (UC credit/unit limitations may apply).

7 CONTEMPORARY ISSUES 1-3 UNITS

Contemporary life issues related to social effectiveness, and educational and career development. Explores issues through an examination of current counseling related research findings and resource materials. Limit of 6 units. 1-3 hours. Transfer: CSU; CSU/GE.

10 CAREER AND EDUCATIONAL PLANNING 2 UNITS

Exploration of the concept of career, educational and life planning focusing on personal career development through self-assessment. Emphasis on clarification of individual interests, values, needs, abilities and decision making styles, investigation of occupational opportunities in the world of work, and introduction to job search strategies, resume writing and interview skills. Designed for those undecided or uncertain about their career and educational plans. (May not receive credit if Psychology-Counseling 10A or 10B has been completed.) 2 hours. Transfer: CSU; CSU/GE.

11 INTERPERSONAL RELATIONSHIPS 2 UNITS

Exploration of behavior in interactions with others. Improving interpersonal relationships to benefit academic, career, and personal development. 2 hours. Transfer: CSU; CSU/GE.

12 SELF-ESTEEM FOR SUCCESS 2 UNITS

Exploration of causes of low self-esteem, methods for building self-esteem and habits for success. Designed to improve self-esteem to ensure academic success. 2 hours. Transfer: CSU.

13 MULTICULTURAL ISSUES IN CONTEMPORARY AMERICA 3 UNITS

Exploration of issues relating to the multicultural community in which we live today. Interpersonal relations and communication. Focus on improving the individual's understanding of other cultures and how those cultures impact the American lifestyle. Includes exploration of myths and misunderstandings. Discussion of four specific cultures or sub-cultures from the following groups: (1) African-American, (2) Asian-American, (3) Hispanic-American, (4) Native-American, (5) Middle Eastern-American, (6) European-American, (7) Gay/Lesbian American, (8) Disabled American. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

15 COLLEGE STUDY SKILLS 2 UNITS

Review of study skill techniques for success in college. Emphasis on time management, personal learning style, active listening, note-taking and test-taking strategies. Includes modeling, practice, and evaluation of study skill techniques. 2 hours. Transfer: CSU.

18 UNIVERSITY TRANSFER PLANNING .5-1 UNIT

Introduction to the resources and planning process needed to ease transition from a community college to a four-year college or university. Development of a transfer action plan. Preparation for major and general education requirements. Application cycles and important deadlines. Recommended for those transferring to four-year colleges or universities. .5-1 hour. Transfer: UC, CSU. (UC credit/unit limitations may apply).

**20 THE COLLEGE EXPERIENCE****2 UNITS**

Explores academic programs, college policies, student rights and responsibilities, graduation and transfer requirements, student services, campus resources and activities and the concept of educational planning through self-assessment. Emphasis is on self-assessment of individual interests, values, needs, and abilities. Designed for first-time, returning, and re-entry students to ease transition into college and maximize successful matriculation through college towards academic/vocational goals. (May not be taken for credit if General Studies 20 has been completed.) 2 hours. Transfer: UC, CSU; CSU/GE. (UC credit/unit limitations may apply).

21 STRATEGIES FOR COLLEGE SUCCESS**1 UNIT**

Assessment of learning and college life. Introduction to practical strategies for success in college. Includes student academic programs, college policies, student rights and responsibilities, graduation and transfer requirements, and campus resources and activities. Designed for first-time, returning and re-entry students to ease transition into college and maximize success towards their academic goals. (May not be taken for credit if Psychology Counseling 20 or General Studies 20 has been completed.) 1 hour. Transfer: CSU.

22 COLLEGE SUCCESS SERIES**.5–1.5 UNITS**

Workshop format focusing on practical strategies for success in college. Workshop topics may include personal, academic and/or career goal setting; transitioning and adapting to higher education; educational planning for graduation and/or transfer; support services and campus resources; majors and careers; plus other topics as student needs are identified. Designed for all students to maximize their potential with emphasis on enhancing the new student's transition into college. 9–27 total hours. Transfer: CSU.

23 COLLEGE READINESS**3 UNITS**

An intensive course designed to assist students to identify and develop critical thinking and problem-solving skills that will facilitate their adjustment to the college environment and the successful pursuit of their educational goals. This course provides an introduction to academic skills and strategies, campus resources and activities, decision making and planning, college policies and procedures, interpersonal communications, self-exploration and goal setting, student rights and responsibilities, and campus visitation to at least one 4-year college. 3 hours. Transfer UC, CSU. (UC credit/unit limitations may apply).

25 TRANSITION TO COLLEGE**.5 UNIT**

A survey of practical strategies for academic success focusing on the new student. Examines goal setting, college policies, graduation requirements, campus resources, student rights and responsibilities, and student educational planning. Designed for first-time college students in order to enhance their transition into college and maximize their academic/vocational potential. 9 total hours. Transfer: CSU.

26 COLLEGE SUCCESS AND THE CHICANO EXPERIENCE**1 UNIT**

Investigation of the relationship between Chicano cultural experiences and college success. Emphasis on examination of how Chicano cultural experience can affect collegiate success. 1 hour. Transfer: UC, CSU. (UC credit/unit limitations may apply).

28 ORIENTATION FOR INTERNATIONAL STUDENTS**1 UNIT**

Exploration of practical strategies for academic success and to experience a positive transition into the American educational system and cultural focusing on the new international student. Examines goal setting, cultural adjustment, college policies, graduation requirements, campus resources, programs and services, student rights and responsibilities, introduction to the California systems of higher education, student educational planning and other topics as needs are identified. Designed for first-time International college students in order to enhance their transition into American society and maximize successful matriculation through college toward their academic goals. 1 hour. Transfer: UC, CSU. (UC credit/unit limitations may apply).

36 WOMEN IN TRANSITION**2 UNITS**

A first step back to school for women facing career, personal or academic decisions following divorce, widowhood, and other major life changes. Includes clarification of values and goals, career planning, increasing self-esteem, and identification of college resources to help attain success in college. Transfer: CSU.

80 OCCUPATIONAL COMMUNITY SERVICE IN HUMAN SERVICES**2 UNITS**

Community service experience (54-80 hours) in a human services setting approved by PSCN faculty as related to student's Human Services major or classes at Chabot. Cooperative effort between student and service site supervisor to accomplish agreed upon work objective and broaden experiences for the term enrolled. Student provides verification of service experience hours during the term. Student will make arrangements for hours and duties directly with site supervisor, after getting site approved by PSCN faculty. Community service hours will be provided on a volunteer basis unless other arrangements are made between the student and site supervisor. Students will meet with PSCN instructor one hour per week on campus for input and volunteer experience discussion focused on building working relationships and providing appropriate services to clients. 1 hour lecture, 3 hours laboratory. Transfer: CSU.



RADIO AND TELEVISION BROADCASTING

DEGREE:

AA—RADIO AND TELEVISION BROADCASTING

This two-year diploma program provides students with formal training to become leaders in the communication industry. All aspects of the radio and television industries are covered with the common focus of making graduates job-ready. Equal importance is given to creative production elements and technical quality in operations. The program follows a hands-on approach to learning, stressing the importance of teamwork. Students follow a common curriculum that emphasizes announcing, broadcast journalism and production techniques.

RADIO AND TELEVISION BROADCASTING ASSOCIATE IN ARTS DEGREE

PROGRAM-LEVEL OUTCOMES

1. Understand the development of the different types of productions created for television.
2. Use the current technology of television to develop and produce broadcast content.

YEAR ONE	UNITS
MCOM 40 Introduction to Broadcasting	3
MCOM 41 Introduction to Mass Communications	3
MCOM 44 Radio & Television Announcing	3
MCOM 50 Radio Studio Techniques	3
MCOM 60 Television Studio Techniques I	3

YEARTWO	UNITS
MCOM 43 Advertsng Sales & Media Mngmnt	4
MCOM 61 TV Studio Techniques II	3
MCOM 58 Intermediate KCRH Radio Experience or	3
MCOM 68 KCTH Television Experience	3
MCOM 42 Writing for Broadcasting	3

General Education Courses

For specific General Education courses refer to catalog section on A. A. Graduation Requirements.

TOTAL UNITS 28

REAL ESTATE (REST)

DEGREE:

AA—REAL ESTATE

CERTIFICATE OF ACHIEVEMENT:

REAL ESTATE

CERTIFICATE OF PROFICIENCY:

REAL ESTATE

Real estate courses help prepare students for the Real Estate Licensure Examination and employment as real estate salespersons, brokers, appraisers, escrow officers and real estate planners.

REAL ESTATE ASSOCIATE IN ARTS DEGREE

PROGRAM-LEVEL OUTCOMES

1. Identify and explain duties and obligations and legal aspect of real estate.
2. Acquire and practice skills to pass state licensing exam and a career thereafter.
3. Identify opportunities and strategies for successful real estate ventures

YEAR ONE	UNITS
BUS 12 Introduction to Business	3
REST 80 Real Estate Principles	3
REST 81A Legal Aspects of Real Estate	3
REST 84 Real Estate Practice	3
REST 85 Real Estate Economics	3
or	
BUS 1A Financial Accounting	4
or	
BUS 7 Accounting for Small Business	3
BUS 31 Professional Selling	3
or	
BUS 36 Introduction to Marketing	3

YEARTWO	UNITS
REST 82A Real Estate Appraisal	3
REST 83 Real Estate Finance	3
Option	3

General Education Courses

For specific General Education courses refer to catalog section on A.A. Graduation Requirements.



Option select one of the following courses:	Units
REST 81B Advanced Legal Aspects of Real Estate	3
REST 82B Advanced Real Estate Appraisal	3
REST 86 Escrows	3
REST 88 Real Estate Property Management	3
REST 89 Real Estate Office Administration	3
BUS 10 Business Law	4
CAS 50 Introduction to Computer Application Systems	3

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS 27 - 28

REAL ESTATE CERTIFICATE OF ACHIEVEMENT

PROGRAM-LEVEL OUTCOMES

1. Identify and explain duties and obligations and legal aspect of real estate.
2. Acquire and practice skills to pass state licensing exam and a career thereafter.

CORE COURSES

UNITS

REST 80 Real Estate Principles	3
REST 81A Legal Aspects of Real Estate	3
REST 82A Real Estate Appraisal	3
REST 85 Real Estate Economics	3
or	
BUS 1A Financial Accounting	4
or	
BUS 7 Accounting for Small Business	3
REST 83 Real Estate Finance	3
REST 84 Real Estate Practice	3
Option	9

Option select 9 units from the following courses: Units

REST 81B Advanced Legal Aspects of Real Estate	3
REST 82B Advanced Real Estate Appraisal	3
REST 86 Escrows	3
REST 88 Real Estate Property Management	3
REST 89 Real Estate Office Administration	3
BUS 10 Business Law	4
BUS 31 Professional Selling	3
or	
BUS 36 Introduction to Marketing	3
CAS 50 Introduction to Computer Application Systems	3

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS 27 - 28

REAL ESTATE CERTIFICATE OF PROFICIENCY

PROGRAM-LEVEL OUTCOMES

1. Identify and explain duties and obligations and legal aspect of real estate.
2. Acquire and practice skills to pass state licensing exam and a career thereafter.
3. Identify opportunities and strategies for successful real estate ventures

CORE COURSES

UNITS

REST 80 Real Estate Principles	3
REST 84 Real Estate Practice	3
REST 90 Exam Preparation: CA Licensing	2

Choose one of the following

Units

REST 81A Legal Aspects of Real Estate	3
REST 82A Real Estate Appraisal	3
REST 83 Real Estate Finance	3
REST 88 Real Estate Property Management	3

TOTAL UNITS

11

REAL ESTATE (REST)

80 REAL ESTATE PRINCIPLES

3 UNITS

Real and personal property acquisition, ownership, estates in real property, joint tenancies, partnerships, sales contracts, homesteads, deeds and taxes. Methods of financing, real estate practices, and regulation of the real estate business. 3 hours. Transfer: CSU.

81A LEGAL ASPECTS OF REAL ESTATE

3 UNITS

California law as applied to real estate problems; origin and sources of California real estate law; contracts in general; real estate contracts; law of agency and regulation of agents; classification of property; easements; acquisition and transfer of interests of property; methods and incidents of ownership; land description; recordation. Strongly recommended: Real Estate 80. 3 hours. Transfer: CSU.

81B ADVANCED LEGAL ASPECTS OF REAL ESTATE

3 UNITS

Continuation of Real Estate 81A in advanced aspects of California real estate law; homestead; land contracts; mortgages, deeds of trust and involuntary lien; governmental regulations; landlord-tenant relationships; title insurance; probate proceedings. Prerequisite: Real Estate 81A. 3 hours. Transfer: CSU.

82A REAL ESTATE APPRAISAL

3 UNITS

Real estate appraisals, the appraisal process, and approaches, methods, and techniques used to determine value of various types of property; current trends, neighborhood analysis, and preparing an appraisal report; emphasis on residential and single-unit property. Strongly recommended: Real Estate 80. 3 hours. Transfer: CSU.

82B ADVANCED REAL ESTATE APPRAISAL 3 UNITS

Appraisal of multiple unit property including commercial and special purpose properties; analysis of income and expenses; techniques of capitalization; emphasis on income producing properties. Strongly recommended: Real Estate 82A. 3 hours. Transfer: CSU.

83 REAL ESTATE FINANCE 3 UNITS

Financing transactions in the real estate business and in lending institutions; analysis of money markets, interest rates and real estate financing. Financing procedures, residential and commercial financing. Strongly Recommended: REST 80 (completed with a grade of "C" or higher). 3 hours. Transfer: CSU.

84 REAL ESTATE PRACTICE 3 UNITS

Principles and practical techniques of operating a real estate business. Emphasis on daily activities of brokers and salesperson; introduction to appraising, exchanges, listings, advertising, financing, and marketing. Exchanges, specialized brokerage, property management, professional and public relations. Strongly recommended: Real Estate 80. 3 hours. Transfer: CSU.

85 REAL ESTATE ECONOMICS 3 UNITS

Economic factors influencing real estate. Effects of real estate and business cycles on commercial and residential markets. Government fiscal and monetary policies. Urban development and renewal, regulation of land uses. Strongly recommended: Real Estate 80. 3 hours. Transfer: CSU.

86 ESCROWS 3 UNITS

Escrow procedures for various types of business transactions with emphasis on real estate. Preparation, processing and closing of sales and escrow documents in the transferring, encumbering, and describing of real property. Title search and reports. Strongly recommended: Real Estate 80. 3 hours. Transfer: CSU.

87 REAL ESTATE TAXATION AND EXCHANGES 3 UNITS

Tax aspects of real estate transactions as they affect buyers and sellers. Aspects of real estate marketing that deal with exchanges. Laws pertaining to real estate taxation that affect exchange opportunities. Strongly recommended: Real Estate 80. 3 hours. Transfer: CSU.

88 REAL ESTATE PROPERTY MANAGEMENT 3 UNITS

Problems encountered by owners and resident managers of residential and commercial income properties; application of sound business principles in the pursuit of operational effectiveness. Strongly recommended: Real Estate 80. 3 hours. Transfer: CSU.

89 REAL ESTATE OFFICE ADMINISTRATION 3 UNITS

Practices essential to the management and operation of a real estate office; recruiting and management of sales personnel, office location, types of ownership, advertising, record keeping, budgeting, areas of specialization. Strongly recommended: Real Estate 80. 3 hours. Transfer: CSU.

90 EXAM PREPARATION: CA LICENSING 2 UNITS

This course is designed to prepare the student for the State of California DRE licensing examination. In the course of that preparation many real estate topics are covered in examination format. The following will be covered: Real and personal property acquisition, ownership, estates in real property, joint tenancies, partnerships, sales contracts, homesteads, deeds and taxes. Methods of financing, real estate practices, and regulation of the real estate business. 2 hours.

RECREATION AND REHABILITATION THERAPIES (RECR)

67 ACTIVITY DIRECTORS TRAINING 4 UNITS

Fundamentals of activity programming for patients in Skilled Nursing Facilities and Intermediate Care Facilities. Includes an overview of the specific job responsibilities of an activity director as described in Section 72389, Skilled Nursing Facility Regulations and Intermediate Care Facility Regulations of the State of California, Title 22. Methods used to develop and implement therapeutic, social, and restorative activities. Activity analysis, leadership and motivational methods appropriate for residents of long term care facilities. 4 hours. Transfer: CSU.



RELIGIOUS STUDIES (RELS)

50 RELIGIONS OF THE WORLD

3 UNITS

Introduction to the study of religion by (1) surveying the world religions, stating basic principles of each as shown by fundamental scriptures, practices and works of art, highlighting underlying patterns, OR (2) exploring themes and concepts, using the world religions as examples. Themes may include: grace, sin, enlightenment, suffering, and salvation. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

64 NATURE OF ISLAM

3 UNITS

Introduction to the nature of Islam as a religion or system for life, its culture and its impact on Muslim individuals and groups. Includes a brief history of Islam and Muslims in relation to the basic sources of Islam. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

65 RELIGIONS OF ASIA

3 UNITS

Religious traditions of Asia. Focus on a small subset of Asia's great religions. Comparison/contrast of at least three dominant traditions' religious/philosophical thought and everyday practice. Basic theory in academic study of religion. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

70 SPIRITUAL TRADITIONS AND CONTEMPORARY VOICES

3 UNITS

Selected themes in spirituality. Contemporary and global spirituality will be read in view of how they expand on and/or reinterpret traditional themes. What does it mean to live a spiritual life in the 21st century? How would contemporary people and major issues of our day benefit from a spiritual approach? Themes and practices will be explored. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

72 CONTEMPORARY ISSUES IN ISLAM

3 UNITS

Insight into the complexities of Islam throughout the world, especially in America. In depth study of topics such as gender roles, contribution of Muslims to the human civilization and the adaptation of Muslim culture into American society provide extensive opportunity for discussion and research. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS (STEM)

1 INTRODUCTION TO SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS

2 UNITS

Introduction to basic scientific concepts taken from biology, chemistry, computer science, engineering, mathematics and physics, the role of science as a human endeavor and the power of scientific inquiry to explore the interdependence of scientific fields through project based activities. STEM education pathways and careers will be investigated. Strongly Recommended: MTH 65. 1 hour lecture, 3 hours laboratory. Transfer: CSU

SERVICE LEARNING (SERV)

85A LEARNING IN ACTION: BEGINNING

2-3 UNITS

Placement in meaningful volunteer projects in community organizations or schools, approved by instructor and supervised by site supervisor. Introduction to practical skills and knowledge required to serve as effective volunteers or tutors. Discuss specific problems in the community and investigate and carry out service projects to address them. Class will meet one hour per week on campus for reflection and discussion of community issues, and students will serve at least 3 hours per week in community agencies or schools. 2-3 hours. Transfer: CSU.

85B LEARNING IN ACTION: INTERMEDIATE

2-3 UNITS

Placement in meaningful volunteer projects in community organizations or schools. Furthering of practical skills and knowledge required to serve as effective volunteers or tutors. Discuss specific problems in the community and investigate and carry out service projects to address them. Meets one hour per week on campus for reflection and discussion, and students serve at least 3 hours per week in community agencies or schools. Prerequisite: SERV 85A (completed with a grade of "P" or higher). 2-3 hours. Transfer: CSU.

85C LEARNING IN ACTION:

2-3 UNITS

ADVANCED INTERMEDIATE

Placement in meaningful volunteer projects in community organizations or schools. Advanced intermediate skills and knowledge required to serve as effective volunteers or tutors. Discuss specific problems in the community and investigate and carry out service projects to address them. Meets one hour per week on campus for reflection and discussion, and students serve at least 3 hours per week in community agencies or schools. Prerequisite: SERV 85B (completed with a grade of "P" or higher). 2-3 hours. Transfer: CSU.

85D LEARNING IN ACTION: ADVANCED

2-3 UNITS

Placement in meaningful volunteer projects in community organizations or schools. Advanced skills and knowledge to serve as effective volunteers or tutors. Discuss specific problems in the community and investigate and carry out service projects to address them. Meets one hour per week on campus for reflection and discussion, and students serve at least 3 hours per week in community agencies or schools. Prerequisite: SERV 85C (completed with a grade of "P" or higher). 2-3 hours. Transfer: CSU.

SIGN LANGUAGE (SL)

PROGRAM-LEVEL OUTCOMES

1. Demonstrate the basic knowledge of American Sign Language.
2. Demonstrate the ability to communicate using the vocabulary learned in class.

64 BEGINNING SIGN LANGUAGE 3 UNITS

Introduction to beginning communication skills through the language of sign, with emphasis on American Sign Language (ASL). Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Introduction to an understanding of deafness and the deaf culture. Basic sign vocabulary, the manual alphabet, and a contrast with various other sign systems used throughout the United States. 3 hours. Transfer: CSU; UC; CSU/GE.

65 INTERMEDIATE SIGN LANGUAGE 3 UNITS

Further development of skills and knowledge learned in Beginning Sign Language 64, with emphasis on American Sign Language (ASL). Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Communication of vocabulary building, with emphasis on applying ASL characteristics for communication in phrases and culturally specific language. Prerequisite: Sign Language 64 (completed with a grade of "C" or higher). 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

66 ADVANCED SIGN LANGUAGE 3 UNITS

Further development of American Sign Language (ASL) receptive/expressive skills and knowledge learned in Sign Language 65. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Emphasis on conversational skills in functional situations, continued vocabulary expansion and knowledge of Deaf culture and the Deaf community. Prerequisite: Sign Language 65 (completed with a grade of "C" or higher). 3 hours. Transfer: CSU; UC.

SOCIAL SCIENCE (SOCS)

DEGREE:

AA–SOCIAL SCIENCE (GENERAL)

An introduction to cultural analysis within and between cultural groups, both in the United States and throughout the world. Emphasis is on comparative theory and methodology. Recognizes the significance of globalization worldwide, its impact of cultures and treats culture as a dynamic entity. Prepares students for upper division majors in an array or subjects where cultural analysis is relevant including anthropology, geography, psychology, sociology, education, counseling, social welfare, global studies, peace studies, multicultural and gender studies.

SOCIAL SCIENCE (GENERAL)

ASSOCIATE IN ARTS DEGREE

PROGRAM-LEVEL OUTCOMES

1. Students are expected to demonstrate critical understanding of the structure of, and connections between, cultural and social groups historically and in current conditions.
2. Students are expected to develop the ability to employ conceptual frameworks of analysis to understand and evaluate social, cultural, economic, and/or political systems in the United States and abroad.

YEAR ONE		UNITS
ANTH 3	Social and Cultural Anthropology	3
	or	
GEOG 2	Cultural Geography	3
ECN 1	Principles of Microeconomics	3
	or	
ECN 10	General Economics	3
PSY 1	General Psychology	3
	or	
SOCI 1	Principles of Sociology	3

YEAR TWO		UNITS
HIS 2	History of Western Civilization Since 1600	3
	or	
HIS 12	History of California	3
POSC 20	Comparative Politics	3
	or	
POSC 30	International Relations	3
SOCI 2	Social Problems	3
	or	
HIS 27	U.S. Women's History	3

General Education Courses

For specific General Education courses refer to catalog section on A. A. Graduation Requirements.

TOTAL UNITS 18



SOCILOGY (SOCI)

DEGREE:

AA-T—SOCIOLOGY

SOCILOGY

ASSOCIATE IN ARTS FOR TRANSFER (AA-T)

A major in Sociology offers students the opportunity to learn about human social interaction in groups as small as two or as large as a society. Sociologists study the properties of groups and their influence on human behavior. Sociology is a social science whose principles are based on theory and empirical research. As a large discipline with over 100 specializations, Sociology offers students the opportunity to study criminology, family studies, social problems, gerontology, social psychology, social justice, inequality, gender, race and ethnicity, and globalization. Majoring in Sociology at Chabot College provides one with the introductory knowledge and skills that are required for an upper division major in Sociology as well as a large number of related fields including Social Work, Human Development, Liberal Studies, and Ethnic Studies. Majors in Sociology are often found in a diversity of careers including urban planning, social work, law, consulting, evaluation research, international relations, college level teaching, government administration, industrial relations, counseling, demography, and journalism.

PROGRAM-LEVEL OUTCOMES

1. Compare and contrast social structures (such as families, race/ethnic groups, religions) using the sociological perspective.
2. Use culture as a social construct to explain social phenomena.

REQUIRED CORE

	UNITS
SOCI 1 Principles of Sociology	3

List A (select two–6-7 units) Units

SOCI 2 Social Problems	3
SOCI 5 Introduction to Social Research Methods	3
MTH 43 Introduction to Probability and Statistics	4
or	
PSY 5 Introductory Statistics for the Behavioral and Social Sciences	4

List B (select two–6 -7units)

	Units
Any List A course not used above	
SOCI 3 Introduction to Race and Ethnic Relations	3
SOCI 4 Marriage and Family Relations	3
SOCI 6 Introduction to Gender	3

List C (select one–3 units)

	Units
Any List A or B course not used above	
SOCI 8 Human Sexuality	3
or	
PSY 8 Human Sexuality	3
or	
HLTH 8 Human Sexuality	3
SOCI 10 Introduction to Asian American Studies	3
SOCI 30 Social Gerontology	3
PSY 1 General Psychology	3
ANTH 3 Social and Cultural Anthropology	3
GEOG 2 Cultural Geography	3
ES 3 Introduction to Muslim-American Studies	3
HIS 21 The African-American Experience in U.S. History Since Reconstruction	3
HIS 22 Mexican American History and Culture	3
HIS 25 American Indian History and Culture	3

General Education Courses

CSU GE or IGETC (CSU) requirements: 37-39 units

(Possible Double-counting: 9 units)

CSU transfer Electives as needed to reach 60 CSU transferable units

TOTAL UNITS: 60 units

All courses making up the minimum must be transferable to CSU, and a minimum GPA of 2.0 must be maintained.

TOTAL UNITS 18 - 20

SOCILOGY (SOCI)

1 PRINCIPLES OF SOCIOLOGY 3 UNITS

Designed to illuminate the way students see their social world. Uses a sociological perspective: scientific study of human interaction and society, with emphasis on impact of groups on social behavior. Includes the systematic examination of culture, socialization, social organization, social class, race, gender, deviance, social change and empirical methodology. These content areas are woven throughout the fabric of the course, particularly as they affect the lives of at least three of the following groups: African Americans, Latino Americans, Asian Americans, Native Americans and/or women. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: SOCI 110.

2 SOCIAL PROBLEMS 3 UNITS

Introduction to social problems common to modern industrial society, and the role of principal institutions in social organization and social disorganization. Includes crime, juvenile delinquency, divorce, drug addiction, alcoholism, aging, mental health and population as well as other areas. Focus on modern American society. Strongly recommended: Sociology 1. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: SOCI 115.

3 INTRODUCTION TO RACE AND ETHNIC RELATIONS 3 UNITS

Analysis of racial and ethnic relations in the United States. Includes race, ethnicity, prejudice, discrimination and stereotyping, as well as theories and patterns of intergroup relations. Focus on contemporary American minorities; African Americans, Chicano/Latinos, Asian Americans, and Native Americans. Strongly recommended: Sociology 1. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: SOCI 150.

4 MARRIAGE AND FAMILY RELATIONS 3 UNITS

Sociological perspective of the family including mate selection, marital roles, marital adjustment, sexual adjustment, reproduction, child rearing, marital dissolution, and problems associated with the family in modern industrial society. Emphasis on methodology of family investigation. Strongly Recommended Sociology 1. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: SOCI 130.

5 INTRODUCTION TO SOCIAL RESEARCH METHODS 3 UNITS

Introduction to the primary research methods used by social scientists with an emphasis on the research methodologies of sociology. An integrative approach which includes an understanding of theory, sociological paradigms and scientific logic as these apply to the methodologies used in conducting empirical research. Focus will be on how social research is designed, conducted and analyzed both qualitatively and quantitatively. Major sociological research studies will be critiqued. Prerequisite: SOCI 1 (completed with a grade of "C" or higher). 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

6 INTRODUCTION TO GENDER 3 UNITS

A sociological analysis of the social construction of masculinity and femininity through history and cultures. Examines the debates on sex and gender. Analyzes the impact of economic and political change on gender expectations and practices. Focuses microanalysis of how institutions shape gender and microanalysis of how individuals are socialized and how they "do" and practice gender. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID SOCI 140.

8 HUMAN SEXUALITY 3 UNITS

(See also Health 8 or Psychology 8.)

Physiological and psychosocial aspects of sexual health in our contemporary society. Understanding the interrelationship of attitude and behavior as it relates to sexual well-being and sexual integrity. May not receive credit if Health 8 or Psychology 8 has been completed. 3 hours. Transfer: CSU; UC; CSU/GE.

10 INTRODUCTION TO ASIAN AMERICAN STUDIES 3 UNITS

An examination of the experiences and perspectives of Asian Americans from Mid-1800s to the present. Major topics will include family, political involvement, assimilation, education and employment. Provides a comparative context for understanding the panethnic movement. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

SPANISH (SPA)

DEGREE:

AA-SPANISH

AA-T-SPANISH

SPANISH

ASSOCIATE IN ARTS DEGREE

This program includes four semesters of thorough linguistic and cultural training in Spanish, along with courses that shed light on Mexico's and the Spanish-speaking world's role in history, art, the humanities, and our own contemporary society. Spanish is one of the world's most influential languages and there are opportunities for working in many industries where knowledge of Spanish is considered valuable. Many majors at four-year universities have foreign language requirements that would be satisfied with the language courses in this degree program. Courses offered in this program meet general education and transfer requirements.

PROGRAM-LEVEL OUTCOMES

1. Demonstrate proficiency in understanding and using, orally, the grammatical structures presented and vocabulary assigned.
2. Demonstrate proficiency in understanding and using, in writing, the grammatical structures presented and vocabulary assigned.

YEAR ONE		UNITS
SPA 1A	Beginning Spanish	5
ENGL 22	Mexican American/Latino Literature of the U.S.	3
SPA 1B	Elementary Spanish 1	5
SOCI 3	Introduction to Race and Ethnic Relations	3
or		
PSCN 13	Multicultural Issues in Contemporary America	3

YEAR TWO		UNITS
SPA 2A	Intermediate Spanish	4
HIS 22	Mexican American History and Culture	3
SPA 2B	Advanced Spanish	4
SPA 5	Field Work Relations	1

GENERAL EDUCATION COURSES

For specific General Education courses refer to catalog section on A. A. Graduation Requirements.

TOTAL UNITS 28

SPANISH

ASSOCIATE IN ARTS FOR TRANSFER (AA-T)

This program includes four semesters of thorough linguistic and cultural training in Spanish, along with courses that shed light on Mexico's and the Spanish-speaking world's role in history, art, the humanities, and our own contemporary society. Spanish is one of the world's most influential languages and there are opportunities for working in many industries where knowledge of Spanish is considered valuable. Many majors at four-year universities have foreign language requirements that would be satisfied with the language courses in this degree program. Courses offered in this program meet general education and transfer requirements. Successful completion of the transfer degree in Spanish guarantees the student acceptance to a local California State University to pursue a baccalaureate degree with Junior status.

REQUIRED CORE		UNITS
SPA 1A	Beginning Spanish	5
SPA 1B	Elementary Spanish 1	5
SPA 2A	Intermediate Spanish	4
SPA 2B	Advanced Spanish	4

ADDITIONAL REQUIRED COURSE

ENGL 4	Critical Thinking and Writing about Literature	3
or		
ENGL 7	Critical Thinking and Writing across Disciplines	3

REQUIRED COURSES FOR THE MAJOR: 21 units CSU/GE or IGETC (CSU): 37-39 units
 (Possible double counting 9 units)
 CSU transfer Elective units as needed to reach 60 CSU transferable units.

All courses in the major area of emphasis are required to have a grade of "C" or higher, and a cumulative GPA of 2.0 must be achieved.

TOTAL UNITS **21**

SPANISH (SPA)

1A BEGINNING SPANISH 5 UNITS

Introduction to the Spanish-speaking cultures of the world featuring the study and practice of the four language skills (listening, speaking, reading, and writing) of Spanish. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Strongly Recommended: Eligibility for ENGL 1A. May not receive credit if SPA 1A1 and/or 1A2 have been completed. 5 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; C-ID: SPAN 100. (UC credit/unit limitations may apply).

1A1 BEGINNING SPANISH 1 3 UNITS

Introduction to the Spanish-speaking cultures of the world featuring the study and practice of the four language skills (listening, speaking, reading, and writing) of Spanish. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Strongly Recommended: Eligibility for ENGL 1A. May not receive credit if SPA 1A has been completed. 3 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; C-ID: SPAN 100 (in combination with SPAN 1A2). (UC credit/unit limitations may apply).

1A2 BEGINNING SPANISH 2 3 UNITS

Further study of the Spanish-speaking cultures of the world featuring the study and practice of the four language skills (listening, speaking, reading, and writing) of Spanish. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. May not receive credit if SPA 1A has been completed. Prerequisite: SPA 1A1 (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; C-ID: SPAN 100 (in combination with SPAN 1A1). (UC credit/unit limitations may apply).

1B ELEMENTARY SPANISH 5 UNITS

Further study of Spanish-speaking cultures of the world featuring the acquisition of the four language skills (listening, speaking, reading, and writing) of Spanish begun in Spanish 1A. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. May not receive credit if SPA 1B1 and/or 1B2 have been completed. Prerequisite: SPA 1A (completed with a grade of "C" or higher) or , SPA 1A2 (completed with a grade of "C" or higher). 5 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: SPAN 110. (UC credit/unit limitations may apply).

1B1 ELEMENTARY SPANISH 1 3 UNITS

Further study of Spanish-speaking cultures of the world featuring the acquisition of the four language skills (listening, speaking, reading, and writing) of Spanish begun in Spanish 1A2. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. May not receive credit if SPA 1B has been completed. Prerequisite: SPA 1A2 (completed with a grade of "C" or higher) or SPA 1A (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; C-ID: SPAN 110 (in combination with SPAN 1B2). (UC credit/unit limitations may apply).

1B2 ELEMENTARY SPANISH 2 3 UNITS

Continue study of Spanish-speaking cultures of the world featuring the acquisition of the four language skills (listening, speaking, reading, and writing) of Spanish begun in Spanish 1B1. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. May not receive credit if SPA 1B has been completed. Prerequisite: SPA 1B1 (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: SPAN 110 (in combination with SPAN 1B1). (UC credit/unit limitations may apply).

2A INTERMEDIATE SPANISH**5 UNITS**

Review of grammar; reading of works of modern authors; practice in conversation and composition. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: SPA 1B (completed with a grade of "C" or higher) or , SPA 1B2 (completed with a grade of "C" or higher). 4 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: SPAN 200.

2B ADVANCED SPANISH**5 UNITS**

Reading of Hispanic authors; advanced review of grammar; emphasis on speaking and composition. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: SPA 2A (completed with a grade of "C" or higher). 4 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: SPAN 210.

5 FIELD WORK RELATIONS**1 UNIT**

Practice of Spanish language in a real setting and involvement in local Hispanic culture through volunteer field work in a local Hispanic community organization. Three class meetings in addition to approximately 4 hours per week of volunteer work. Strongly recommended: completion of or concurrent enrollment in Spanish 2A. 4 hours laboratory. Transfer: CSU; CSU/GE..

50A SPANISH CONVERSATION AND CULTURE I 3 UNITS

Development of a basic understanding of spoken Spanish through pronunciation, vocabulary, and applied grammar and an introduction to the everyday culture of Spanish-speaking people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. 3 hours lecture, 1 hour laboratory. Transfer: CSU.

50B SPANISH CONVERSATION AND CULTURE II 3 UNITS

Development of skills learned in Spanish 50A. Understanding of spoken Spanish through pronunciation, vocabulary, and applied grammar. Further study of life and the culture of the Spanish-speaking people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: Spanish 50A (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

50C SPANISH CONVERSATION AND CULTURE III 3 UNITS

Development of skills learned in Spanish 50B. Understanding of spoken Spanish through pronunciation, vocabulary, and applied grammar. Further study of the culture and everyday life activities of Spanish-speaking people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: Spanish 50B (completed with a grade of "C" or higher.) 3 hours lecture, 1 hour laboratory. Transfer: CSU.

50D SPANISH CONVERSATION AND CULTURE IV 3 UNITS

Development of skills learned in Spanish 50C. Understanding of spoken Spanish through pronunciation, vocabulary, and applied grammar. Further study of the culture and everyday life activities of Spanish-speaking people. Following an immersion instruction format, the class is entirely taught in the target world language of the selected course. Prerequisite: Spanish 50C (completed with a grade of "C" or higher.) 2 hours. Transfer: CSU.

SPEECH (SPCH)

(See Communication Studies)

THEATER ARTS (THTR)**DEGREE:**

AA-T—THEATRE ARTS

AA—THEATER ARTS

THEATRE ARTS

ASSOCIATE IN ARTS FOR TRANSFER DEGREE

The Associate in Arts in Theatre Arts for Transfer degree prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree in Theatre Arts, which can lead to careers in teaching, design, technical theater, theater management, professional performance, stage direction, stage management, etc. Completion of the Associate in Arts in Theatre Arts degree also provides guaranteed admission with junior status to the CSU system. Upon completion of the Associate in Arts in Theatre Arts degree, students will understand and be able to demonstrate the fundamental performance and technical production process for the theater arts, demonstrate knowledge of the historical and cultural dimensions of theater, and understand the interaction between script, actor, and audience in the areas of scenery, lighting, and costume.

CAREER OPPORTUNITIES IN THEATER ARTS

Performer; Acting for the stage, Acting in film and television, Acting for Voice-Overs in commercials, audio books and video games. Technical Theater; Stage Manager, Set Designer, Lighting Designer, Sound Designer, Costume Designer, Scenic Carpenter, Scenic Painter. Administrative Jobs; Casting Director, Artistic Director, Talent Agent, Out-Reach co-ordinator, Sales, Grant - writing. Directing; Theater, film, television, commercial.

**PROGRAM-LEVEL OUTCOMES**

1. Faculty develop and implement pedagogical strategies to achieve it.
2. Refine their curricula analysis of material with the more instinctive, fresh, creative impulses used in response to dramatic material.
3. Explore their creative ideas, and this confidence leads to myriad educational goals, not the least is to complete their goals at Chabot and move into the next stage of their lives.

REQUIRED CORE - 9 Units**UNITS**

THTR 10	Introduction to Theater Arts	3
THTR 1	Introduction to Acting	3
THTR 47A *	Introduction to College Theater Acting	3
	or	
THTR 48A *	College Theater Technical: Introduction	3

LIST A (Select 3) 9 units**Units**

THTR 2	Intermediate Acting	3
THTR 21	Introduction to Design for the Theater	3
THTR 47A *	Introduction to College Theater Acting	3
	or	
THTR 47B *	College Theater Acting: The Basics	3
	or	
THTR 48A *	College Theater Technical: Introduction	3
	or	
THTR 48B *	College Theater Technical: Beginning	3

Required major courses: 18 units

CSU GE or IGETC (CSU): 37-39 units

(Possible Double Counting: 6 units)

CSU transfer Electives as needed to reach 60 CSU transferable units.

TOTAL UNITS: 60 units

All courses in the major area of emphasis are required to have a grade of "C" or higher, and a cumulative GPA of 2.0 must be achieved.

TOTAL UNITS **18**

*Rehearsal and Performance (max 3 units) or Technical Theater Practicum (max 3 units) (if not used in Core)

PROGRAM-LEVEL OUTCOMES

1. Develop and implement pedagogical strategies to achieve it.
2. Refine their curricula and pedagogy to strengthen these student skills.
3. Explore their creative ideas, and this confidence leads to myriad educational goals, not the least is to complete their goals at Chabot and move into the next stage of their lives.

YEAR ONE**UNITS**

THTR 1	Introduction to Acting	3
THTR 10	Introduction to Theater Arts	3
THTR 20	Intro to Design for Theater	3
THTR 30	Emerging Work	3

YEAR TWO**UNITS**

THTR 48A	College Theater Technical: Introduction	3
	Option	3
	Option	3

General Education Courses

For specific General Education courses refer to catalog section on A.A. Graduation Requirements.

Select any six units from the following options:**Units**

THTR 2	Intermediate Acting	3
THTR 3	Improvisation for the Theater	3
THTR 4	Acting on Camera	3
THTR 5	Theater for Young Audiences	3
THTR 6	Movement for the Actor	3
THTR 7	Voice for the Actor	3
THTR 8	Audition Technique	3
THTR 11	Stage to Film	3
THTR 12	Film as Art & Communication	4
THTR 16	Dramatic Writing I	3
THTR 47A	Introduction to College Theater Acting	3
THTR 50	Production Management	1 - 6

TOTAL UNITS **21**

THEATER ARTS

ASSOCIATE IN ARTS DEGREE

An AA in Theater Arts will give students experience and knowledge in the broad range of skills required for the successful production of both original and published theatrical material. All majors must complete courses in acting, technical theater and production of original student work. Beyond that, students can focus more intensely on a given area, such as acting, directing, playwrighting or technical theater. The department produces a full array of theatrical genres including musicals, Shakespeare, contemporary American dramas and original student written pieces.

THEATER ARTS (THTR)

1 INTRODUCTION TO ACTING 3 UNITS

This course prepares a student to apply basic acting theory to performance and develops the skills of interpretation of drama through acting. Special attention is paid to skills for performance: memorization, stage movement, vocal production, and interpretation of text. 3 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE; C-ID: THTR 151.

2 INTERMEDIATE ACTING 3 UNITS

This course follows Acting I and continues the exploration of theories and techniques used in preparation for the interpretation of drama through acting. The emphasis will be placed on deepening the understanding of the acting process through character analysis, monologues, and scenes. Prerequisite: THTR 1 (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU; UC; C-ID: THTR 152.

3 IMPROVISATION FOR THE THEATER 3 UNITS

Introduction to the techniques and theories of improvisation and its various uses in theater. Development of the ability to think quickly, develop characters, work in an ensemble and create spontaneously through various exercises. Recommended for non-drama as well as drama majors. 3 hours lecture, 1 hour laboratory. Transfer: CSU; UC.



4 ACTING ON CAMERA 3 UNITS

Introduction to the principles and techniques of acting on camera. Different techniques for work with three cameras, commercials, acting for film and acting for television. Work with technique for various on camera types of auditions, i.e., commercials, film and television. Prerequisite: Theater Arts 1. Strongly recommended: Theater Arts 2. 3 hours. Transfer: CSU; UC.

5 THEATER FOR YOUNG AUDIENCES 3 UNITS

Participate in a theater production to be performed for local K-12 students. Plays will be cast by audition; however, everyone who enrolls will be part of the production. 3 hours. Transfer: CSU.

6 MOVEMENT FOR THE ACTOR 3 UNITS

Work with a variety of physical techniques to help with the development of character, improve stage presence, command focus, be in control of the story when on stage and be more specific in your work as an actor or improviser. Techniques include use of mask, improvisation and stage combat. Students work together to create their own scenes and performance pieces based on the work in class. Prerequisite: THTR 1 or THTR 3 or THTR 5 or THTR 30A. 3 hours lecture, 1 hour laboratory. Transfer: CSU; UC.

7 VOICE FOR THE ACTOR 3 UNITS

Development of the awareness of and access to the natural voice for use in theatrical production, and in life. Increase emotional availability and ability to communicate text clearly through breath control and articulation. 3 hours. Transfer: CSU; UC; CSU/GE.

8 AUDITION TECHNIQUE 3 UNITS

Work on monologues and showcase scenes, cold reading technique. Students with interest in pursuing acting beyond the community college setting will work on preparations to audition for theater, film and four-year schools. Students will be expected to have a headshot taken at their own expense. Prerequisite: THTR 1 (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

10 INTRODUCTION TO THEATER ARTS 3 UNITS

Focuses on the relationship of theater to various cultures throughout history, and on the contributions of significant individual artists. Introduces students to elements of the production process including playwriting, acting, directing, design, and criticism. Students will also survey different periods, styles and genres of theater through play reading, discussion, films, and viewing and critiquing live theater, including required attendance at theater productions. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC; C-ID: THTR 111, THTR 112.

11 STAGE TO FILM 3 UNITS

Major plays which subsequently have been made into films. Analysis of each playscript augmented by a viewing and analysis of the film adaptation. Major areas of concentration vary from semester to semester. 3 hours. Transfer: CSU; UC; CSU/GE; IGETC.

12 FILM AS ART AND COMMUNICATION 4 UNITS
 Introduction to film as art and communication. Analysis of films from various genres, with an emphasis on both technical aspects of filmmaking and story-telling. 4 hours. Transfer: CSU; UC; CSU/GE; IGETC.

16A INTRODUCTION TO DRAMATIC WRITING 3 UNITS
 Introduction to the basic concepts of dramatic writing, including playwriting, screenwriting, radio plays, and electronic media scripts. This course focus on character development, the qualities of believability and dialogue. Strongly Recommended: Eligibility for ENGL 1A. 3 hours. Transfer: CSU.

16B BASICS OF DRAMATIC WRITING 3 UNITS
 This is a continuation of THTR 16A, with further exploration of modern dramatic writing forms. The course will focus on the completion of longer projects, including the 10-minute play and short film. Emphasis will be on dramatic tension and story-telling. Prerequisite: THTR 16A Strongly Recommended: ENGL 1A (completed with a grade of "C" or higher) 3 hours. Transfer: CSU.

16C INTERMEDIATE DRAMATIC WRITING 3 UNITS
 This is a continuation of THTR 16B, designed for students who wish to further develop their existing skills in dramatic writing. The emphasis of this course will be on developing longer works, with special attention to rising action and alternatives to Realism. Prerequisite: THTR 16B (completed with a grade of "C" or higher). Strongly Recommended: ENGL 1A (completed with a grade of "C" or higher). 3 hours. Transfer: CSU.

16D ADVANCED DRAMATIC WRITING 3 UNITS
 This is a continuation of THTR 16C, designed for students who wish to further develop their existing skills in dramatic writing. The emphasis of this course will be on developing longer works, with special attention to rising action and alternatives to Realism. Prerequisite: THTR 16C (completed with a grade of "C" or higher). Strongly Recommended: ENGL 1A (completed with a grade of "C" or higher). 3 hours. Transfer: CSU.

21 INTRODUCTION TO DESIGN FOR THE THEATER 3 UNITS
 Students will be offered a survey of scenery, lighting, sound, costumes, makeup, properties, and special design needs, through demonstration, and laboratory experience. 3 hours lecture, 1 hour laboratory. Transfer: CSU; UC; C-ID: THTR 172.

22 INTRODUCTION TO DESIGN FOR THE THEATER: EMPHASIS IN COSTUME AND MAKEUP 3 UNITS
 Students will be offered a survey of scenery, lighting, sound, costumes, makeup, properties, theatrical equipment and construction techniques through demonstration, and laboratory experience. Information is applicable to all formal theatrical applications. THTR 22 makes a special emphasis on Costume and Makeup. 3 hours lecture, 1 hour laboratory. Transfer: CSU; UC.

30A INTRODUCTION TO EMERGING WORK 3 UNITS
 Development of new plays for staged readings and/or productions. This class will develop and perform plays for an audience, with an emphasis on the evolution of the dramatic texts. Special projects, such as specific textural challenges, may be included. 3 hours. Transfer: CSU; UC.



30B BASICS OF EMERGING WORK**3 UNITS**

This is a continuation of 30A, the development of new plays and/or other special projects for production and/or readings. This course emphasizes character study and scene breakdown. Prerequisite: THTR 30A (completed with a grade of "C" or higher). 3 hours. Transfer: CSU; UC.

30C EMERGING WORK: THE READING WORKSHOP**3 UNITS**

This is a continuation of Theater 30B, as students further their skills in the development of new dramatic material. This course emphasizes character development and story arc, culminating in the staged reading, the reading workshop. Prerequisite: THTR 30B (completed with a grade of "C" or higher). 3 hours. Transfer: CSU; UC.

30D EMERGING WORK: THE WORKSHOP PRODUCTION**3 UNITS**

This is the capstone course of the THTR 30 track, where students continue to hone their skills in the development of new work and/or other special projects for the stage. This course will emphasize an actual staged production near the end of the term, with instruction in student directing, stage management, elemental production values of lights, sound and costumes. Prerequisite: THTR 30C (completed with a grade of "C" or higher). 3 hours. Transfer: CSU; UC.

40 INTRODUCTION TO TECHNICAL THEATER**3 UNITS**

Introduction to technical production of theater; scenic design and construction, scenic painting, costume design, lighting design and organization for production; laboratory experience in preparing plays for public performance. 2 hours lecture, 4 hours laboratory. Transfer: CSU; UC; CSU/GE.

47A INTRODUCTION TO COLLEGE THEATER ACTING**3 UNITS**

This course provides instruction and supervised participation in theater rehearsal and performance in main season production or project. Enrollment is for duration of the production. Enrollment by audition only. 9 hours laboratory. Transfer: CSU; UC; C-ID 191 (in combination with THTR 47B).

47B COLLEGE THEATER ACTING: THE BASICS**3 UNITS**

This is a continuation of THTR 47A, as students further their acting skills in a college production. This course emphasizes character development, along with objectives, actions and obstacles. Prerequisite: THTR 47A (completed with a grade of "C" or higher). 9 hours laboratory. Transfer: CSU; UC; CID: 191 (in combination with THTR 47A.)

47C COLLEGE THEATER ACTING: INTERMEDIATE**3 UNITS**

This is a continuation of THTR 47B. for furthering a student's skill as an actor in a college production. Emphasis in this course will be on effective rehearsal techniques, generous responses, and ensemble building. Prerequisite: THTR 47B (completed with a grade of "C" or higher). 9 hours laboratory. Transfer: CSU; UC.

47D COLLEGE THEATER ACTING: ADVANCED**3 UNITS**

This is a continuation of THTR 47C, where students further develop their skills as actors in a college production. This course will emphasize the polish in performance, the evaluation of one's work and the development of a personal, creative process. Prerequisite: THTR 47C (completed with a grade of "C" or higher). 9 hours laboratory. Transfer: CSU. Transfer: CSU; UC.

48A COLLEGE THEATER TECHNICAL: INTRODUCTION**3 UNITS**

Participation in scheduled productions as crew members and/or constructing its technical elements. Development of skills in the various technical areas involved in the presentation of a theatrical production. 9 hours laboratory. Transfer: CSU; UC; CID: 192 (in combination with THTR 48B.)





48B COLLEGE THEATER TECHNICAL: BEGINNING 1-6 UNITS

Participation in scheduled productions as crew members and/or constructing its technical elements. Application of skills in the various technical areas involved in the presentation of a theatrical production learned in preceding course. Prerequisite: THTR 48A. 3-18 hours laboratory. Transfer: CSU; UC; C-ID: 192 (in combination with THTR 48A.)

48C COLLEGE THEATER TECHNICAL: INTERMEDIATE 1-6 UNITS

Participation in scheduled productions as crew members and/or constructing its technical elements. Application of skills in the various technical areas involved in the presentation of a theatrical production learned in preceding course. Prerequisite: THTR 48B. 3-18 hours laboratory. Transfer: CSU; UC.

48D COLLEGE THEATER TECHNICAL: ADVANCED 1-6 UNITS

Participation in scheduled productions as crew members and/or constructing its technical elements. Application of leadership skills in the various technical areas involved in the presentation of a theatrical production. Prerequisite: THTR 48C. 3-18 hours laboratory. Transfer: CSU; UC.

50A INTRODUCTION TO THEATER MANAGEMENT 1-6 UNITS

Introduction to the concepts involved in mounting a stage production, including those specific to various administrative tasks. This class will explore play selection, personnel, production meetings, organizational strategies, and budgeting, as well as publicity, promotions, and front-of-house duties, such as ushering, box office, and house management. 1 hour lecture, 3-18 hours laboratory. Transfer: CSU; UC.

50B THEATER MANAGEMENT: THE BASICS 1-6 UNITS

Continuation of THTR 50A, further developing skills in the management of a production. This course will emphasize the development of a marketing strategy for a specific project, as well as collaboration with other artists involved in the show. Also introduces budgeting and production timelines. Prerequisite: THTR 50A (completed with a grade of "C" or higher). 1 hour lecture, 3-18 hours laboratory. Transfer: CSU; UC.

50C THEATER MANAGEMENT: INTERMEDIATE 1-6 UNITS

Continuation of THTR 50B, further developing skills in the management of a production. This class will emphasize the design, fabrication and distribution of printed materials for all the shows, including posters, programs and other printed resources. Prerequisite: THTR 50B (completed with a grade of "C" or higher). 1 hour lecture, 3-18 hours laboratory. Transfer: CSU; UC.

50D THEATER MANAGEMENT: ADVANCED 1-6 UNITS

This is the capstone course in the THTR 50 track, further developing skills in the management of a production. This course emphasizes press releases, photographs, contacts with media sources, and ground work for increased visibility. It also includes student managers for the house and for the box office positions during the run of the shows. Prerequisite: THTR 50C (completed with a grade of "C" or higher). 1 hour lecture, 3-18 hours laboratory. Transfer: CSU; UC.

TUTORING (TUTR)

1A BEGINNING TUTORING THEORY AND PRACTICE .5 UNIT

Training for college tutors to acquire specific skills and techniques for tutoring in academic and vocational subject matter areas and basic skills. Required course for tutors participating in Chabot College Learning Connection tutoring programs. Corequisite: TUTR 2A or equivalent. .5 hour/week or 9 hours total. Transfer: CSU.

1B INTERMEDIATE TUTORING THEORY AND PRACTICE .5 UNIT

Intermediate training for college tutors to acquire specific skills and techniques for tutoring and leading study groups in academic and vocational subject matter areas and basic skills. Required course for tutors participating in Chabot College Learning Connection tutoring programs. Prerequisite: TUTR 1A (completed with a grade of "P" or higher). .5 hour/week or 9 hours total. Transfer: CSU.

1C INTERMEDIATE-ADVANCED TUTORING THEORY AND PRACTICE .5 UNIT

Intermediate-advanced training for college tutors to acquire specific skills and techniques for tutoring in academic and vocational subject matter areas and basic skills. Required course for tutors participating in Chabot College Learning Connection tutoring programs. Prerequisite: TUTR 1B (completed with a grade of "P" or higher). .5 hour/week or 9 hours total. Transfer: CSU.

1D ADVANCED TUTORING THEORY AND PRACTICE .5 UNIT

Advanced training for college tutors to acquire specific skills and techniques for tutoring in academic and vocational subject matter areas and basic skills. Required course for tutors participating in Chabot College Learning Connection tutoring programs. Prerequisite: TUTR 1C (completed with a grade of "P" or higher). .5 hour/week or 9 hours total. Transfer: CSU.

2A BEGINNING CONTENT-AREA TUTOR TRAINING .5 UNIT

Beginning training for college tutors to acquire skills and techniques for tutoring in specific content areas. Required course for tutors participating in Chabot College Learning Connection tutoring programs. .5 hour/week or 9 hours total. Transfer: CSU.

2B INTERMEDIATE CONTENT-AREA TUTOR TRAINING .5 UNIT

Intermediate training for college tutors to acquire skills and techniques for tutoring in specific content areas. Required course for tutors participating in Chabot College Learning Connection tutoring programs. Prerequisite: TUTR 2A (completed with a grade of "P" or higher). .5 hour/week or 9 hours total. Transfer: CSU.

2C INTERMEDIATE-ADVANCED CONTENT-AREA TUTOR TRAINING .5 UNIT

Intermediate-advanced training for college tutors to acquire skills and techniques for tutoring in specific content areas. Required course for tutors participating in Chabot College Learning Connection tutoring programs. Prerequisite: TUTR 2B. .5 hour/week or 9 hours total. Transfer: CSU.

2D ADVANCED CONTENT-AREA TUTOR TRAINING .5 UNIT

Advanced training for college tutors to acquire skills and techniques for tutoring in specific content areas. Required course for tutors participating in Chabot College Learning Connection tutoring programs. Prerequisite: TUTR 2C (completed with a grade of "P" or higher). .5 hour/week or 9 hours total. Transfer: CSU.

31A CHABOTLINK BEGINNING PEER ADVISOR TRAINING 1 UNIT

Beginning skills, techniques, leadership training, and information needed by peer advisors to help students gather information and explore practical strategies for academic success. College policies, campus resources, programs and services, student rights and responsibilities, general educational planning (including graduation and transfer requirements), major offerings, public speaking, listening strategies. Required for all peer advisors participating in the ChabotLink Program. 1 hour. Transfer: CSU.

31B CHABOTLINK INTERMEDIATE PEER ADVISOR TRAINING 1 UNIT

Intermediate skills, techniques, leadership training, and information needed by peer advisors to help students gather information and explore practical strategies for academic success. College policies, campus resources, programs and services, student rights and responsibilities, general educational planning (including graduation and transfer requirements), major offerings, public speaking, listening strategies. Required for all peer advisors participating in the ChabotLink Program. Prerequisite: TUTR 31A (completed with a grade of "P" or higher). 1 hour. Transfer: CSU.

31C CHABOTLINK INTERMEDIATE-ADVANCED PEER ADVISOR TRAINING 1 UNIT

Intermediate-advanced skills, techniques, leadership training, and information needed by peer advisors to help students gather information and explore practical strategies for academic success. College policies, campus resources, programs and services, student rights and responsibilities, general educational planning (including graduation and transfer requirements), major offerings, public speaking, listening strategies. Required for all peer advisors participating in the ChabotLink Program. Prerequisite: TUTR 31B (completed with a grade of "P" or higher). 1 hour. Transfer: CSU.

31D CHABOTLINK ADVANCED PEER ADVISOR TRAINING 1 UNIT

Advanced skills, techniques, leadership training, and information needed by peer advisors to help students gather information and explore practical strategies for academic success. College policies, campus resources, programs and services, student rights and responsibilities, general educational planning (including graduation and transfer requirements), major offerings, public speaking, listening strategies. Required for all peer advisors participating in the ChabotLink Program. Prerequisite: TUTR 31C (completed with a grade of "P" or higher). 1 hour. Transfer: CSU.

200 SUPERVISED TUTORING NON-CREDIT

(May be repeated 3 times)

Reading, mathematics, language arts, speaking, decision making, and problem-solving skills necessary for academic and technical training success. Self-paced, one-on-one and small group instruction tailored to students' individual needs. Variable hours laboratory.





WELDING TECHNOLOGY (WELD)

DEGREE:

AS—WELDING TECHNOLOGY

CERTIFICATE OF PROFICIENCY:

WELDING

INSPECTION AND PIPE WELDING

WELDING TECHNOLOGY

ASSOCIATE IN SCIENCE DEGREE

The program prepares students for employment in the welding trade and intensive preparation for welder certification. Student will be able to gas and arc weld in all positions as well as use gas and arc cutting equipment. Upon completion of the A.S. Degree in welding, the student will be employable in the trades or will be able to transfer to a state university for study in an industrial-related degree program.

PROGRAM-LEVEL OUTCOMES

1. Demonstrate the proficiency needed to perform; manufacturing, fabrication, maintenance and construction tasks to be in compliance with the industrial norms, codes and standards. They should be able to apply their skills and knowledge in a professional manner under minimum to no supervision.
2. Pass the American Welding Society (A.W.S) tests in the appropriate areas of study.

YEAR ONE		UNITS
WELD 63	Welding Layout & Fitting	2
WELD 64A	Beginning Arc, Flux-Core Welding and] Blueprint Reading	3
WELD 65A	Beginning TIG, MIG, and Blueprint Reading	3
WELD 64B	Advanced Arc, Flux-Core Welding and Blueprint Reading	3
WELD 65B	Advanced TIG, MIG, and Blueprint Reading	3
WELD 67A	Welding Skills Laboratory	2
WELD 67B	Advanced Welding Skills Laboratory	2

YEAR TWO		UNITS
WELD 69A *	Fabrication and Installing Piping Systems	3
WELD 66 *	Welding Inspection and Testing	2
WELD 69B *	Advanced Pipe Welding	3

*Offered alternating years.

General Education Units for A.S. Degree

For specific A.S. General Education courses refer to catalog section on A.S. Graduation Requirements.

REQUIRED MAJOR SPECIFIC G.E. REQUIREMENT.

Complete a minimum of 3 units from the following.	Units
INDT 74 Measurements and Calculations	3

The above listing is a suggested sequence only Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

TOTAL UNITS **26**

WELDING

CERTIFICATE OF PROFICIENCY

This program is recommended for students preparing for entry-level welding position.

PROGRAM-LEVEL OUTCOMES

1. Demonstrate the qualifications needed to gain interim welding positions required by the; manufacturing, fabrication, maintenance and construction industrial activities. They should be able to apply their skills and knowledge in a professional manner under supervision.
2. Pass the American Welding Society (A.W.S) tests in the appropriate areas of study.

CORE COURSES	UNITS
INDT 74 Measurements and Calculations	3
WELD 63 Welding Layout & Fitting	2
WELD 64A Beginning Arc, Flux-Core Welding and Blueprint Reading	3
WELD 65A Beginning TIG, MIG, and Blueprint Reading	3
WELD 67A Welding Skills Laboratory	2
WELD 70 Introduction to Welding	2

The above list is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where prerequisite applies.

TOTAL UNITS **15**

INSPECTION AND PIPE WELDING

CERTIFICATE OF PROFICIENCY

PROGRAM-LEVEL OUTCOMES

1. Demonstrate proficiency required form advanced; manufacturing, fabrication, and maintenance welding tasks compatible with the industrial norms for higher skilled workforce. They should be able to either skills and knowledge professional manner under minimum to no supervision.
2. Pass the American Welding Society (A.W.S.) test and the appropriate areas of study.

CORE COURSES	UNITS
WELD 64B Advanced Arc, Flux-Core Welding and Blueprint Reading	3
WELD 65B Advanced TIG, MIG, and Blueprint Reading	3
WELD 66 Welding Inspection and Testing	2
WELD 67B Advanced Welding Skills Laboratory	2
WELD 69A Fabrication and Installing Piping Systems	3
WELD 69B Advanced Pipe Welding	3

The above list is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where prerequisite applies.



The Welding Certificate of Proficiency and the Inspection and Pipe Welding Certificate of Proficiency, combined, satisfy welding major requirements for the Associate in Science Degree.

TOTAL UNITS **16**

WELDING TECHNOLOGY (WELD)

63 WELDING LAYOUT AND FITTING **2 UNITS**

Theoretical and practical applications of welding blueprints on welded assemblies and subassemblies. Welding power source identification and classification, welding processes identification and selection, assessment of welding joint discontinuities and defects identified by the AWS standards and codes, techniques of stress and distortion control such as proper use of jigs, fixtures and holding devices, the use of welding sequences techniques to control welding distortion and the implementation of the correct methods of straightening and dimension restoration of finished products. Laboratory includes the use of the following welding processes: SMAW, GMAW, GTAW, and FCAW and plasma and fuel cutting practice. Strongly recommended: Welding Technology 64A, Welding Technology 65A and Industrial Technology 74. 1 hour lecture, 3 hours laboratory. Transfer: CSU.

64A BEGINNING ARC, FLUX-CORE WELDING, AND BLUEPRINT READING **3 UNITS**

Theory and practical application of: Shielded Metal Arc Welding (SMAW) and Flux-Core Arc Welding (FCAW) in 1G, 2G, 1F, and 2F positions, plasma, carbon arc and flame cutting, American Welding Society (AWS) nomenclature and codes, welding metallurgical transformations, welding discontinuities and defects, welding electrodes and wire selection, OSHA hazardous materials regulation, general shop equipment usage and maintenance, shop safety, and blueprint reading (as applied in manufacturing industry). Strongly recommended: Welding Technology 70. 1 hour lecture, 6 hours laboratory. Transfer: CSU.

64B ADVANCED ARC, FLUX-CORE WELDING AND BLUEPRINT READING **3 UNITS**

Advanced theory and practical application of: Shielded Metal Arc Welding (SMAW) and Flux-Core Arc Welding (FCAW) in 3G, 4G, 3F, and 4F positions, plasma, carbon arc and flame cutting, American Welding Society (AWS) nomenclature and codes, welding metallurgical transformations, welding discontinuities and defects, welding electrodes and wire selection, hazardous materials regulation, general shop equipment usage, shop safety, and blueprint reading (as applied in manufacturing industry). Strongly recommended: Welding Technology 64A or Welding Technology 70. 1 hour lecture, 6 hours laboratory. Transfer: CSU.

65A BEGINNING TIG, MIG, AND BLUEPRINT READING **3 UNITS**

Theory and practical application of ferrous and non-ferrous metals and their alloys using GTAW (Gas Tungsten Arc Welding) and GMAW (Gas Metal Arc Welding) processes, oxyacetylene brazing, flame and plasma cutting skill development, AWS (American Welding Society) codes and standards, supplies selection, introduction to blueprint reading, proper and safe use of welding equipment and hazardous material regulations. Strongly recommended: Welding Technology 70. 1 hour lecture, 6 hours laboratory. Transfer: CSU.

65B ADVANCED TIG, MIG AND BLUEPRINT READING **3 UNITS**

Advanced theory and skill development of GTAW and GMAW processes with applications including ferrous and non-ferrous metals and their alloys in the both vertical and overhead positions according to AWS codes and standards, advanced blueprint reading and fitting, oxyacetylene brazing, flame and plasma cutting, electrodes and wire selection, advanced blueprint reading and practical interpretation of welding symbols, proper and safe use of shop and welding equipment, hazardous material regulations. Strongly recommended: Welding Technology 65A and Welding Technology 70. 1 hour lecture, 6 hours laboratory. Transfer: CSU.

66 WELDING INSPECTION AND TESTING **2 UNITS**

Theory and practical application of inspection testing using destructive and non-destructive methods (dye penetration method, magnetic particle, radiographic, ultrasonic, and metallographic inspection), AWS (American Welding Society) welding codes and specification, analysis of joint configuration, wire and electrodes selections, tensile strength, bend and hardness testing. Strongly recommended: Welding Technology 65B or Industrial Technology 74. 1 hour lecture, 3 hours laboratory. Transfer: CSU.

67A WELDING SKILLS LABORATORY **2 UNITS**

Development and improvement of practical welding skills using SMAW, FCAW, MIG, GMAW, and GTAW processes. Preparation for welding solidification in 1G, 2G 1F and 2F positions. Strongly recommended: Welding Technology 64A. 6 hours laboratory.

67B ADVANCED WELDING SKILLS LABORATORY **2 UNITS**

Advanced development and improvement of practical welding skills using SMAW, FCAW, GMAW and GTAW in the 1G, 2G, 3G, 4G, 1F, 2F, 3F and 4F positions. Strongly recommended: Welding Technology 64B and Welding Technology 65B or equivalent. 6 hours laboratory.

68 CERTIFICATION PREPARATION **.5-2 UNITS**

Welding process preparation for certification exams including the theory of American Welding Society D1.1, American Society of Mechanical Engineers Section IX, American Petroleum Institute 1104, includes laboratory practice in skills needed to take these exams. 1.5 to 6 hours laboratory.

69A FABRICATION AND INSTALLING PIPING SYSTEMS 3 UNITS

Theory and practical application of pipe joint preparation and design, API (American Petroleum Institute) and AWS (American Welding Society) welding codes specification for pipe and pipe fittings, analysis of joint configuration, plasma and flame cutting of pipes, wire and electrodes selections, pipe welding blue print and welding symbols, SMAW, GMAW, and GTAW of pipe joints, non-destructive and destructive test and qualitative concepts of evaluation. Prerequisite: Welding Technology 64B or equivalent. 1 hour lecture, 6 hours laboratory.

69B ADVANCED PIPE WELDING 3 UNITS

Advanced theory and practical applications of pipe joint preparation and design, API (American Petroleum Institute) and AWS (American Welding Society) welding codes specifications for pipe and pipe fittings, geometric curve design for branched joint of piping systems, wire and electrodes selections, advanced welding blue print and pipe welding symbols, SMAW, GMAW, and GTAW of pipe joints, metallurgical transformation of weld Heat Affected Area (HAA), welding discontinuities and defects, destructive and non-destructive testing, and methods of inspection and testing. Prerequisite: Welding Technology 69A or equivalent. 1 hour lecture, 6 hours laboratory.



70 INTRODUCTION TO WELDING 2 UNITS

Welding industry fundamentals including introduction to SMAW, GMAW, GTAW, FCAW processes, oxyacetylene and braze welding, plasma and fuel gas cutting, general shop equipment usage, welding electricity fundamentals, shop safety, identification of welding consumables, hazardous materials regulation, introduction to blueprint reading as applied in manufacturing industry. 1 hour lecture, 3 hours laboratory. Transfer: CSU.

71 WELDING FOR ARTISTS 2 UNITS

Welding essentials and conventional shop instruction and skills that artistically disposed individuals need to attain in order to proficiently perform in the artistic creation process. Provides instruction on types of metals (aluminum, iron, steel, cast iron, bronze, stainless steel, etc.), mechanical fastenings, cutting and permanent joining together of metals and alloys through welding processes such as; SMAW, GMAW, GTAW, FCAW, oxyacetylene and braze welding, plasma and fuel gas cutting, general shop equipment usage, welding electricity fundamentals, shop safety, welding consumable identification, and hazardous materials regulation. 1 hour lecture, 3 hours laboratory. Transfer: CSU

WORLD LANGUAGES (WORL)

1L WORLD LANGUAGES LAB .5 - 1 UNIT

World language grammar, pronunciation, conversation. Exploration of cultural components related to the target language. Corequisite: concurrent enrollment in a World Language course: 1A, 1B, 2A, or 2B. 1.5 -3 hours laboratory.

WORK EXPERIENCE◊ (WEXP)

95 WORK EXPERIENCE◊ 1-3 UNITS

College supervised on-the-job training. Paid or volunteer work experience, including an internship, in an occupation related to student's major or classes at Chabot. Cooperative effort between student, supervisor, and instructor to accomplish new work objective and broaden experiences for each semester enrolled. Corequisite: Work Experience 96. 5-15 hours of employment per week. Transfer: CSU. ◊ Refer to page page 21 for program requirements.

96 WORK EXPERIENCE SEMINAR◊ 1 UNIT

Provides the focal point for the coordination of the student's curriculum with college supervised employment/volunteering in the student's major field. Emphasis on building strong working relationships with supervisors, subordinates, co-workers. Issues pertaining to the modern workplace. Corequisite: Work Experience 95. 1 hour. Transfer: CSU. ◊ Refer to page page 21 for program requirements.



**ADMINISTRATION,
FACULTY AND
CLASSIFIED STAFF**



ACADEMIC ADMINISTRATORS

Jannett N. Jackson, Ed.D., Chancellor
 B.A., M.Ed., California State University, Fresno;
 University of Texas, Austin

NON-ACADEMIC ADMINISTRATORS

Agustin, Kennedy P.	Manager, Network Systems & Services
Benetti, Lori A.	Payroll Manager
Betts, David A.	Director, Employee & Labor Relations
Blevins, Walter L.	Director, Maintenance & Operations
Campbell, Doralene	Assistant Director, Business Services
Dozier, Julia A.	District Executive Director, Economic Development & Contract Education
Elofson, Cari M.	Assist Director, OSHA Training Center
Esteller, Karen B.	District Budget Officer
Fisher, Mariann L.	Assistant Director, Economic Development & Contract Education
Fong, Wyman M.	Vice Chancellor, Human Resources
Holtzclaw, Sarah J.	Program Manager, Tri-Valley One Stop Career Center
Horner, John D.	Director, FAC & Bond Program
Lamica, Victoria L.	Contracts Manager, Facility Planning
Legaspi, Lorenzo S.	Vice Chancellor, Business Services
Methe, Jeannine P.	Chief Technology Officer
Nunez, Guisselle V.	Director of Public Relations, Marketing and Government Relations
Yesnosky, Barbara A.	Director, Business Services



ACADEMIC ADMINISTRATORS

Susan Sperling, Ph.D., President
 1987; A.A., Merritt College
 B.A., Ph.D., University of California, Berkeley

Corcoran, Marcia L., 2005; B.A., University of California, Santa Barbara; M.A., Stanford University; Ph.D., University of California, Berkeley; Dean, Language Arts

Dale, ValJeán, 1998; B.A., M.A., John F. Kennedy University; L.M.F.T., L.P.C.C. Clinical and Professional Psychology; Dean, Counseling

Kritscher, Matthew D., 2008; B.S., M.A., California Polytechnic State University; Ed.D., San Francisco State University; Vice President, Student Services

Kunkel, Deonne M., 2010; B.S., Brigham Young University; M.A., Mills College; Interim Dean, Arts, Humanities and Social Sciences

Lima, Kristin L., 2015; A.A., College of Sequoias; B.A., Monterey Institute of International Studies; M.B.A., Monterey Institute of International Studies; Ed. D., Brandman University; Dean, Applied Technology & Business

Mattern, Amy, 2016; B.A.; University of California, Davis, M.A., California State University, Fullerton; Dean, Academic Pathways & Student Success

Morrison, Ellen M., 2014; A.A., Cañada College; B.A., University of California, Los Angeles; M.A., Ph.D., University of Chicago; Assistant Director, Mentor Program

Olivenbaum, Linda B., 2014; B.A., University of Pennsylvania; M.A., Temple University; Director, Mentor Program

Perlas, Charlene A., 2016; B.A., California State University, Fresno; M.S., California State University, Sacramento; M.P.A., California State University, Hayward; Ph. D., Capella University; Dean, Science and Math

Thompson, Stacy L., 2014; B.A., Lewis and Clark College; M.A., Ed.D., Mills College; Vice President, Academic Services

Wagoner, Dale J., 1989; A.A., Chabot College; B.S., California State University, Chico; M.A., University of California, Berkeley; Dean, Physical Education & Athletics

Walter, Carla A., 2014; A.S., Riverside Community College; B.A., University of California, Riverside; M.B.A., California State University, San Bernardino; Ph.D., University of California, Riverside; Vice President, Administrative Services

Wilson, Jeanne D., 2005; B.A., The American College; M.S., California State University, Hayward; Ed.D., Mills College; Dean, Special Programs and Services



NON-ACADEMIC ADMINISTRATORS

Cormier, Vanessa	Manager, Children's Center
Craig, Yvonne W.	Director of Grants
Lino, Paulette Y.	Director, Admissions & Records
Linzmeyer, Kathryn A.	Director, Financial Aid
Ochoa, Maria	Executive Director, Office of Development and the Foundation
Paguio, Arnold V.	Director Of Student Life
Soto, Nancy A.	Adult Education and Non-Credit Program Manager

FACULTY OFFICE HOURS

Chabot College is noted for the close relationship of the faculty with students. The educational benefits of the student being able to know and talk personally with his or her is recognized. Each member of the full-time faculty schedules office hours each week for this purpose. This schedule is posted outside the 's office. Students are encouraged to take advantage of this opportunity, the benefits of which include:

- Assistance in understanding and achieving specific course expectancies.
- The development of concepts and understandings beyond the course expectancies.
- Insights into career opportunities within the 's area of expertise.
- Encouragement, assistance, and direction in meeting both educational and personal needs.
- A continuing association with a member of the academic community.





FACULTY

FACULTY SENATE – LAURIE DOCKTER, PRESIDENT

Abdoun, Mona I. Sociology
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 Absher, Michael S. Machine Tool Technology
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 Alexander, Nicolas V. Physical Science
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 Anderson, Mark P. English
 Arnold, Carolyn L. Institutional Research
 Ashraf, Sadaf Counselor
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 Aye, Dennis P. Physical Education;
 Head Basketball Coach
 Baiardi, Elaine Nursing, Psychology
 Barnezet Parrish, Caren M. French
 Batchelor, Egl T. Mathematics
 Baum, James G. Auto Technology
 Bhangal, Jaswinder K. Business
 Blair, Angela K. English as a Second Language
 Braganza, Agnello F. Biology
 Buchwald, Norman I. Librarian
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 Calcagno, Daniel W. Physical Education;
 Head Football Coach
 Caldwell, Debra I. Biology
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 Cheung, Nancy L. Dental Hygiene
 Chun, Desmond K. Computer Science
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 Dave, Timothy A. Physics, Astronomy
 Davis, Christina Communication Studies
 Davis, Matthew A. Mathematics
 De Wit, Thomas W. English Composition
 Deetz, Aaron M. Photography
 Dockter, Laurie J. Chemistry
 Drouin, Jeffrey W. Athletic Advisor, Physical Education
 Enriquez, Carlos E. Biology
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 Fischer, Kay Ethnic Studies
 Fon, Frances C. Counselor, Transfer Center
 Foth, Homeira English Composition

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 English
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 Biology
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CLASSIFIED STAFF

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Bookstore Shipping/Receiving Specialist

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Security Officer

Counselor Assistant II

Financial Aid Advisor II

Instructional Assistant

Stage Technician

Senior Administrative Assistant

Accounting Technician

Library Services Specialist

Student Employment Coordinator

Senior Administrative Assistant

Counselor Assistant II

Webmaster

Senior Administrative Assistant

Bookstore Cashier

Security Officer

Counselor Assistant II

Student Records Evaluator

Instructional Assistant

Library Technician

Intercollegiate Athletics Technician

Instructional Assistant

Security Officer

Counselor Assistant II

Laboratory Technician

Early Childhood Specialist

Theatre Manager

Educational Talent Search, Program Director

Instructional Assistant

Counselor Assistant II

Security Officer

Counselor Assistant II

Educational Talent Search,
Program Director (Sub)

Administrative Assistant

Senior Administrative Assistant

Instructional Assistant

Instructional Assistant

Admissions Specialist

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Administrative Assistant

Security Officer

Instructional Assistant

Senior Administrative Assistant

Curriculum & Scheduling Specialist

Senior Administrative Assistant

Senior Administrative Assistant

Admissions & Records Asst II

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Executive Assistant to the College President



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 Reprographics Systems Technician
 Stage Technician
 Financial Aid Advisor II
 Counselor Assistant II
 Senior Administrative Assistant
 Broadcasting Cablecasting Technician
 Instructional Network System Supervisor
 Senior Laboratory Technician
 Graphic Designer
 Counselor Assistant I
 Bookstore Textbook Purchase Assistant
 Counselor Assistant II
 Early Childhood Specialist
 Bookstore General Merchandise Buyer
 Security Officer
 Admissions & Records Asst II
 Curriculum & Scheduling Specialist
 Accounting Technician
 Library Technician
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 Bookstore Accounting Specialist
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Custodian
 Electrician
 Custodian
 Vehicle & Equipment Mechanic
 Custodian
 Maintenance Supervisor
 Lead Maintenance Worker
 Custodian
 Custodian
 Maintenance Technician
 Custodian
 Grounds Worker I
 Senior Custodial Supervisor
 Custodian
 Custodian
 Custodian
 HVAC Maintenance Engineer
 HVAC Maintenance Engineer
 Lead Custodian
 Custodian
 HVAC Maintenance Engineer
 Lead Custodian
 Maintenance Worker
 Grounds Worker I
 Maintenance Worker
 Custodian
 Lead Custodian
 Grounds Supervisor
 Lead Grounds Worker
 Custodial Supervisor
 Custodian
 Custodian
 Custodian
 Vehicle & Equipment Mechanic
 Custodian
 Custodian
 Custodian
 Maintenance Worker
 Grounds Worker II
 Custodian
 Custodial Supervisor

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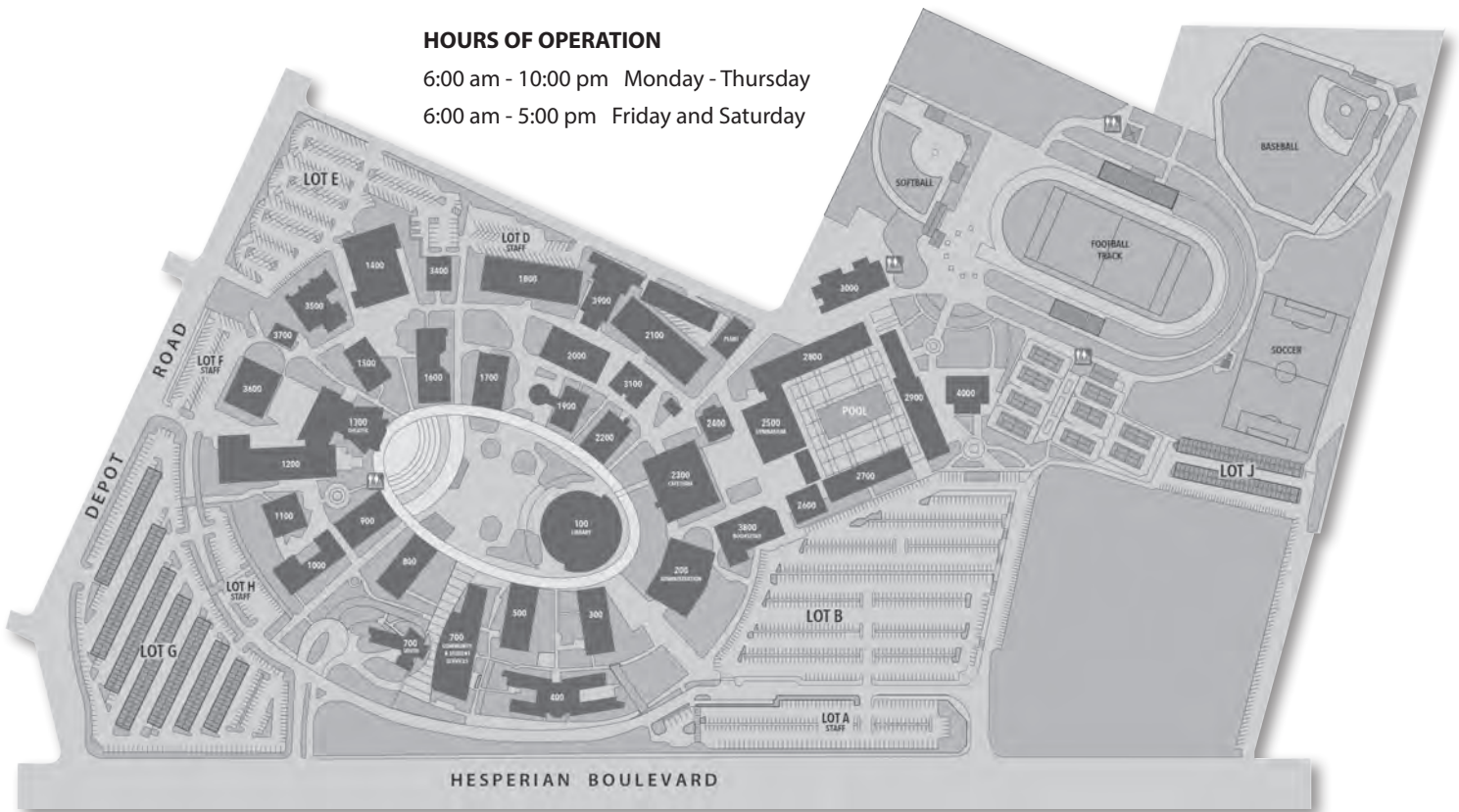
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Waiver of Program Requirement	49
Welcome Center	55
Welding Technology	286
Inspection and Pipe Welding	286
Welding	286
Withdrawal	49
Withdrawing From Classes	49
Extenuating Circumstances	50
Military Withdrawal	50
Total Withdrawal	50
Work Experience	288
World Languages	11, 288
Writing	161



HOURS OF OPERATION

6:00 am - 10:00 pm Monday - Thursday
 6:00 am - 5:00 pm Friday and Saturday



Building #	Designation/Classrooms/Departments
100	Health Center; Library; Media Services; WRAC Center
200	Administration; Campus Safety and Security
300	Language Arts Classrooms
400	Instructional Office Building (IOB) (Business, Language Arts, and Social Sciences Faculty Offices)
500	Social Sciences Classrooms
700	Community Student Services Center (Admissions and Records; Assessment; Counseling; Student Services; Community Education; Financial Aid; Foundation; Grantwriting; Off-Campus Programs)
800	Classrooms shared by various divisions
900	Humanities Classrooms
1000	School of the Arts Classrooms
1100	Humanities Faculty Offices
1200	Music Skills Center; Little Theater
1300	Auditorium
1400	Technology Center
1500	Applied Technology Faculty Offices; Classrooms
1600	Applied Technology and Business Classrooms
1700	Mathematics; Physics (under construction)
1800	Science and Mathematics Classrooms
1900	Science Lecture Halls; Planetarium

Building #	Designation/Classrooms/Departments
2000	Science and Mathematics Faculty Offices
2100	Biological Sciences Classrooms
2200	Health Sciences/Dental Health
2300	Cafeteria; the Learning Connection; Peer Academic Tutoring Help (PATH); Student Life
2400	Disabled Students Resource Center
2500	Gymnasium
2600	Physical Education Faculty Offices; Classrooms
2700	Women's Shower and Locker Rooms; Classrooms
2800	Men's Shower and Locker Rooms
2900	Physical Education Classrooms
3000	Maintenance Building and Warehouse
3100	Emergency Medical Services Classrooms
3300	Campus Safety and Security
3400	BMW Automotive Facility
3500	Children's Center
3700	Children's Center
3800	Bookstore
3900	Chemistry/Computer Science Classrooms
4000	Physical Education Faculty Offices

- Identification and adherence to college policies and procedures required.
- Penalties for violation include punishment as prescribed in penal code 627.8.
- Not less than \$20 or more than \$500 for first offense. Repeated offenses may result in severe penalty as prescribed in penal code section 627.8



Chabot College is a learning-centered institution with a culture of thoughtfulness and academic excellence, committed to creating a vibrant community of life-long learners.

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A photograph of the Chabot College entrance. The main focus is a large, curved wooden archway supported by several wooden pillars. The words 'CHABOT COLLEGE' are written in large, white, sans-serif capital letters across the top of the arch. The background shows a building with vertical wooden slats and a person walking through the entrance.