

CHABOT COLLEGE  
CATALOG ADDENDUM  
2011-2012



25555 Hesperian Boulevard  
Hayward, CA 94545  
Telephone: (510) 723-6600  
Fax: (510) 782-9315  
[www.chabotcollege.edu](http://www.chabotcollege.edu)

## **CATALOG UPDATE**

The current Chabot College Catalog covers the period 2010-2012. Chabot College will not produce a new catalog this year but, rather, this addendum which reflects all changes or corrections through Spring, 2011. It is anticipated that a fully revised college catalog will be produced in Spring 2013.

This catalog supplement should be used by students and staff along with the existing 2010-2012 catalog. Students are strongly encouraged to seek advice from the Counseling Division. Additional information and publications will be made available to students throughout the year as appropriate.

# CHABOT COLLEGE CATALOG ADDENDUM 2009-2010

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## DIRECTORY

	TELEPHONE NUMBER
President . . . . .	723-6640
Vice President, Academic Services . . . . .	723-6627
Applied Technology & Business . . . . .	723-6653
Health Sciences, P.E. & Athletics . . . . .	723-7484
Language Arts . . . . .	723-6804
Library . . . . .	723-7513
School of the Arts . . . . .	723-6829
Science & Mathematics . . . . .	723-6898
Social Sciences . . . . .	723-6670
Vice President, Administrative Services . . . . .	723-6994
Bookstore . . . . .	723-6926
Cafeteria . . . . .	723-6651
Campus Safety . . . . .	723-6923
Vice President, Student Services . . . . .	723-6743
Admissions and Records . . . . .	723-6700
Children's Center . . . . .	723-6684
Counseling . . . . .	723-6716
Disabled Student Resource Center . . . . .	723-6725
Financial Aid . . . . .	723-6748
Special Programs and Services . . . . .	723-6917
Student Life . . . . .	723-6914

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# ACADEMIC CALENDAR 2011-2012

## FALL SEMESTER 2011

Orientation Week  
August 10, 11, 12 . . . . . New Faculty Orientation  
August 15 . . . . . Convocation Day  
August 16 . . . . . College Day  
August 17 . . . . . INSTRUCTION BEGINS  
August 20 . . . . . Instruction Begins Saturday Classes  
September 2 . . . . . Last day to Add or Drop  
(NGR–No Grade of Record) in person  
September 5 . . . . . Last day to Add or Drop  
(NGR–No Grade of Record) online  
September 3-5 . . . . . Holiday Weekend – Labor Day  
Campus Closed  
September 6 . . . . . Census for Full-Term Classes  
September 16 . . . . . Deadline to apply for Pass/No Pass  
(Full-Term Classes)  
November 4 . . . . . Last day to drop with a “W” (Withdrawl)  
(in person or online)  
November 11 . . . . . Holiday – Veterans Day  
November 12 . . . . . Saturday classes meet as scheduled  
November 23-26 . . . . . Holiday – Thanksgiving  
Campus Closed – No Saturday classes  
December 10 . . . . . Last Day of Instruction, Saturday Classes  
December 13 . . . . . Last Day of Instruction, Full-Term Classes  
December 13-20 . . . . . Final Examination Period  
December 17 . . . . . Saturday Finals  
December 21-January 16 . . . . . Semester Recess  
January 6 . . . . . Deadline for Instructors to File Grades

## SPRING SEMESTER 2012

January 16 . . . . . Holiday – Martin Luther King, Jr. Day  
Campus Closed  
January 17 . . . . . INSTRUCTION BEGINS  
January 21 . . . . . Instruction Begins Saturday Classes  
February 3 . . . . . Last day to Add or Drop  
(NGR–No Grade of Record) in person  
February 5 . . . . . Last day to Add or Drop  
(NGR–No Grade of Record) online  
February 6 . . . . . CENSUS DAY  
TBA . . . . . Mandatory Flex Day (Campus Closed  
for daytime courses starting before 4:00 PM only)  
February 16 . . . . . Deadline to apply for Pass/No Pass  
February 17, 18, 20 . . . . . Holiday – Presidents' Weekend  
Campus Closed  
April 4 . . . . . Last day to drop with a “W” (Withdrawl)  
(in person)  
April 6 . . . . . Last day to drop with a “W” (Withdrawl)  
(online)  
April 7 . . . . . Saturday classes meet  
April 9-14 . . . . . Spring Break (No Instruction)  
April 30 . . . . . Last day to to apply for Graduation  
end of Spring Semester 2010  
May 12 . . . . . Last Day of Instruction, Saturday Classes  
May 18 . . . . . LAST DAY OF INSTRUCTION  
May 19 . . . . . Saturday Finals  
May 19-25 . . . . . Final Examination Period  
May 26 . . . . . Commencement  
May 28 . . . . . Holiday – Memorial Day  
Campus Closed  
June 1 . . . . . Deadline for Instructors to File Grades

## CHANGES TO PAGES 14-15

### (REVISED FEES)

#### FEES

*Enrollment Fee:* \$36.00 per unit (subject to change).

*Nonresident Tuition:* Out-of-state students are required to pay \$215.00 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 \$215.00 per semester unit in addition to the enrollment fee and basic fees.

*Mailing Fee:* Students may pay a \$3.00 optional mailing charge each semester. This money is used for mailing costs for the registration card, grade report and registration appointment cards.

*Student Body Fee:* This is an optional \$5.00 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—4-wheel vehicle; \$15.00 per semester—motorcycle, and \$2.00 for daily parking.

*Student Health Fee:* Mandatory health service fee of \$14 per semester and \$9 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 . . . . .	\$10.00 (includes one copy of transcript)
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](http://www.chabotcollege.edu) or by contacting the Office of Admissions and Records.

## CHANGES TO PAGES 18 DEGREE AND CERTIFICATE PROGRAMS

### (REVISE)

Program	Associate in Arts		Associate in Science	Certificate of Achievement	Certificate of Proficiency	Certificate
	AA	AA-T				
Communication Studies		X				
Sociology		X				
Small Business Management				X		

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## GRADUATION REQUIREMENTS

### CHANGES TO PAGES 19-21

#### I. ASSOCIATE IN ARTS DEGREE (A.A.)

##### A. LANGUAGE AND RATIONALITY

###### 3. Communication and Analytical Thinking

**(DELETE)**

Mathematics 35

##### C. HUMANITIES

**(ADD)**

Communication Studies 6

##### D. SOCIAL AND BEHAVIORAL SCIENCES

**(ADD)**

Early Childhood Development 56

Geography 10

History 3, 4

**(DELETE)**

Early Childhood Development 51

**(Revise)**

##### MATHEMATICS PROFICIENCY:

**(DELETE)**

Mathematics 35

#### I. ASSOCIATE IN SCIENCE DEGREE (A.S.)

##### A. LANGUAGE AND RATIONALITY

###### 3. Communication and Analytical Thinking

**(DELETE)**

Mathematics 35

##### C. HUMANITIES

**(ADD)**

Communication Studies 6

##### D. SOCIAL AND BEHAVIORAL SCIENCES

**(ADD)**

Early Childhood Development 56

Geography 10

History 3, 4

**(DELETE)**

Early Childhood Development 51

**(Revise)**

##### MATHEMATICS PROFICIENCY:

**(DELETE)**

Mathematics 35

## CHANGES TO PAGE 23

# CALIFORNIA STATE UNIVERSITY (CSU)

[www.csumentor.edu](http://www.csumentor.edu)

### AA-T AND AS-T DEGREE REQUIREMENTS

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 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). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

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. (While a minimum of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.)
- Completion of a minimum of 18 semester units with a “C” or higher (or a “P” if the course is taken on a Pass/No Pass basis) in all courses required as a part of an AA-T or AS-T major as identified by the college catalog. (Title 5 §55063)
- Certified completion of the California State University General Education-Breadth pattern (CSU GE Breadth) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern general education requirements. (See pages 25-26 in the catalog for more information.)

## ASSOCIATE IN ARTS FOR TRANSFER DEGREES

- Completion of the requirements for an associate degree for transfer (see the requirements listed above).
- 2. Completion of a minimum of eighteen (18) units with at least a “C” or higher in each course in one of the college’s associate degree for transfer programs. (Refer to the particular discipline for course descriptions and requirements for each major.)

## ASSOCIATE IN SCIENCE FOR TRANSFER DEGREES

- Completion of the requirements for an associate degree for transfer (see the requirements listed above).
- 2. Completion of a minimum of eighteen (18) units with at least a “C” or higher in each course in one of the college’s associate degree for transfer programs. (Refer to the particular discipline for course descriptions and requirements for each major.)

## CHABOT COLLEGE TRANSFER DEGREES:

AA-T–Communication Studies (*see page 7*)

AA-T–Sociology (*see page 22*)

### CHANGES TO PAGE 49

#### QUEST

Due to budget cuts Chabot College no longer offers Quest classes.

### CHANGES TO PAGE 71

## ANTHROPOLOGY (ANTH)

#### (REVISED TRANSFER INFORMATION)

**7 INTRODUCTION TO GLOBALIZATION: AN ANTHROPOLOGICAL PERSPECTIVE** 3 UNITS

Transfer: CSU; CSU/GE: D1; IGETC: Area 4A; AA/AS.

### CHANGES TO PAGES 74-79

## ARCHITECTURE (ARCH)

#### (REVISED PREREQUISITE)

**33 3-D MODELING** 3 UNITS

(*May be repeated 3 times*)

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. Prerequisite: Architecture 68 (*completed with a grade of “C” or higher*). 2 hours lecture, 4 hours studio. Transfer: CSU.

## ART (ART)

#### (REVISED CATALOG DESCRIPTION)

**12D OIL/ACRYLIC PAINTING – ADVANCED II** 3 UNITS

Continued development of advanced projects in oil or acrylic painting with emphasis on individual creative work and development of personal ideas and style. Prerequisite: Art 12C (*completed with a grade of “C” or higher*). 2 hours lecture, 4 hours studio. Transfer: CSU; UC.

## ART HISTORY (ARTH)

#### (REVISED TRANSFER INFORMATION)

**7 MULTICULTURAL HISTORY OF AMERICAN ART** 3 UNITS

Transfer: CSU; CSU/GE: C1; IGETC: Area 3A; AA/AS; AC.

#### (REVISED TITLE, CATALOG DESCRIPTION)

**50 INTRODUCTION TO MUSEUM AND GALLERY TECHNIQUES** 3 UNITS

(*May be repeated 3 times*)

Learn the display of visual art within a museum/gallery space. Meet artists from the Bay Area and beyond, learn the meaning behind their artwork, 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. Transfer: CSU; CSU/GE: C1; AA/AS.

#### (REVISED TITLE)

**51 INTRODUCTION TO MUSEUM STUDIES** 4½ UNITS

(*May be repeated 3 times*)

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. (Formerly ART 6; may not receive credit if ART 6 has been completed.) 3 hours lecture, 5 hours laboratory. Transfer: CSU; CSU/GE: C1; AA/AS.

### CHANGES TO PAGES 80-84

## AUTOMOTIVE TECHNOLOGY (ATEC)

## AUTOMOTIVE TECHNOLOGY

#### (REVISED PROGRAM INFORMATION)

In all certificates, English 1A, Industrial Technology 74 and Welding Technology 70 have been removed.

## CERTIFICATE OF ACHIEVEMENT:

AUTOMOTIVE MAINTENANCE TECHNOLOGY

(CHANGE TOTAL TO 27)

AUTOMOTIVE CHASSIS TECHNOLOGY

(CHANGE TOTAL TO 12½)

AUTOMOTIVE DRIVETRAIN TECHNOLOGY

(CHANGE TOTAL TO 12½)

AUTOMOTIVE ENGINE MACHINING

(CHANGE TOTAL TO 12½)

AUTOMOTIVE ENGINE PERFORMANCE TECHNOLOGY

(CHANGE TOTAL TO 32)

(NEW COURSE)

**90 HYBRID VEHICLE OPERATION AND SERVICING 2 UNITS**

(May be repeated 3 times)

Study of hybrid vehicle architecture, operation, and servicing. Recommended: Automotive Technology 60, 61, 64B, 65, and 71 (or 71A and 71B), or equivalent. 24 total hours lecture, 32 total hours laboratory.

## CHANGES TO PAGES 85-95

## BIOLOGICAL SCIENCES

### BIOLOGY (BIOL)

(REVISED CATALOG DESCRIPTION)

**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 (*completed with a grade of "C" or higher*). Strongly recommended: eligibility for English 1A. 3 hours lecture, 3 hours laboratory. Transfer: CSU; CSU/GE: B2, B3; AA/AS.

### BIOTECHNOLOGY (BIOT)

(REVISED TRANSFER INFORMATION)

**20 CHEMISTRY FOR BIOTECHNOLOGY 4 UNITS**

Transfer: CSU; CSU/GE: B1, B3; IGETC: Area 5A; AA/AS.

### MICROBIOLOGY (MICR)

(REVISED CATALOG DESCRIPTION)

**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: B2, B3; IGETC: Area 5B & Lab; AA/AS.

## PHYSIOLOGY (PHSI)

(DELETE—REPLACED BY NURSING 88)

**2 PATHOPHYSIOLOGY 3 UNITS**

(DELETE —REPLACED BY NURSING 88L)

**2L PHYSICAL ASSESSMENTS ½–1 UNIT**

## BUSINESS (BUS)

(REVISED DEGREE)

### BUSINESS ADMINISTRATION

ASSOCIATE IN ARTS DEGREE

FRESHMAN YEAR FALL SPRING

Business 1A (Financial Accounting)\* . . . . . 4  
Business 12 (Introduction to Business) . . . . . 3  
Economics 1 (Principles of Microeconomics) . . . . . 3  
Business 1B (Managerial Accounting) . . . . . 4  
Economics 2 (Principles of Macroeconomics) . . . . . 3  
Mathematics 15 (Applied  
Calculus) or Mathematics 1 (Calculus I) . . . . . 3–5

SOPHOMORE YEAR FALL SPRING

Business 10 (Business Law) . . . . . 4  
Mathematics 43 (Introduction to Probability  
and Statistics) . . . . . 4  
Computer Application Systems 50 (Introduction  
to Computer Application Systems) or  
Computer Science 8 (Computer Literacy) . . . . . 3  
**Total . . . . . 31–33**

General Education Courses

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

**Total minimum units required . . . . . 60**

\*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.

Completion of this program satisfies lower division major preparation for Business at California State University, East Bay. Lower division requirements vary by transfer school. Please see a counselor for transfer requirements for specific institutions.

(REVISED CERTIFICATE)

### SMALL BUSINESS MANAGEMENT

CERTIFICATE OF ACHIEVEMENT

(REMOVE FROM OPTION)

Business 36 (Introduction to Marketing) . . . . . 3 units



## BUSINESS (BUS)

(REMOVED ADVISORY)

### 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.

(REMOVE INCORRECT COURSE—45 IS CORRECT)

### 43 GREEN AND SOCIALLY RESPONSIBLE INVESTING 3 UNITS

## CHANGES TO PAGES 98-107

## CHINESE (CHIN)

(REVISED TRANSFER INFORMATION)

### 1B ELEMENTARY CHINESE 5 UNITS

Transfer: CSU; UC; CSU/GE: C2; IGETC: Area 6A; AA/AS.

## COMMUNICATION STUDIES (COMM)

### DEGREE:

### AA-T—COMMUNICATION STUDIES AA—SPEECH COMMUNICATION

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.

(NEW DEGREE)

## COMMUNICATION STUDIES

ASSOCIATE IN ARTS FOR TRANSFER DEGREE

UNITS

### REQUIRED CORE (3 units)

Communication Studies 1  
(Fundamentals of Speech Communication) . . . . . 3

### LIST A (select two–6 units)

Communication Studies 3  
(Group Communication) . . . . . 3  
Communication Studies 10  
(Interpersonal Communication) . . . . . 3  
Communication Studies 46  
(Argumentation and Debate) . . . . . 3

### LIST B (select two–6 units)

Any List A course not used above . . . . . 3  
Communication Studies 2A  
(Oral Interpretation of Literature I) . . . . . 3  
Communication Studies 11 (Intercultural Communication) . . . 3  
Communication Studies 20 (Persuasion and Communication) . . 3  
Communication Studies 48 (Activities in Forensics) . . . . . 3  
Communication Studies 50 (Introduction to Communication  
Studies) . . . . . 3

### LIST C (select one–3 units)

Any List A or B course not used above . . . . . 3  
Communication Studies 5 (Readers' Theater) . . . . . 3  
Communication Studies 6  
(Introduction to Performance Studies) . . . . . 3  
Anthropology 3 (Social and Cultural Anthropology) . . . . . 3  
English 4 (Critical Thinking and Writing About  
Literature) . . . . . 3  
English 7 (Critical Thinking and Writing Across  
Disciplines) . . . . . 3  
Mass Communications 41  
(Introduction to Mass Communications) . . . . . 3  
Psychology 1 (General Psychology) . . . . . 3  
Sociology 1 (Principles of Sociology) . . . . . 3  
**Total** . . . . . 18

### General Education Courses

**Complete either the CSU/General Breadth or the (CSU) IGETC pattern.**

**Total minimum units required . . . . . 60\***

**\*All courses making up the minimum must be transferable to CSU, and a minimum GPA of 2.0 must be maintained.**

(NEW COURSE)

### 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; AA/AS.

(NEW COURSE)

### 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. 3 hours.

## COMPUTER APPLICATION SYSTEMS (CAS)

**DEGREE:**  
**AS—SOFTWARE SPECIALIST**  
**AS—ADMINISTRATIVE ASSISTANT**

**CERTIFICATE OF ACHIEVEMENT:**  
**ADMINISTRATIVE ASSISTANT**  
**OFFICE TECHNOLOGY**  
**SOFTWARE SPECIALIST**

**CERTIFICATE OF PROFICIENCY:**  
**BUSINESS GRAPHICS**  
**OFFICE TECHNOLOGY**

### OFFICE TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

**(CHANGES TO ELECTIVES)**

*\*Six units may be selected from the following:*

- Computer Applications Systems 54B (Microsoft Excel II) . . . 3 units
- Computer Applications Systems 58 (Microsoft Access) . . . . 3 units
- Computer Applications Systems 72J (Ten Key) . . . . . 1 unit
- Computer Applications Systems 72P (Introduction to Windows) . . . . . 1 unit
- Computer Applications Systems 72Q (Microsoft Outlook) . . 1 unit
- Computer Applications Systems 82 (Designing Web Pages) . 3 units
- Computer Applications Systems 88B (Microsoft Word II) . . 3 units

### OFFICE TECHNOLOGY CERTIFICATE OF PROFICIENCY

**(CHANGES TO ELECTIVES)**

*Select one course from the following:*

- Computer Applications Systems 72A, 72B, 72C, 72F, 72G, 72J, 72P, 72Q

## COMPUTER APPLICATION SYSTEMS (CAS)

**(REVISED CATALOG DESCRIPTION)**

**55 MICROSOFT OFFICE INTEGRATION** **3 UNITS**  
*(May be repeated 2 times)*

Develop a beginning/intermediate level of skills using the Microsoft Office features of Word, Excel, Access, and PowerPoint to design, produce and integrate: documents, worksheets, databases and professional presentations. Course emphasizes workplace communications and

information processing skills and standards. Students will complete integrated projects that apply technology to business tasks and represent what is required in an actual business environment using the components of Microsoft Office. Prerequisites: Computer Application Systems 50 or Computer Application Systems 54A and 88A or Computer Application Systems 72D, 72E, 72F, and 72G. (Combined credit for Computer Application Systems 55, 61, and 88A may not exceed 12 units.) 2 hours lecture, 2 hours laboratory. Transfer: CSU.

**(NEW COURSE)**

**72P INTRODUCTION TO WINDOWS** **1 UNIT**  
 Self-paced course focusing on the fundamentals of the latest version of Microsoft operating system; working with Windows programs; customizing the Desktop; and managing files and folders. Previous computer and keyboarding skills are highly desirable. 3 hours laboratory. Transfer: CSU.

**(NEW COURSE)**

**72Q MICROSOFT OUTLOOK** **1 UNIT**  
*(May be repeated 2 times)*

Learn the basics of using Microsoft Outlook. Use Outlook email features to send receive, reply to and forward email messages. Find out how to format, track messages and create auto-signatures. Learn to utilize the office clipboard, attach files to messages and open and save attached files. Discover how to use the calendar feature, manage contacts, and work with tasks. 3 hours laboratory. Transfer: CSU.

## COMPUTER SCIENCE (CSCI)

### COMPUTER SCIENCE (GENERAL)

ASSOCIATE IN ARTS OR  
 ASSOCIATE IN SCIENCE DEGREE

FRESHMAN YEAR FALL SPRING

- Computer Science 10 (Introduction to Programming Using Visual BASIC.NET) . . . . . 4
- Computer Science 14\*\* (Introduction to Structured Programming In C++) . . . . . 4
- Computer Science 41 (Introduction to UNIX) . . . . . 2
- Mathematics 40 (Concepts of Mathematics) or
- Mathematics 43 (Introduction to Probability and Statistics) or
- Mathematics 36 (Trigonometry) or
- Mathematics 37 (Trigonometry with an Emphasis on its Geometric Foundations) . . . . . 3-5

SOPHOMORE YEAR FALL SPRING

- Computer Science 15 (Object-Oriented Programming Methods) . . . . . 4
- Computer Science 19A (Java Programming I) . . . . . 4

***In addition take 8 units of Computer Science courses chosen from:***

- Computer Science 18A (The C Programming Language) 2 units
- Computer Science 20 (Introduction to Data Structures) 4 units
- Computer Science 21 (Computer Organization and Assembly Language Programming) 4 units
- Computer Science 42 (UNIX Tools, Shell Programming and System Administration Concepts) 2 units

**Total . . . . . 29-31**

**GENERAL EDUCATION UNITS FOR THE A.A. DEGREE . . . 25**

For specific General Education courses refer to catalog section on Graduation requirements.

**GENERAL EDUCATION UNITS FOR A.S. DEGREE . . . . . 19**

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

- General Education Courses (Areas A-E) . . . . . 16
- Computer Science GE Requirement . . . . . 3

*Complete a minimum of 3 units from*

- Mathematics 1 (Calculus I)
- Mathematics 2 (Calculus II)
- Mathematics 3 (Multivariable Calculus)
- Mathematics 4 (Elementary Differential Equations)
- Mathematics 6 (Elementary Linear Algebra)
- Mathematics 8 (Discrete Mathematics)
- Mathematics 12 (Introduction to Logic)
- Mathematics 20 (Pre-Calculus Mathematics)
- Mathematics 31 (College Algebra)
- Mathematics 33 (Finite Mathematics)
- Communication Studies 1 (Fundamentals of Speech Communication)
- Communication Studies 10 (Interpersonal Communication)
- Communication Studies 11 (Intercultural Communication)
- Chemistry 1A (General College Chemistry I)
- Chemistry 10 (Introduction to Chemistry)
- Physics 2A (Introduction to Physics I)
- Physics 4A (General Physics I)
- Physics 4B (General Physics II)
- Physics 4C (General Physics III)
- Physics 5 (Modern Physics)

**Total minimum units required . . . . . 60**

This program is not designed to satisfy core requirements for most Computer Science majors. The Computer Science transfer pattern requires more mathematics and includes more breadth-based topics. Students should consult a counselor and especially the catalog of the intended transfer institution for specific transfer information.

\*If a student is qualified to start at the Computer Science 15 level, the student may substitute any other 4 units of Computer Science courses. No mathematics or Computer Science course may be double counted except for General Education credit.

**COMPUTER SCIENCE  
(EMPHASIS IN MATHEMATICS)**

ASSOCIATE IN ARTS OR  
ASSOCIATE IN SCIENCE DEGREE

SOPHOMORE YEAR

FALL SPRING

**(REVISED TITLES)**

- Computer Science 15 (Object-Oriented Programming Methods) or Computer Science 19A (Object-Oriented Programming Methods in Java)\* . . . . . 4
- Computer Science 20 (Introduction to Data Structures) . . . . . 4

**(DELETE FOOTNOTE)**

\*Computer Science 15/20 (Object-Oriented Programming Methods in C++/Introduction to Data Structures in C++) and Computer Science 19A/20J (Object-Oriented Programming Methods in Java/Introduction to Data Structures Using Java) are sequences, taught in C++ and Java

respectively. If you opt for the C++ sequence, you must take Computer Science 15 (Object-Oriented Programming Methods in C++) followed by Computer Science 20 (Introduction to Data Structures in C++). If you opt for the Java sequence, then you must take Computer Science 19A (Object-Oriented Programming Methods in Java) followed by Computer Science 20J (Introduction to Data Structures Using Java). Transfer students are encouraged to take both Computer Science 15 (Object-Oriented Programming Methods in C++) and Computer Science 19

**COMPUTER SCIENCE (CSCI)**

**(REVISED PREREQUISITE)**

**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, 55B, 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). 3 hours lecture, 3 hours laboratory. Transfer: CSU; UC; AA/AS.

**(REVISED TITLE, CATALOG DESCRIPTION, PREREQUISITE)**

**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 of 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; AA/AS.

**(REVISED TITLE, CATALOG DESCRIPTION, PREREQUISITE)**

**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.

**CHANGES TO PAGES 108-115**

**DENTAL HYGIENE (DHYG)**

(REVISED DEGREE)

**DENTAL HYGIENE**  
ASSOCIATE IN ARTS DEGREE

FRESHMAN YEAR FALL SPRING

Dental Hygiene 50A (Dental Hygiene Orientation I) . . . . .	½
Dental Hygiene 60 (Dental Anatomy and Morphology) . . . . .	1½
Dental Hygiene 60S (Dental Anatomy and Morphology Independent Study) . . . . .	½
Dental Hygiene 61 (Head and Neck Anatomy) . . . . .	2
Dental Hygiene 61S (Head and Neck Anatomy Independent Study) . . . . .	1
Dental Hygiene 69A (Oral Health Education) . . . . .	2
Dental Hygiene 71A (Pre-Clinical Dental Hygiene) . . . . .	4
Dental Hygiene 71S ((Pre-Clinical Dental Hygiene Independent Study) . . . . .	1
Dental Hygiene 74A (Dental Radiography I) . . . . .	3
Health 60* (Responding to Emergencies) . . . . .	1
Health 70B** (Basic Life Support for Health Care Providers) . . . . .	0.2
Dental Hygiene 51 (General and Oral Pathology) . . . . .	4
Dental Hygiene 55A (Dental Materials) . . . . .	1
Dental Hygiene 69B (Treatment and Evaluation in Dental Hygiene) . . . . .	1
Dental Hygiene 71B (Clinical Dental Hygiene) . . . . .	4
Dental Hygiene 73 (Educational Theories in Dental Hygiene Care) . . . . .	1½
Dental Hygiene 74B (Dental Radiography II) . . . . .	1½
Dental Hygiene 75 (Medical Emergencies) . . . . .	1
Nutrition 1*** (Nutrition) . . . . .	3

SOPHOMORE YEAR FALL SPRING

Dental Hygiene 50B (Dental Hygiene Orientation II) . . . . .	½
Dental Hygiene 52A (Periodontics) . . . . .	2
Dental Hygiene 54 (Pharmacology) . . . . .	2
Dental Hygiene 56A (Community Dental Health I) . . . . .	1
Dental Hygiene 57 (Expanded Functions for the Dental Hygienist) . . . . .	2
Dental Hygiene 80A (Patient Management) . . . . .	1
Dental Hygiene 81A (Clinical Practice I) . . . . .	4
Dental Hygiene 82A (Clinical Experience Seminar I) . . . . .	1
Dental Hygiene 50C (Dental Hygiene Orientation III) . . . . .	½
Dental Hygiene 52B (Advanced Periodontics) . . . . .	1
Dental Hygiene 56B (Community Dental Health II) . . . . .	1
Dental Hygiene 58 (Dental Office Practice) . . . . .	1
Dental Hygiene 80B (Advanced Clinical Topics) . . . . .	1
Dental Hygiene 81B (Clinical Practice II) . . . . .	5
Dental Hygiene 82B (Clinical Experience Seminar II) . . . . .	2
Dental Hygiene 83 (Patients with Special Needs) . . . . .	1
<b>Total</b> . . . . .	<b>60.2</b>

General Education Courses  
For specific General Education courses refer to catalog section on Graduation Requirements.  
**Total minimum units required. . . . . 60\*\*\*\***

*\*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.*  
*\*\*\*\*The Dental Hygiene Program units combined with the Associate in Arts Degree 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.*

(NEW COURSE)

**68 EXTENDED CLINICAL EXPERIENCE** ½ 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.

(PREREQUISITE INFORMATION ADDED)

**71 C ADVANCED PERIODONTAL PROCEDURES** ½ 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.

**DIGITAL MEDIA (DIGM)**

**CERTIFICATE:  
DIGITAL MEDIA**

(REVISED CERTIFICATE)

**DIGITAL MEDIA**  
CERTIFICATE

FRESHMAN YEAR FALL SPRING

Digital Media 31A (Photoshop I) . . . . .	1½
Digital Media 31B (Photoshop II) . . . . .	1½
Digital Media 32A (Illustrator I) . . . . .	1½
Digital Media 32B (Illustrator II) . . . . .	1½
Digital Media 37 (Flash Actionsript)* . . . . .	3

SOPHOMORE YEAR FALL SPRING

Digital Media 38 (Flash Animation)* . . . . .	3
Digital Media 40 (Individual Projects in Digital Media) . . . . .	1
Digital Media 35A (Dreamweaver I) . . . . .	1½
Digital Media 35B (Dreamweaver II) . . . . .	1½
Digital Media 36A (Final Cut I) . . . . .	1½
Digital Media 36B (Final Cut II) . . . . .	1½
<b>Total</b> . . . . .	<b>16</b>

*\*Students may choose between Digital Media 37 and Digital Media 38; they are not required to take both.*

**(REVISED CATALOG DESCRIPTION)**

**36A FINAL CUT I** **1 1/2 UNITS**  
Introduction to video editing using Apple's Final Cut Pro software (or its simpler counterpart, Final Cut Express). 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 a Firewire hard drive and a set of headphones or earbuds. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

**(REVISED CATALOG DESCRIPTION)**

**36B FINAL CUT II** **1 1/2 UNITS**  
Continuation of the content and skills introduced in Digital Media 36A (Final Cut I), with emphasis on creative imagery through use of video and audio filters, motion and speed effects, and compositing. Each student must have a Firewire hard drive and a set of headphones or earbuds. Prerequisite: Digital Media 36A (completed with a grade of "C" or higher). 1 hour lecture, 2 hours laboratory. Transfer: CSU.

**(REVISED PREREQUISITE, CATALOG DESCRIPTION)**

**40 INDIVIDUAL PROJECTS IN DIGITAL MEDIA** **1 UNIT**  
*(May be repeated 3 times)*

Individual projects at the intermediate to advanced level. Development of knowledge and skills acquired in previous or current work with emphasis on current projects involving animation, interactive scripting, illustration, photo manipulation, video editing, website development, or some combination of these. Enrollment by portfolio or permission of instructor. 4 hours laboratory. Transfer: CSU.

**EARLY CHILDHOOD DEVELOPMENT (ECD)**

**DEGREE:**

**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)**

**(REVISED DEGREE)**

**EARLY CHILDHOOD DEVELOPMENT**  
ASSOCIATE IN ARTS DEGREE

FRESHMAN YEAR FALL SPRING

- Early Childhood Development 50 (Early Childhood Principles and Practices) . . . . . 3
- Early Childhood Development 54 (Child Health, Safety and Nutrition) . . . . . 3
- Early Childhood Development 56 (Child Growth and Development) . . . . . 3
- Early Childhood Development 62 (Child, Family, and Community) . . . . . 3
- Early Childhood Development 63 (Early Childhood Curriculum) . . . . . 4

SOPHOMORE YEAR FALL SPRING

- Early Childhood Development 60 (Introduction to the Young Child with Exceptional Needs) . . . . . 3
- Early Childhood Development 69 (Child Study: Observation and Assessment) . . . . . 3
- Early Childhood Development 79 (Teaching in a Diverse Society) . . . . . 3
- Early Childhood Development 90 (Practicum: Supervised Experience) . . . . . 4
- Early Childhood Development 95 (Work Experience) . . . . . 1
- Early Childhood Development 96 (Work Experience Seminar) . . . . . 1
- Total . . . . . 31**

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 Graduation Requirements.  
**Total minimum units required . . . . . 60**

**(REVISED DEGREE)**

**EARLY CHILDHOOD INTERVENTION**  
ASSOCIATE IN ARTS DEGREE

FRESHMAN YEAR FALL SPRING

- Early Childhood Development 50 (Early Childhood Principles and Practices) . . . . . 3
- Early Childhood Development 56 (Child Growth and Development) . . . . . 3
- Early Childhood Development 62 (Child, Family, and Community) . . . . . 3
- Early Childhood Development 54 (Child Health, Safety and Nutrition) . . . . . 3
- Early Childhood Development 63 (Early Childhood Curriculum) . . . . . 4
- Early Childhood Development 79 (Teaching in a Diverse Society) . . . . . 3



SOPHOMORE YEAR FALL SPRING

Early Childhood Development 40 (Social and Emotional Foundations for Early Learning) . . . . .	3
Early Childhood Development 60 (Introduction to the Young Child with Exceptional Needs) . . . . .	3
Early Childhood Development 69 (Child Study: Observation and Assessment) . . . . .	3
Early Childhood Development 90 (Practicum: Supervised Experience) . . . . .	4
Early Childhood Development 67 (Infant and Toddler Development and Caregiving) . . . . .	3
Early Childhood Development 91 (Adaptive Curriculum for Children with Exceptional Needs) . . . . .	3
<b>Total</b> . . . . .	<b>38</b>

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 Graduation Requirements.

<b>Total minimum units required.</b> . . . . .	<b>60</b>
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(REVISED CERTIFICATE)

**EARLY CHILDHOOD DEVELOPMENT (BASIC TEACHER)**  
CERTIFICATE OF ACHIEVEMENT

FRESHMAN YEAR FALL SPRING

Early Childhood Development 50 (Early Childhood Principles and Practices) . . . . .	3
Early Childhood Development 56 (Child Growth and Development) . . . . .	3
Early Childhood Development 62 (Child, Family, and Community) . . . . .	3
Early Childhood Development 63 (Early Childhood Curriculum) . . . . .	4

SOPHOMORE YEAR FALL SPRING

Early Childhood Development 60 (Introduction to the Young Child with Exceptional Needs) . . . . .	3
Early Childhood Development 90 (Practicum: Supervised Experience) . . . . .	4
Early Childhood Development 95 (Work Experience) . . . . .	1
Early Childhood Development 96 (Work Experience Seminar) . . . . .	1
Option* . . . . .	3
<b>Total</b> . . . . .	<b>25</b>

\*One course to be selected from the following:

Early Childhood Development 40 (Social and Emotional Foundation for Early Learning) . . . . .	3 units
Early Childhood Development 54 (Child Health, Safety and Nutrition) . . . . .	3 units
Early Childhood Development 69 (Child Study: Observation and Assessment) . . . . .	3 units
Early Childhood Development 79 (Teaching in a Diverse Society) . . . . .	3 units

(REVISED CERTIFICATE)

**EARLY CHILDHOOD INTERVENTION ASSISTANT**  
CERTIFICATE OF ACHIEVEMENT

FRESHMAN YEAR FALL SPRING

Early Childhood Development 50 (Early Childhood Principles and Practices) . . . . .	3
Early Childhood Development 56 (Child Growth and Development) . . . . .	3
Early Childhood Development 62 (Child, Family, and Community) . . . . .	3
Early Childhood Development 54 (Child Health, Safety and Nutrition) . . . . .	3
Early Childhood Development 63 (Early Childhood Curriculum) . . . . .	4

SOPHOMORE YEAR FALL SPRING

Early Childhood Development 40 (Social and Emotional Foundations for Early Learning) . . . . .	3
Early Childhood Development 60 (Introduction to the Young Child with Exceptional Needs) . . . . .	3
Early Childhood Development 90 (Practicum: Supervised Experience) . . . . .	4
Early Childhood Development 67 (Infant and Toddler Development and Caregiving) . . . . .	3
Early Childhood Development 91 (Adaptive Curriculum for Children with Exceptional Needs) . . . . .	3
<b>Total</b> . . . . .	<b>32</b>

(REVISED CERTIFICATE)

**EARLY CHILDHOOD DEVELOPMENT (ASSOCIATE TEACHER)**  
CERTIFICATE OF PROFICIENCY

FRESHMAN YEAR FALL SPRING

Early Childhood Development 50 (Early Childhood Principles and Practices) . . . . .	3
Early Childhood Development 56 (Child Growth and Development) . . . . .	3
Early Childhood Development 62 (Child, Family, and Community) . . . . .	3
Early Childhood Development 63 (Early Childhood Curriculum) . . . . .	4
<b>Total</b> . . . . .	<b>13</b>

**EARLY CHILDHOOD DEVELOPMENT (ECD)**

(REVISED PREREQUISITE)

**40 SOCIAL AND EMOTIONAL FOUNDATIONS FOR EARLY LEARNING 3 UNITS**

This course will 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; AA/AS.

(DELETE)

**51 PRENATAL TO EARLY CHILDHOOD 3 UNITS**

(REVISED TRANSFER INFORMATION)

**54 CHILD HEALTH, SAFETY AND NUTRITION 3 UNITS**

Transfer: CSU; CSU/GE: E; AA/AS.

(NEW COURSE)

**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; CSU/GE: D7, E; IGETC: Area 4G; AA/AS.

(REVISED PREREQUISITE)

**59 LITERACY IN EARLY CHILDHOOD 3 UNITS**

Enhance the early literacy outcomes of young children by improving teachers' knowledge of early literacy development and their skills in teaching early literacy to young children from birth through school age. Strongly recommended Early Childhood Development 56. 3 hours. Transfer: CSU.

(REVISED PREREQUISITE)

**60 INTRODUCTION TO THE YOUNG CHILD WITH EXCEPTIONAL NEEDS 3 UNITS**

Introduction to educational philosophies for educating infants and children with exceptional needs. Typical and atypical developmental characteristics and abilities in infants and preschoolers. Assessments, interventions, and learning environments for the infant and preschooler with exceptional needs. Prerequisite: Early Childhood Development 56 (completed with a grade of "C" or higher) 3 hours. Transfer: CSU.

(REVISED PREREQUISITE)

**63 EARLY CHILDHOOD CURRICULUM 3 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 within cultural context. Prerequisite: Early Childhood Development 50 and 56 (both completed with a grade of "C" or higher). 3 hours lecture, 3 hours laboratory. Transfer: CSU.

(REVISED PREREQUISITE)

**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.

(REVISED PREREQUISITE)

**67 INFANT AND TODDLER DEVELOPMENT AND CAREGIVING 3 UNITS**

Analysis of infant and toddler development and care, birth through 36 months. Study of current caregiving practices in infant/toddler centers and family day care homes. 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: D7.

(REVISED TITLE, PREREQUISITE)

**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; AA/AS.

## CHANGES TO PAGES 117-122

# ELECTRONIC SYSTEMS TECHNOLOGY (ESYS)

(REVISED PROGRAMS)

**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 Electronic 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

FRESHMAN YEAR FALL SPRING

Electronic Systems Technology 50 (Introduction to Electronic Systems Technology) . . .	2
Electronic Systems Technology 51 (Fabrication Techniques for Electronic Systems Technology) . . . . .	2
Electronic Systems Technology 52 (Electronic Systems Measurement and Troubleshooting) . . . . .	2
Electronic Systems Technology 59 (Communication Network Systems) . . . . .	2
Electronic Systems Technology 54 (Analog Circuits and Semiconductor Devices) . . . . .	2
Electronic Systems Technology 55A (Microcontroller Systems) . . . . .	2
Electronic Systems Technology 55B (Digital Logic Systems) . . . . .	2
Electronic Systems Technology 58 (Wireless Communication Systems) . . . . .	2

SOPHOMORE YEAR FALL SPRING

Electronic Systems Technology 56A (Electronic Power Systems I) . . . . .	2
Electronic Systems Technology 56B (Electronic Power Systems II) . . . . .	2
Electronic Systems Technology 57A (Process Control Systems) . . . . .	2
Electronic Systems Technology 57B (PLC and Robotic System Components) . . . . .	2
Electronic Systems Technology 53 (Personal Computer Systems) . . . . .	2
Electronic Systems Technology 60 (Electronic Systems Analysis) . . . . .	2
Electronic Systems Technology 61 (Electronic Systems Project Management) . . . . .	2
Electronic Systems Technology 62 (Home Technology Systems) . . . . .	2
<b>Total</b> . . . . .	<b>32</b>

**GENERAL EDUCATION UNITS FOR A.S. DEGREE . . . . . 19**

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

General Education Courses (Areas A-E) . . . . .	16
Electronic Systems Technology GE Requirement . . . . .	3
<i>Complete a minimum of 3 units from</i>	
Business 14 (Business Communications)	
Computer Application Systems 92A (Networking for Home and Small Businesses)	
Computer Application Systems 92B (Networking for a Small-to-Medium Business or ISP)	
English 70 (Report Writing)	
Industrial Technology 74 (Measurements and Calculations)	
Physics 11 (Descriptive Physics)	

**Total minimum units required. . . . . 60**

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.

## CONSUMER TECHNOLOGY

CERTIFICATE OF ACHIEVEMENT

FRESHMAN YEAR FALL SPRING SUMMER

Electronic Systems Technology 50 (Introduction to Electronic Systems Technology) . . . . .	2
Electronic Systems Technology 51 (Fabrication Techniques for Electronic Systems Technology) . . . . .	2
Electronic Systems Technology 52 (Electronic Systems Measurement and Troubleshooting) . . . . .	2
Electronic Systems Technology 59 (Communication Network Systems) . . . . .	2
Electronic Systems Technology 53 (Personal Computer Systems) . . . . .	2
Electronic Systems Technology 54 (Analog Circuits and Semiconductor Devices) . . . . .	2
Electronic Systems Technology 56A (Electronic Power Systems I) . . . . .	2
Electronic Systems Technology 62 (Home Technology Systems) . . . . .	2
<b>Total</b> . . . . .	<b>16</b>

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.

## INDUSTRIAL TECHNOLOGY

CERTIFICATE OF ACHIEVEMENT

FRESHMAN YEAR FALL SPRING SUMMER

Electronic Systems Technology 50 (Introduction to Electronic Systems Technology) . . . . .	2
Electronic Systems Technology 52 (Electronic Systems Measurement and Troubleshooting) . . . . .	2
Electronic Systems Technology 57A (Process Control Systems) . . . . .	2
Electronic Systems Technology 57B (PLC and Robotic System Components) . . . . .	2
Electronic Systems Technology 51 (Fabrication Techniques for Electronic Systems Technology) . . . . .	2
Electronic Systems Technology 55A (Microcontroller Systems) . . . . .	2
Electronic Systems Technology 55B (Digital Logic Systems) . . . . .	2
Electronic Systems Technology 58 (Wireless Communication Systems) . . . . .	2
Electronic Systems Technology 56A (Electronic Power Systems I) . . . . .	2
<b>Total</b> . . . . .	<b>18</b>

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.



## ELECTRONIC SYSTEMS TECHNOLOGY (ESYS)

**(CHANGED PREREQUISITE TO COREQUISITE)**

### **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. Corequisite: Electronic Systems Technology 50 or equivalent. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

**(REVISED PREREQUISITE)**

### **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.

**(PREREQUISITE REMOVED)**

### **62 HOME TECHNOLOGY SYSTEMS 2 UNITS**

Hands-on training in digital home networking and systems integration. Includes many, but not all, objectives of CompTIA's certification exam. Home network design and configuration; home network central components and low-voltage wiring; video and audio fundamentals; audio/video installation and setup; wiring standards, testing and certification; troubleshooting. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

## ENGINEERING (ENGR)

### **DEGREE: AS-ENGINEERING**

**(RESIDENCY REQUIREMENT ADDED)**

#### **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.

**(REVISED DEGREE)**

### **ENGINEERING ASSOCIATE IN SCIENCE DEGREE**

#### **FRESHMAN YEAR FALL SPRING**

Engineering 25 (Computational Methods for Engineers and Scientists) . . . . .	3
Chemistry 1A (General College Chemistry) . . . . .	5
Mathematics 1 (Calculus I) . . . . .	5
Mathematics 2 (Calculus II) . . . . .	5
Physics 4A (General Physics I) . . . . .	5

#### **SOPHOMORE YEAR FALL SPRING**

Engineering 36 (Engineering Mechanics - Statics) . . . . .	3
Engineering 43 (Electrical Circuits and Devices) . . . . .	4
Engineering 45 (Materials of Engineering) . . . . .	3
Physics 4B (General Physics II) . . . . .	5

*Plus One (1) Course from the Following:*

Biology 2A <sup>1</sup> (Principles of Biology I) . . . . .	5
Chemistry 1B <sup>2</sup> (General College Chemistry II) . . . . .	5
Engineering 10 (Introduction to Engineering) . . . . .	2
Engineering 11 (Engineering Design and Analysis) . . . . .	2
Engineering 22 <sup>3</sup> (Engineering Design Graphics) . . . . .	3
Mathematics 4 <sup>4</sup> (Elementary Differential Equations) . . . . .	3
Mathematics 6 <sup>4</sup> (Elementary Linear Algebra) . . . . .	3
Physics 4C (General Physics III) . . . . .	5
<b>Total . . . . .</b>	<b>40-43</b>

#### **GENERAL EDUCATION UNITS FOR A.S. DEGREE . . . . . 19**

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

General Education Courses (Areas A-E) . . . . .	16
Engineering GE Requirement . . . . .	3
<i>Complete a minimum of 3 units from</i>	
Business 40 (International Business)	
Computer Science 14 (Introduction to Structured Programming in C++)	
Communication Studies 1 (Fundamentals of Speech Communication)	
Economics 1 (Principles of Microeconomics)	
<b>Total minimum units required . . . . .</b>	<b>60</b>

<sup>1</sup>*Bio Engineering, Biomedical Engineering, and Biomechanical Engineering majors should take Biology 2A.*

<sup>2</sup>*Chemical Engineering and Materials Engineering majors should take Chemistry 1B.*

<sup>3</sup>*Civil, Industrial, and Mechanical Engineering majors should take Engineering 22.*

<sup>4</sup>*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.

## **ENGINEERING (ENGR)**

**(REVISED TITLE, CATALOG DESCRIPTION)**

### **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. Prerequisites: Physics 4A and Engineering 25 (both completed with a grade of "C" or higher). Strongly recommended: Physics 4B (concurrent enrollment encouraged). 3 hours lecture, 3 hours laboratory. Transfer: CSU; UC.

## ENGLISH (ENGL)

**(REVISED TRANSFER INFORMATION)**  
**26 THE LITERATURE OF IMMIGRATION AND MIGRATION** **3 UNITS**  
 Transfer: CSU; CSU/GE: C2; IGETC: Area 3B; AA/AS.

## CHANGES TO PAGES 127-131

## FIRE TECHNOLOGY (FT)

**FIRE TECHNOLOGY**  
 ASSOCIATE IN ARTS OR  
 ASSOCIATE IN SCIENCE DEGREE

SOPHOMORE YEAR FALL SPRING

**(COURSE TITLE CHANGE)**  
 Fire Technology 91A (CAL FIRE Wildland Firefighter Basic Training) . . . . . 3

**(ADD)**  
 Fire Technology 91D (Fire Fighter Survival) . . . . . 1/2

**(REVISE TOTAL UNITS)**  
**Total** . . . . . **22\*\*-44 1/2**

**FIRE TECHNOLOGY**  
 CERTIFICATE OF ACHIEVEMENT

SOPHOMORE YEAR FALL SPRING

**(COURSE TITLE CHANGE)**  
 Fire Technology 91A (CAL FIRE Wildland Firefighter Basic Training) . . . . . 3

**(ADD)**  
 Fire Technology 91D (Fire Fighter Survival) . . . . . 1/2

**(REVISE TOTAL UNITS)**  
**Total** . . . . . **22\*\*-44 1/2**

**FIRE TECHNOLOGY (FT)**

**(ADVISORY ADDED)**  
**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 1A. 3 hours lecture, plus a total of 12 hours laboratory for the semester. Transfer: CSU.

**(REVISED CATALOG DESCRIPTION)**  
**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.

**(REVISED CATALOG DESCRIPTION)**  
**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.

**(REVISED TITLE AND CATALOG DESCRIPTION)**  
**72 FIRE MANAGEMENT 1: 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.

**(NEW COURSE)**  
**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.

**(NEW COURSE)**  
**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). 30 total hours lecture, 10 total hours laboratory. Transfer: CSU.

**(REVISED CATALOG DESCRIPTION)**

**89 FIREFIGHTER-1 ACADEMY INTRODUCTION** 1/2 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; Health 81 (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 or 65A and eligibility for English 1A. 4 hours total lecture, 12 hours total laboratory

**(REVISED CATALOG DESCRIPTION)**

**90A FIREFIGHTER-1 CERTIFICATION PREPARATION (BASIC)** 2 UNITS  
*(May be repeated once if Fire Technology 90B not completed)*  
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 doctor. Prerequisites: Fire Technology 50, 51, 52 and 89; Physical Education 2FSC or equivalent firefighter physical conditioning training; Health 81 or proof of current completion of an Emergency Medical Technician Program from another institution. *(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.

**(REVISED TITLE AND CATALOG DESCRIPTION)**

**91A CAL FIRE WILDLAND FIREFIGHTER BASIC TRAINING** 3 UNITS  
*(May be repeated once if Fire Technology 91A was taken before Fall 2009)*  
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.

**(NEW COURSE)**

**91D FIREFIGHTER SURVIVAL** 1/2 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.

**FOREIGN LANGUAGES**

**(DISCIPLINE CHANGE)**  
(See World Languages)

**CHANGES TO PAGES 133-134**

**GEOGRAPHY (GEOG)**

**DEGREE:  
AA—GEOGRAPHY**

**CERTIFICATE OF PROFICIENCY:  
GEOGRAPHIC INFORMATION  
SYSTEMS**

**(REVISED DEGREE)  
GEOGRAPHY  
ASSOCIATE IN ARTS DEGREE**

FRESHMAN YEAR FALL SPRING

- Geography 1 (Introduction to Physical Geography)..... 3
- Geography 1L (Introduction to Physical Geography Laboratory)..... 1
- Geography 5 (World Regional Geography) ..... 3

SOPHOMORE YEAR FALL SPRING

- Geography 2 (Cultural Geography) ..... 3
- Geography 8 (Introduction to Weather and Climate)..... 3
- Geography 20 (Introduction to Geographic Information Systems)..... 3
- Elective\*..... 3-4
- Total..... 19-20**

General Education Courses  
For specific General Education courses refer to catalog section on General Requirements  
**Total minimum units required ..... 60**

- \*Select from the following for an additional 3-4 units**
- Anthropology 3 (Social and Cultural Anthropology) 3 units
  - Economics 1 (Principles of Microeconomics) 3 units
  - Geography 3 (Economic Geography) 3 units
  - Geography 10 (Global Environmental Problems) 3 units
  - Geography 12 (Geography of California) 3 units

**(NEW COURSE)  
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; CSU/GE: D5, D7; AA/AS.

## CHANGES TO PAGE 136

### HEALTH (HLTH)

#### (REVISED TITLE, CATALOG DESCRIPTION)

#### **85 EMERGENCY MEDICAL TECHNICIAN—BASIC:**

##### REFRESHER

1 1/2 UNITS

(May be repeated 3 times)

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. Prerequisite: current EMT certification. 24 total hours accredited by the Alameda County Emergency Medical Services Agency.

## CHANGES TO PAGES 173-175

### LIBERAL ARTS

#### DEGREE:

#### **AA—LIBERAL ARTS**

### 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.

#### (REVISED DIRECTIONS)

- 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 19-21 of the 2010-2012 Chabot College Catalog*).
- 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. (*See a counselor or the Articulation Officer for assistance.*)
- All classes listed below transfer to CSU. Courses in **BOLD** also are transferable to UC. Refer to [www.assist.org](http://www.assist.org) for transfer details.
- Complete 60 degree-applicable units overall. Options II and III will require 60 CSU (Option II) or UC (Option III) transferable units to meet transfer requirements.

#### AREAS OF EMPHASIS

- 18 units from one Area of Emphasis listed below.
- When appropriate, courses selected can be used to also fulfill GE areas.
- For depth, include a minimum of two courses from a single discipline; for breadth, include courses from at least two disciplines.
- All courses listed below transfer to CSU.
- Courses in **BOLD** also transfer to UC.
- 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.*)

#### AREAS OF EMPHASIS

#### (REVISIONS)

#### **Emphasis 1 - Arts and Humanities:**

##### (ADD)

English **26**  
Italian **1A, 1B, 2A, 2B**  
Theater Arts **6, 8, 47**

#### **Emphasis 2 - Communication in the English Language:**

##### (ADD)

Communication Studies **3, 5, 6, 48, 50**

#### **Emphasis 3 - Social and Behavioral Sciences:**

##### (ADD)

Early Childhood Development **56**  
Geography **10**  
Health **8**  
Political Science **10**  
Sociology **5, 6**

##### (DELETE)

Early Childhood Development **51**

#### **Emphasis 4 - Mathematics and Science:**

##### (NO CHANGES)

#### (NEW AREA OF EMPHASIS)

**Emphasis 5 - Kinesiology and Wellness:** *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.*

These courses emphasize study in the disciplines that comprise Kinesiology and Wellness. This Area of Emphasis provides the student with an understanding of physical education, health promotion and the mechanics of human bodily movement. In addition to the foundational Physical Education and Movement courses, students will also examine Kinesiology and Wellness from scientific, nutritional and behavioral development as well as those elements that are included in the diversity cluster.

#### **Cluster 1: Physical Education and Movement (Minimum 6 units selected from the following)**

Health **60, 61**  
Physical Education **17, 20, 23, 27, 28** (*unit limits on UC transfer*)





Prerequisite: MURT 21A. 2 hours lecture, 4 hours laboratory. Transfer: CSU.

**(REVISED TITLE)**

**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.

**(NEW COURSE)**

**26 MUSIC BUSINESS AND THE LAW 3 UNITS**

*(May be repeated 3 times)*

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.

**(DELETE)**

**27 MUSIC BUSINESS 3 UNITS**

**(NEW COURSE)**

**28 MUSIC INDUSTRY CAREER DEVELOPMENT 3 UNITS**

*(May be repeated 3 times)*

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.

**CHANGES TO PAGE 159**

**NURSING (NURS)**

**(REVISED CATALOG DESCRIPTION)**

**55 FUNDAMENTALS OF NURSING PRACTICE 8½ UNITS**

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, and the acute processes of pneumonia and influenza. Beginning nursing skills include: principles of medical asepsis, body mechanics, standard precautions, hygienic and nutritional care, basic assessment, and administration of fluids and medications. 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. Prerequisite: Acceptance into the Nursing Program. Corequisites: Nursing 69, Nursing 61, Nursing 58, Nursing 56, Nursing 74. 4 hours lecture; 11.5 hours clinical practice, 2 hours laboratory. Transfer: CSU.

**(REVISED CATALOG DESCRIPTION)**

**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 setting. Concepts related to development of critical thinking skills as well as prioritization of care will be discussed. Application of standards of the California Nursing Practice Act as well as principles of safe clinical practice will be incorporated. Prerequisites: Nursing 88 and Nursing 88L (or equivalent) and all required nursing courses (or equivalent) in semesters one through three, and concurrent or prior enrollment in Nursing 73 and concurrent enrollment in Nursing 66 (completed with

a grade of "C" or higher). 4 hours lecture, 14.5 hours clinical 1 hour laboratory. Total weeks 12. Transfer: CSU.

**(REVISED CATALOG DESCRIPTION, HOURS)**

**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 (Nursing 55, Nursing 56, Nursing 58, Nursing 59, Nursing 61, Nursing 69, Nursing 74, Nursing 75, Nursing 88 and Nursing 88L or their equivalents. Nursing 70 is a prerequisite for LVNs joining the program.) Concurrent enrollment in the third or fourth semester of the nursing program (Nursing 60A, Nursing 60B and Nursing 64). 12 total hours lecture, 12 total hours laboratory. Transfer: CSU.

**CHANGES TO PAGE 171**

**POLITICAL SCIENCE (POSC)**

**DEGREE:**

**AA—POLITICAL SCIENCE**

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 AA 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.

**(NEW DEGREE)**

**POLITICAL SCIENCE**

**ASSOCIATE IN ARTS DEGREE**

FRESHMAN YEAR FALL SPRING

Political Science 1 (Introduction to American Government) . . . . .	3
Political Science 25 (Introduction to Political Theory) . . . . .	3
Political Science 30 (International Relations) . . . . .	3

SOPHOMORE YEAR FALL SPRING

Political Science 20 (Comparative Politics) . . . . .	3
Political Science 12 (Introduction to California State and Local Government) or Political Science 40 (Contemporary Issues in American Politics) . . . . .	3
Option* . . . . .	3
<b>Total . . . . .</b>	<b>18</b>

General Education Courses

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

**Total minimum units required . . . . . 60**

**\*Option—choose three units from the following:**

- Anthropology 3 (Social and Cultural Anthropology) . . . . . 3 units
- Anthropology 5 (Cultures of the U.S.: Anthropological Perspectives on Race, Class, Gender and Ethnicity) . . . . . 3 units
- Anthropology 7 (Introduction to Globalization: An Anthropological Perspective) . . . . . 3 units
- Communication Studies 11 (Intercultural Communication) . . . . . 3 units
- Communication Studies 46 (Argumentation and Debate) . . . . . 3 units
- Economics 1 (Principles of Microeconomics) . . . . . 3 units
- Economics 2 (Principles of Macroeconomics) . . . . . 3 units
- Geography 2 (Cultural Geography) . . . . . 3 units
- Political Science 10 (Seminar in Comparative Politics) . . . . . 3 units
- Religious Studies 50 (Religions of the World) . . . . . 3 units
- Sociology 2 (Social Problems) . . . . . 3 units
- Sociology 3 (American Cultural and Racial Minorities) . . . . . 3 units

**(REVISED TRANSFER INFORMATION)**

**12 INTRODUCTION TO CALIFORNIA STATE AND LOCAL GOVERNMENT 3 UNITS**

Transfer: CSU; CSU/GE: D8; IGETC: Area 4H; AA/AS.

**(NEW COURSE)**

**50 STUDENT LEADERSHIP 2 UNITS**

Training in student leadership and governance. Processes and methods of effective leadership and communication in group situations. Theories of leadership, the roles and responsibilities of student leaders, parliamentary procedures and policies. Fundamentals of successful meetings, public communication and event coordination. 2 hours. Transfer: CSU.

**(NEW COURSE)**

**51 STUDENT LEADERSHIP LABORATORY 1-2 UNITS**

Practical application of effective student leadership skills. Includes, but is not limited to, conducting and attending meetings, holding office hours, sitting on committees, and planning and attending campus events. Students will attend and participate in Associated Student meetings, club, or shared governance meetings to receive credit for this course. Prerequisite (may be taken concurrently): Political Science 50. 3-6 hours laboratory. Transfer: CSU.

**CHANGES TO PAGE 183**

**SIGN LANGUAGE (SL)**

**(REVISED TITLE, CATALOG DESCRIPTION)**

**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: C2; AA/AS.

**(REVISED TITLE, CATALOG DESCRIPTION)**

**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: C2; IGETC: Area 6A-LOTE; AA/AS.

**(REVISED CATALOG DESCRIPTION)**

**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.

**CHANGES TO PAGES 183-188**

**SOCIOLOGY (SOCI)**

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 science whose principles are based on theory and empirical research. As a large discipline with over 100 specializations, Sociology offers students the opportunity to pursue interests in fields as diverse as medical sociology, social psychology, criminology, family studies, social problems, gerontology, deviance, disabilities, peace studies, and child development.

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.

**DEGREE:**

**AA-T—SOCIOLOGY**

NEW DEGREE)

# SOCIOLOGY

ASSOCIATE IN ARTS FOR TRANSFER DEGREE

UNITS

**REQUIRED CORE (3 units)**

Sociology 1 (Principles of Sociology) . . . . . 3

**LIST A (select two–6-7 units)**

Sociology 2 (Social Problems) . . . . . 3

Sociology 5 (Introduction to Social Research Methods) . . . . . 3

Mathematics 43 (Introduction to Probability and Statistics) . . . . . 4

**LIST B (select two–6-7 units)**

Any List A course not used above . . . . . 3-4

Sociology 3 (American Cultural and Racial Minorities) . . . . . 3

Sociology 4 (Marriage and Family Relations) . . . . . 3

Sociology 6 (Introduction to Gender) . . . . . 3

**LIST C (select one–3 units)**

Any List A or B course not used above . . . . . 3

Sociology 8 or Psychology 8 or Health 8

(Human Sexuality) . . . . . 3

Sociology 10 (Introduction to Asian American Studies) . . . . . 3

Sociology 30 (Social Gerontology) . . . . . 3

Psychology 1 (General Psychology) . . . . . 3

Anthropology 3 (Social and Cultural Anthropology) . . . . . 3

Geography 2 (Cultural Geography) . . . . . 3

Ethnic Studies 3 (Introduction to Muslim-American Studies) . . . . . 3

History 21 (The African-American Experience

in U.S. History Since Reconstruction) . . . . . 3

History 22 (Mexican American History and Culture) . . . . . 3

History 25 (American Indian History and Culture) . . . . . 3

**Total . . . . . 18-19**

**General Education Courses**

**Complete either the CSU/General Breadth or the (CSU) IGETC pattern.**

**Total minimum units required . . . . . 60\***

**\*All courses making up the minimum must be transferable to CSU, and a minimum GPA of 2.0 must be maintained.**

**(NEW COURSE)**

**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. Strongly recommended: Sociology 1. 3 hours.

**(NEW COURSE)**

**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 macroanalyses of how institutions shape gender and microanalysis of how individuals are socialized and how they “do” and practice gender. 3 hours.

# THEATER ARTS (THTR)

**(REVISED DEGREE)**

## THEATER ARTS

ASSOCIATE IN ARTS DEGREE

FRESHMAN YEAR

FALL SPRING

Theater Arts 1 (Introduction to Acting) . . . . . 3

Theater Arts 10 (Introduction to Theater Arts) . . . . . 3

Theater Arts 20 (Introduction to Design for the Theater) . . . . . 3

Theater Arts 30 (Emerging Work) . . . . . 3

SOPHOMORE YEAR

FALL SPRING

Theater Arts 48 (College Theater Technical) . . . . . 3

Option\* . . . . . 3

Option\* . . . . . 3

**Total . . . . . 21**

General Education Courses

For specific General Education courses refer to catalog section on

Graduation Requirements.

**Total minimum units required . . . . . 60**

*\* Select any six units from the following options:*

Theater Arts 2 (Intermediate Acting) . . . . . 3 units

Theater Arts 3 (Improvisation for the Theater) . . . . . 3 units

Theater Arts 4 (Acting on Camera) . . . . . 3 units

Theater Arts 5 (Theater for Young Audiences) . . . . . 3 units

Theater Arts 6 (Advanced Improvisation and

Movement for Actors) . . . . . 3 units

Theater Arts 7 (Voice for the Actor) . . . . . 3 units

Theater Arts 8 (Audition Technique) . . . . . 3 units

Theater Arts 11 (Stage to Film) . . . . . 3 units

Theater Arts 12 (Film as Art and Communication) . . . . . 3 units

Theater Arts 16 (Dramatic Writing I) . . . . . 3 units

Theater Arts 47 (College Theater Acting) . . . . . 3 units

Theater Arts 50 (Production Management) . . . . . 1-6 units

# THEATER ARTS (THTR)

**(NEW COURSE)**

**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 what it takes to audition for theater, film and four-year schools. Students will be expected to have a headshot taken at their own expense. 3 hours

# WELDING TECHNOLOGY (WELD)

**(REVISED TRANSFER INFORMATION)**

**71 WELDING FOR ARTISTS 1 UNIT**

Transfer: CSU.



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**(CORRECTION)**

Disregard footnotes for Industrial Technology 74 (Measurements and Calculations). This course DOES NOT satisfy mathematics requirement for graduation.

**(RETITLED FROM "FOREIGN LANGUAGES")**

**WORLD LANGUAGES (WORL)**

**(REVISED TITLE, CATALOG DESCRIPTION)**

**1L WORLD LANGUAGES LAB**

**1/2 - 1 UNIT**

*(May be repeated 3 times)*

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 1/2 -3 hours laboratory.