

CHABOT COLLEGE
CATALOG ADDENDUM
2009-2010



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www.chabotcollege.edu

CATALOG UPDATE

The current Chabot College Catalog covers the period 2008-2010. Chabot College will not produce a new catalog this year but, rather, this addendum which reflects all changes or corrections through Spring, 2009. It is anticipated that a fully revised college catalog will be produced in Spring 2010.

This catalog supplement should be used by students and staff along with the existing 2008-2010 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 2009-2010

FALL SEMESTER 2009

Orientation Week
August 10, 11, 12..... New Faculty Orientation
August 13 Convocation Day
August 14..... Division Day
August 17..... INSTRUCTION BEGINS
August 22..... Instruction Begins Saturday Classes
September 4 Last day to Add or Drop
(NGR–No Grade of Record) in person
September 6 Last day to Add or Drop
(NGR–No Grade of Record) online
September 5-7 Holiday Weekend – Labor Day
Campus Closed
September 8 Census for Full-Term Classes
September 18 Deadline to apply for Pass/No Pass
(Full-Term Classes)
October 30..... Last day to to apply for Graduation
end of Fall Semester 2009
November 6 Last day to drop with a “W” (Withdrawl)
(in person or online)
November 13 Holiday – Veterans Day
November 14 Saturday classes meet as scheduled
November 25-28 Holiday – Thanksgiving
Campus Closed – No Saturday classes
December 11..... Last Day of Instruction, Full-Term Classes
December 12..... Last Day of Instruction, Saturday Classes
December 14-19 Final Examination Period
December 21-January 18..... Semester Recess
January 6..... Deadline for Instructors to File Grades

SPRING SEMESTER 2010

January 18..... Holiday – Martin Luther King, Jr. Day
Campus Colsed
January 19..... INSTRUCTION BEGINS
January 26..... Instruction Begins Saturday Classes
February 5..... Last day to Add or Drop
(NGR–No Grade of Record) in person
February 7..... Last day to Add or Drop
(NGR–No Grade of Record) online
February 8..... CENSUS DAY
TBA..... Mandatory Flex Day (Campus Closed
for daytime courses starting before 4:00 PM only)
February 12, 13, 15..... Holiday – Presidents' Weekend
Campus Closed
February 19..... Deadline to apply for Pass/No Pass
April 3..... Saturday classes meet
April 5-10 Spring Break (No Instruction)
April 16..... Last day to drop with a “W” (Withdrawl)
(in person and online)
April 30..... Last day to to apply for Graduation
end of Spring Semester 2010
May 17..... Last Day of Instruction, Saturday Classes
TBA..... LAST DAY OF INSTRUCTION
May 22-28 Final Examination Period
May 31..... Holiday – Memorial Day
Campus Closed
May 28..... Commencement
TBA..... Deadline for Instructors to File Grades

CHANGES TO PAGES 16-19

(REVISED: “LIBERAL STUDIES” TO “LIBERAL ARTS”)

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

Students earning a certificate, A.S., or A.A. degree in an Occupational/Technical area must complete a minimum of 12 units in residency at Chabot College within the degree major or certificate program. Students in articulated degree/transfer or Liberal Arts programs will need a total of 12 units of residency at Chabot College in general education, major, or elective courses.

DEGREE AND CERTIFICATE PROGRAMS

(ADD)

Program	Associate in Arts	Associate in Science	Certificate of Achievement	Certificate of Proficiency	Certificate
Bookkeeping (changed from Certificate, pending state approval)			X		
Business—Transfer (pending state approval)			X		
Consumer Technology (pending state approval)			X		
Early Childhood Intervention (pending state approval)	X				
Early Childhood Intervention Assistant (pending state approval)			X		
Electronic Systems Technology (pending state approval)		X			
Engineering		X			
Health Care Management (pending state approval)			X		
Human Resources Assistant (pending state approval)			X		
Industrial Electronic Technology (pending state approval)			X		
Liberal Studies—Elementary Teacher Preparation (pending state approval)	X				
Small Business Management (changed from Certificate of Proficiency pending state approval)			X		
Theater Arts (pending state approval)	X				

(DELETE)

Electronic and Computer Technology		X	X		
Electronics Assembly				X	

GRADUATION REQUIREMENTS

CHANGES TO PAGES 20-21

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

A. LANGUAGE AND RATIONALITY:

1. English Composition

(ADD)

(Title 5 §55063—Effective for all students admitted Fall 2009 or thereafter—completed with a grade of “C” or higher)

English 1A

2. Writing and Critical Thinking

(ADD)

German 2A*, 2B*

Italian 2A*, 2B*

3. Communication and Analytical Thinking

(ADD)

Communication Studies 1, 2B, 10, 11*, 20, 30, 46

Mass Communications 43, 44

C. HUMANITIES

(ADD)

Art 22

Communication Studies 2A, 5

English 25

Film 14, 50, 69

French 2B*

German 2A*, 2B*

Italian 2A*, 2B*

Spanish 2B*

D. SOCIAL AND BEHAVIORAL SCIENCES

(ADD)

Communication Studies 11

Mass Communications 40

* May be used to fulfill one area only.

AMERICAN CULTURES

(ADD)

Communication Studies 11

Psychology-Counseling 4

(Revise)

MATHEMATICS PROFICIENCY:

Proficiency in mathematics must be demonstrated by either 1) Passing the Math Proficiency Test (See Math Division Office, Building 2000 for information) or 2) Passing one of the following courses with a grade of “C” or higher or “P”. When appropriate, the course can simultaneously satisfy other graduation or disciplinary requirements.

Business 16

Electronics and Computer Technology 65

Industrial Technology 74

(Title 5 §55063—Effective for all students admitted Fall 2009 or thereafter—completed with a grade of “C” or higher or “P”)

Mathematics 1, 2, 15, 16, 20, 31, 32, 33, 35, 36, 37, 40,

43, 54, 54L, 55, 55A, 55B, 55L, 57-65, 65B, 65E

Psychology 5

II. ADDITIONAL REQUIREMENTS

(Revise)

1. All requirements for the major must be met *with a grade of “C” or higher or “P”* plus electives to total 60 semester units per §55063, effective for all students admitted Fall 2009 or thereafter.

CHANGES TO PAGES 22-23

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

A. LANGUAGE AND RATIONALITY:

1. English Composition

(ADD)

(Title 5 §55063—Effective for all students admitted Fall 2009 or thereafter—completed with a grade of “C” or higher)

English 1A

2. Communication and Analytical Thinking

(ADD)

Communication Studies 1, 2B, 10, 11*, 20, 30, 46

Mass Communications 43, 44

C. HUMANITIES

(ADD)

Art 22

Communication Studies 2A, 5

English 25

Film 14, 50, 69

French 2B*

German 2A, 2B

Italian 2A*, 2B*

Spanish 2B

D. SOCIAL AND BEHAVIORAL SCIENCES

(AD(RED))

Communication Studies 11

Mass Communications 40

* May be used to fulfill one area only.

AMERICAN CULTURES

(ADD)

Communication Studies 11

Psychology-Counseling 4

(Revise)

MATHEMATICS PROFICIENCY:

Proficiency in mathematics must be demonstrated by either 1) Passing the Math Proficiency Test (See Math Division Office, Building 2000 for information) or 2) Passing one of the following courses with a grade of “C” or higher or “P”. When appropriate, the course can simultaneously satisfy other graduation or disciplinary requirements.

Business 16

Electronics and Computer Technology 65

Industrial Technology 74

(Title 5 §55063—Effective for all students admitted Fall 2009 or thereafter—completed with a grade of “C” or higher or “P”)

Mathematics 1, 2, 15, 16, 20, 31, 32, 33, 35, 36, 37, 40,

43, 54, 54L, 55, 55A, 55B, 55L, 57-65, 65B, 65E

Psychology 5

II. ADDITIONAL REQUIREMENTS

(Revise)

1. All requirements for the major must be met *with a grade of "C" or higher or "D" plus electives to total 60 semester units per \$55063, effective for all students admitted Fall 2009 or thereafter.*

CHANGES TO PAGE 29

TRANSCRIPTS FROM OTHER COLLEGES AND UNIVERSITIES

Any student enrolled at Chabot College who has academic credit for courses taken at other accredited colleges/universities must submit official transcripts of that work to the Admissions and Records Office. Official transcripts are defined as

academic records that are sent from other institutions to Chabot. They can be hand carried by the student, but must be unopened (in the sealed envelope of the institution). If there is evidence that the transcripts have been opened, the student will be requested to have the former school mail transcripts directly to Chabot.

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

(PARAGRAPH CORRECTED)

Official transcripts are required for the following academic transactions:

1. AA/AS degree evaluations
2. Academic Renewal petitions

3. Financial Aid student education plans
4. Certification of CSU/GE or IGETC.

(REVISED)

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

Students may enroll in Army or Air Force R.O.T.C. Programs at the University of California, Berkeley, while attending Chabot College full-time. The Air Force ROTC is offered through the Aerospace Studies department at U.C. Berkeley. Scholarships (including tuition, book allowance, and stipend) are available for qualified students. Students may enroll and attend one course per semester at the U.C. Berkeley campus at no cost. Upon completion of the program and granting of 4-year degree, students will commission as Second Lieutenants in the United States Air Force. To be eligible for AFROTC, applicant should be a full time student and meet additional fitness, GPA, testing, and other requirements. Interested students, please visit the department website: <http://airforcerotc.berkeley.edu>, call 510-642-3572, or email airforce@berkeley.edu. For Army ROTC information please contact the Department of Military Science at U.C. Berkeley 14th Bridgade, Western Region, 173 Hearst Gym, # 4440 at (510) 6423-3374.

CHANGES TO PAGES 31-32

(REVISED)

**COLLEGE BOARD ADVANCED PLACEMENT (AP)
EXAMINATION CREDITS
CHABOT COLLEGE AA/AS GE, CSU/GE,
PREREQUISITES**

AP Examination	AP Score	Chabot Equivalent:	Prerequisite Met For the Following Course(s)	Chabot AA/AS Applicability (Units/GE Area)	CSU/GE
CALCULUS AB			(ADD) Math 15		
COMPUTER SCIENCE A	3, 4, 5	Computer Science 14	Computer Science 15 Computer Science 21	4 units Satisfites Area A (C.A.T.)	n/a
COMPUTER SCIENCE AB	3, 4, 5	Computer Science 14 and 19A	Computer Science 15 Computer Science 19B Computer Science 20J Computer Science 21 partially satisfies Computer Science 94	8 units Satisfites Area A (C.A.T.)	n/a

CHANGES TO PAGE 42

(REVISED)

REPEATING A COURSE

The college recognizes that the most recent completion of a course should most accurately reflect a student's academic progress; thus, students may repeat for credit those courses taken for which grades of D, F, or NP were received.

NOTE: Except as provided in the catalog for specific courses or in cases of extenuating circumstances, a student, by state law, is limited to TWO ATTEMPTS to repeat a course for the purpose of raising a substandard grade (D, F, or NP).

CHANGES TO PAGE 55

GRADE CHANGE DEADLINE PERIOD

(DELETE)

Original copies of the instructor grade reports will be retired to microfilm after a five-year retention period.

CHANGES TO PAGE 70

(REMOVE ARTICULATION INFORMATION)

CALIFORNIA ARTICULATION NUMBER (CAN) SYSTEM—The CAN system is no longer in effect starting Fall 2009. All references to CAN numbers have been removed from the Catalog.

CHANGES TO PAGES 72-74

ANTHROPOLOGY (ANTH)

(REVISED TITLE)

1 BIOLOGICAL/PHYSICAL ANTHROPOLOGY 3 UNITS

(REVISED TITLE)

1L BIOLOGICAL/PHYSICAL ANTHROPOLOGY LABORATORY 1 UNIT

(REVISED CATALOGED DESCRIPTION)

5 CULTURES OF THE U.S IN GLOBAL PERSPECTIVE 3 UNITS
Issues relevant to understanding constructs of race, class, gender and culture in U.S. society from a global perspective. Factors affecting at least three major U.S. cultural communities (such as African American, Asian American, Latino American and others) including impacts of globalization, patterns of migration, permeability of cultural communities in the U.S., the cultural politics of identity and inclusion and exclusion, and other factors influencing modern U.S. society. 3 hours. Transfer: CSU; UC; CSU/GE: D1, D3; IGETC: Area 4A; AA/AS; AC.

ARCHITECTURE (ARCH)

ARCHITECTURE

(REVISED PROGRAM INFORMATION)

TRANSFER PREPARATION

ASSOCIATE IN ARTS DEGREE

ASSOCIATE IN SCIENCE DEGREE

In all programs, change Architecture 31A and 32A to Digital Media 31A and 32A.

(REVISED PREREQUISITE)

8A FUNDAMENTALS OF ARCHITECTURAL DESIGN I 4 UNITS
... Prerequisite: Architecture 2B, Digital Media 31A, 332A, and Architecture/Art/Interior Design/Photography 33 (*all completed with a grade of "C" or higher*). . .

CHANGES TO PAGES 76-79

ART (ART)

(REVISED CATALOG DESCRIPTION)

10 DESIGN AND MATERIALS 3 UNITS

Introduction to the use of basic elements and principles of two-dimensional and three-dimensional design, awareness of the creative process both for viewer and designer. Analysis of student and master works through oral and written critiques. Study design in historical, social, and multicultural contexts. 2 hours lecture, 4 hours studio. Transfer: CSU; UC; CSU/GE: C1; AA/AS.

(DELETE)

19 METAL SCULPTURE 3 UNITS

(REVISED TRANSFER INFORMATION)

21 INDIVIDUAL PROJECTS IN SCULPTURE 3 UNITS

(*May be repeated 3 times*)

Projects in Sculpture for intermediate to advanced students. Building on previous knowledge and skills acquired from previous work, students will produce artwork that expresses their individual styles. Prerequisite: Art 17 (*completed with a grade "C" or higher*). 2 hours lecture, 4 hours studio. Transfer: CSU.

(NEW COURSE)

**22 METAL SCULPTURE—
LOST WAX BRONZE CASTING 3 UNITS**

(*May be repeated 3 times*)

Comprehensive introduction to various metal sculpture processes. Mold-making techniques for casing bronze, aluminum, as well as basic welding. Emphasis on 3-dimensional design quality, craftsmanship, and subject matter, with research in the history of traditional and contemporary sculpture. 2 hours lecture, 4 hours studio. Transfer: CSU; AA/AS.

(REVISED TRANSFER INFORMATION)

56 GRAPHIC DESIGN I 3 UNITS

Introduction to the field of graphic design and the use of typography. Field trips to explore industry related occupations. Assignments include creating graphic designs and advertising designs. 2 hours lecture, 4 hours studio. Transfer: CSU.
AA/AS.

(DELETE ADVISORY STATEMENT)

61 ILLUSTRATION 3 UNITS

Creation and execution of conceptual ideas in illustration. Includes a variety of mediums and contemporary application styles. Emphasis on skills in draftsmanship, craftsmanship and presentation. 2 hours lecture, 4 hours laboratory. Transfer: CSU.

ART HISTORY (ARTH)

(REVISED TITLE, CATALOG DESCRIPTION, HOURS AND UNITS)

50 MUSEUM AND GALLERY TECHNIQUES 3 UNIT

(May be repeated 3 times)

Learn the display of visual art within a museum/gallery space. 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, CATALOG DESCRIPTION)

51 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 ART6; may not receive credit if ART 6 has been completed.) 3 hours lecture, 5 hours laboratory. Transfer: CSU; CSU/GE: C1; AA/AS.

(DELETE)

52 ART GALLERY III: PRACTICUM 1 UNIT

CHANGES TO PAGES 83-86

AUTOMOTIVE TECHNOLOGY (ATEC)

(REVISED TO INCLUDE 2007 UPDATES)

68 CALIFORNIA BAR BASIC AND ADVANCED CLEAN AIR CAR COURSE 5 UNITS

(May be repeated 3 times)

Motor vehicle emission inspection and maintenance. Includes the Bureau of Automotive Repair (BAR) requirements for the Basic Clean Air Car Course (BCACC) and the Advanced Clean Air Car Course (ACACC). The BCACC includes BAR regulations, Smog Check test procedures, an overview of emissions control devices, and current OBD-II requirements and 2007 updates. The ACACC includes the Dyno Transition and Advanced Emissions Diagnosis requirements. Required for eligibility to take the State Licensing exam at completion of the course: one year trade experience in emissions/tune up, or nine semester units (13 quarter units) in Automotive Technology, or 180 hours at an accredited automotive school. Automotive Service Excellence (ASE) certification in the Electrical (A6), Engine Performance (A8), and Advanced Engine Performance (L1) also required in order to take the State Exam. The BAR A6, A8, and L1 ASE alternative courses are not included in this course. 4 hours lecture, 4 hours laboratory.

BEHAVIORAL SCIENCE

BEHAVIORAL SCIENCE (GENERAL)

ASSOCIATE IN ARTS DEGREE

(PSYCHOLOGY EXCEPTION REMOVED)

SOPHOMORE YEAR FALL SPRING

Courses from the following list for a total of 9

Anthropology
Psychology
Sociology

BIOLOGICAL SCIENCES

BIOLOGY (BIOL)

(REVISED PREREQUISITE)

2 PRINCIPLES OF CELL/MOLECULAR BIOLOGY AND GENETICS 5 UNITS

Principles of the structure and function of biological molecules, viruses, prokaryotic, and eukaryotic cells with emphasis on homeostasis, cell reproduction and its controls, molecular and transmission genetics, control of gene expression and interactions, genetic control of pattern formation in development, and cell metabolism. Prerequisite: Biology 4 or 6 and Chemistry 1A or equivalent and Mathematics 55 or equivalent (*all completed with a grade of "C" or higher*). Strongly recommended: eligibility for English 1A. Intended for biological sciences majors. 3 hours lecture, 6 hours laboratory. Transfer: CSU; CSU/GE: B2, B3; AA/AS.

(REVISED PREREQUISITE)

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, taxonomy, and systematics. 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.

(REVISED PREREQUISITE)

6 PRINCIPLES OF PLANT BIOLOGY AND ECOLOGY 4 UNITS

Principles of the diversity, structure and function of plants, autotrophic protists, and bacteria with emphasis on cell reproduction, alternation of generations, homeostasis, development, phylogeny, taxonomy, and systematics. Principles of ecology including conservation biology. Intended for biological sciences majors. Prerequisite: Mathematics 55 or equivalent (*completed with a grade of "C" or higher*). Strongly recommended: eligibility for English 1A. 3 hours lecture, 3 hours laboratory. Transfer: CSU; CSU/GE: B2, B3; AA/AS.

PHYSIOLOGY (PHSI)

(REVISED PREREQUISITE)

2 PATHOPHYSIOLOGY 3 UNITS

Pathophysiological processes in selected disease states in the following systems of the human body; endocrine, renal, circulatory, respiratory,

gastrointestinal, musculoskeletal, integumentary, and neurological. Purpose and results of supporting laboratory, radiological, and other appropriate diagnostic studies used in confirming the presence or absence of the selected disease states. Critical thinking exercises. Prerequisites: Satisfactory completion of Human Physiology 1 and Microbiology 1 (or equivalent) and satisfactory completion of (or concurrent enrollment in) Nursing 70 and possession of a valid California LVN license, or possession of a valid California RN license, or satisfactory completion of all required nursing courses in the first year of the nursing curriculum and concurrent enrollment in the second semester of the nursing program. 3 hours lecture. Transfer: CSU.

(REVISED CATALOG DESCRIPTION, PREREQUISITE, HOURS)
2L PHYSICAL ASSESSMENTS ½–1 UNIT
 Advanced techniques utilized in developing and improving physical assessment skills in the clinical setting. Focus is on assessing the status of neurological, cardiac, peripheral vascular, thoracic, musculoskeletal, integumentary, and abdominal systems and breast and testicular examination. The use of data obtained from assessment interviews, subjective and objective assessments such as laboratory and diagnostic tests (respiratory, arterial blood gas analyses, pulse oximetry, and basic cardiac dysrhythmia interpretation) is integrated. Prerequisites: Satisfactory completion of Human Physiology 1 and Microbiology 1 (or equivalent) and: satisfactory completion of all required courses in the first semester of the nursing program and concurrent enrollment in Nursing 59 or 60A, or satisfactory completion of Nursing 70, or possession of a valid California RN license. 1½–3 hours laboratory. Transfer: CSU.

CHANGES TO PAGES 87-92

BUSINESS (BUS)

(Other Business-related programs appear under the headings of Computer Application Systems and Real Estate.)

DEGREE:

AS—ACCOUNTING

AA—BUSINESS ADMINISTRATION

AS—BUSINESS

AS—RETAIL MANAGEMENT

CERTIFICATE OF ACHIEVEMENT:

ACCOUNTING TECHNICIAN

BOOKKEEPING

(PENDING STATE APPROVAL)

BUSINESS—TRANSFER

(PENDING STATE APPROVAL)

HEALTH CARE MANAGEMENT

(PENDING STATE APPROVAL)

HUMAN RESOURCES ASSISTANT

(PENDING STATE APPROVAL)

MANAGEMENT

MARKETING

RETAIL MANAGEMENT

SMALL BUSINESS MANAGEMENT

(REVISED DEGREE)

ACCOUNTING

ASSOCIATE IN SCIENCE DEGREE

Chabot offers three programs in Accounting: certificate in Bookkeeping, certificate in Accounting Technician, and AS degree in Accounting. This degree is the highest level of the accounting program at Chabot that requires the most time and intellectual commitment. It should be obtained after you complete the certificate in Accounting Technician. The degree prepares you for entry-level positions within accounts receivable and accounts payable departments, payroll units, income tax firms, and financial services organizations. You will be able to identify, analyze, summarize, communicate, record and interpret business transactions and financial statements. You will learn commercial and customized accounting software and spreadsheets and you will apply the skills via intensive accounting applications.

You will study professional and ethical behavioral case studies for business, as well as attain oral and written communication skills that are necessary for success. Technical courses in accounting, taxes, and payroll with commercial software will allow you to seek advanced placement in accounting or information systems departments. With the accounting degree, jobs are available in just about every corporate business and non-profit organization.

FRESHMAN YEAR	FALL	SPRING
Business 1A* (Financial Accounting)	4	
Business 12 (Introduction to Business)	3	
Business 16 (Business Mathematics)	3	
Business 1B (Managerial Accounting)		4
Business 93 (QuickBooks)		2
Computer Application Systems 72D (Introduction to Microsoft Word®)		1
Computer Application Systems 72E (Introduction to Microsoft Excel®)		1
Computer Application Systems 72G (Introduction to Microsoft Access®)		1
SOPHOMORE YEAR		
	FALL	SPRING
Business 10 (Business Law)	4	
Business 3 (Income Tax Accounting)	4	
Business 92 (Excel Spreadsheets for Accounting)		2
Option**		9
Total		38

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
- Accounting GE Requirement 3
- Complete a minimum of 3 units*
- Business 14 (Business Communications)

Total minimum units required 60

** Business 7 (Accounting for Small Business) is strongly recommended before taking Business 1A.*

- ** *Select any six units from Option I:*
- Business 2 (Intermediate Accounting) 3 units
- Business 4 (Cost Accounting) 3 units
- Business 8 (Payroll Accounting) 3 units

- Select any three units from Option II:*
- Business 43 (Personal Financial Planning) 3 units
- Business 44 (Introduction to Investments) 4 units

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.

BUSINESS

ASSOCIATE IN SCIENCE DEGREE

(DESCRIPTION ADDED)

This program intends to prepare students for new employment or promotions in the fields of management, supervision, marketing, finance, international business, or other areas of business administration. While all classes in the program transfer to four-year universities at least as electives, the program is not intended to prepare a student for transfer. If your main goal is transfer to a four-year school, consider completing the AA in Business Administration instead.

Emphasis 2 - Management

Select a minimum of 6 units from the following options:

- (ADD)
- Business 50N (Dealing with Difficult People)..... 1 unit
- Business 50P (Quality Customer Service) 1 unit

Emphasis 3 - Marketing

Select a minimum of 6 units from the following options:

- (ADD)
- Business 50N (Dealing with Difficult People)..... 1 unit
- Business 50P (Quality Customer Service) 1 unit

(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 35 (Statistics for Business Majors) or
Mathematics 43 (Introduction to Probability
and Statistics) 4-5
- Computer Application Systems 50 (Introduction
to Computer Application Systems) or
Computer Application Systems 8
(Computer Literacy) or Computer Science 8
(Computer Literacy) 3
- Total 31-34**

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

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.

RETAIL MANAGEMENT

ASSOCIATE IN SCIENCE DEGREE

(DESCRIPTION ADDED)

This program should be completed after a student earns a certificate in Retail Management. All major class requirements are a part of that certificate. To earn this degree, a student will complete additional General Education classes and possible electives to earn a minimum total of 60 units. The program was developed in accordance with the Western Association of Food Chains' Retail Management Certificate Program, a program that has been fully endorsed by the Western Association of Food Chains and its member companies. The certificate's curriculum was developed out of a collaborative effort between several industry and college professionals and encompasses several business essentials, including the "soft skills" of management and communication required for career success in the retail industry.

Although the program was developed by the food retail industry, its completion will help students to acquire necessary knowledge and skills to manage retail stores of any kind.

(REVISED FRESHMAN COURSES)

FRESHMAN YEAR FALL SPRING

- Business 1A (Financial Accounting) or
Business 7 (Accounting for Small Business) 3-4
- Business 15 (Business English) or
English 70 (Report Writing) 3
- Business 16 (Business Mathematics) 3

(REVISED CERTIFICATE)

ACCOUNTING TECHNICIAN

CERTIFICATE OF ACHIEVEMENT

The Accounting Technician certificate targets individuals that want to find entry-level accounting positions within accounts receivable and accounts payable departments,

payroll units, income tax firms, or financial services organizations. Students learn the theory and practice of Generally Accepted Accounting Principles (GAAP), preparation of payroll documents, individual and business tax forms, basics of written and oral business communication, and accounting and payroll software. With the certificate in Accounting Technician, jobs are available in just about every corporate business and non-profit organization.

CORE COURSES	FALL	SPRING
Business 1A* (Financial Accounting)	4	
Business 8 (Payroll Accounting)	3	
Business 14 (Business Communications)	3	
Computer Application Systems 72D (Introduction to Microsoft Word®)	1	
Computer Application Systems 72E (Introduction to Microsoft Excel®)	1	
Computer Application Systems 72G (Introduction to Microsoft Access®)	1	
Business 1B (Managerial Accounting)		4
Business 3 (Income Tax Accounting)		4
Business 92 (Excel Spreadsheets for Accounting)		2
Business 93 (QuickBooks)		2
Total		25

*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.

(CHANGE FROM CERTIFICATE TO CERTIFICATE OF ACHIEVEMENT)

BOOKKEEPING
CERTIFICATE OF ACHIEVEMENT
(PENDING STATE APPROVAL)

(REVISED)

This program targets individuals that want to quickly enter the workforce. You will be employed in entry-level positions as bookkeepers, payroll clerks, and income tax clerks working for small businesses, including small accounting/taxation firms. Students learn the theory of double-entry bookkeeping, the practice of journals and ledgers, preparation of payroll documents, tax forms, and reconciliation of bank statements. In addition, student will become familiar with basic computer applications (Excel, Word, and Access) and accounting software (QuickBooks and Excel).

CORE COURSES	FALL	SPRING
Business 7 (Accounting for Small Business)	3	
Computer Application Systems 72D (Introduction to Microsoft Word®)	1	
Computer Application Systems 72E (Introduction to Microsoft Excel®)	1	
Computer Application Systems 72G (Introduction to Microsoft Access®)	1	
Computer Application Systems 72J (10-Key)	1	
Business 93 (QuickBooks)	2	
Business 1A (Financial Accounting) or Business 3 (Income Tax Accounting)		4
Business 8 (Payroll Accounting)		3
Business 92 (Excel Spreadsheets for Accounting)		2
Total		18

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.

(NEW CERTIFICATE)

BUSINESS—TRANSFER
CERTIFICATE OF ACHIEVEMENT
(PENDING STATE APPROVAL)

This certificate is developed to prepare students for further study of business. All courses within the certificate are required for the AA in Business Administration. The curriculum also completes more than half of the undergraduate business major requirements for transfer should a student decide to transfer prior to completing all the requirements for the Chabot associate in arts degree in Business Administration; or decide to complete lower division general education requirements and transfer to a four-year institution at a later time.

CORE COURSES	FALL	SPRING
Business 1A (Financial Accounting)*	4	
Business 12 (Introduction to Business)	3	
Economics 1 (Principles of Microeconomics) or Economics 2 (Principles of Macroeconomics) or Computer Application Systems 50 (Introduction to Computer Application Systems) or Computer Application Systems 8 (Computer Literacy) or Computer Science 8 (Computer Literacy)		3
Business 1B (Managerial Accounting)		4
Business 10 (Business Law)		4
Total		18

*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.

(NEW CERTIFICATE)

HEALTH CARE MANAGEMENT
CERTIFICATE OF ACHIEVEMENT
(PENDING STATE APPROVAL)

Chabot's Health Care Management program is the only program of its type among community colleges in the Bay Area. The program is specifically designed for those currently working in any health care position that would like to advance into management. The curriculum provides an introduction to key management and human resource concepts; law, finance, and leadership courses focused on the health care organization; and the development of communication skills required for management success. All courses in this certificate are offered online.

CORE COURSES	FALL	SPRING
Business 22 (Introduction to Management)	3	
Business 71 (Health Care Law)	3	
Business 14 (Business Communications)	3	
Business 21 (Human Resource Management)		3
Business 70 (Health Care Financial Management)		3

Business 72 (Leadership of Health Care Organizations)	3
Total	18

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.

(NEW CERTIFICATE)

HUMAN RESOURCES ASSISTANT

CERTIFICATE OF ACHIEVEMENT

(PENDING STATE APPROVAL)

Chabot's Human Resources Assistant program is the only program of its type among community colleges in the Bay Area. The program is specifically designed and focused to prepare you for an exciting entry-level career in human resources for profit, non-profit, or government organizations. You will perform paraprofessional administrative support work in a human resources area.

CORE COURSES	FALL	SPRING
Business 7 (Accounting for Small Business)	3	
Business 21 (Human Resource Management)	3	
Computer Application Systems 72D (Introduction to Microsoft Word®)	1	
Computer Application Systems 72E (Introduction to Microsoft Excel®)	1	
Computer Application Systems 72F (Introduction to Microsoft PowerPoint®)	1	
Computer Application Systems 72G (Introduction to Microsoft Access®)	1	
Business 8 (Payroll Accounting)	3	
Business 14 (Business Communications)	3	
Business 22 (Introduction to Management) or Business 28 (Human Relations in the Workplace)	3	
Computer Application Systems 55 (Microsoft Office® Integration)	3	
Total		22

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.

(REVISED CERTIFICATE)

MANAGEMENT

CERTIFICATE OF ACHIEVEMENT

(DESCRIPTION ADDED)

Chabot's Business Management programs will provide you with the people skills and business knowledge to succeed and advance in for-profit or non-profit organizations. Graduates of the program have secured new positions or gained promotions to general managers, supervisors, assistant HR managers, office managers, retail store managers, sales managers, distribution managers, business owners, production supervisors, training coordinators, recruiters, buyers, and purchasing agents.

The certificate may be completed either on campus or fully online. All classes within the program will also apply toward an AS degree in Business, Marketing emphasis.

Select a minimum of 6 units from the following options:

(ADD)

Business 50N (Dealing with Difficult People)	1 unit
Business 50P (Quality Customer Service)	1 unit

(REVISED CERTIFICATE)

MARKETING

CERTIFICATE OF ACHIEVEMENT

CORE COURSES	FALL	SPRING
Business 12 (Introduction to Business)	3	
Business 14 (Business Communications)	3	
Business 36 (Introduction to Marketing)	3	
Business 1A (Financial Accounting) or Business 7 (Accounting for Small Business)	3-4	
Business 34 (Introduction to Advertising)	3	
Option*	6	
Total		21-22

* Select a minimum of six units from the following

(ADD)

Business 50N (Dealing with Difficult People)	1 unit
Business 50P (Quality Customer Service)	1 unit

(REVISED CERTIFICATE)

RETAIL MANAGEMENT

CERTIFICATE OF ACHIEVEMENT

This certificate is developed in accordance with the Western Association of Food Chains' *W AFC Retail Management Certificate Program*, a program that has been fully endorsed by the Western Association of Food Chains and its member companies. The certificate's curriculum was developed out of a collaborative effort between several industry and college professionals and encompasses several business essentials, including the "soft skills" of management and communication required for career success in the retail industry.

Although the program was developed by the food retail industry, its completion will help students to acquire necessary knowledge and skills to manage retail stores of any kind.

CORE COURSES	FALL	SPRING
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(REVISED TO INCLUDE BUSINESS 15)

Business 15 (Business English) or English 70 (Report Writing)	3
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(CHANGED FROM CERTIFICATE OF PROFICIENCY; REVISED)

SMALL BUSINESS MANAGEMENT

CERTIFICATE OF ACHIEVEMENT

CORE COURSES	FALL	SPRING
Business 26 (Small Business Management)	3	
Business 27 (Law for Small Businesses) or Business 10 (Business Law)	3-4	
Business 36 (Introduction to Marketing)	3	
Business 7 (Accounting for Small Business)	3	
Business 93 (QuickBooks)	2	
Option*	4	
Total		18-19

* Option

Select a minimum of **four** units from the following options:

(DELETE)

Business 10 (Business Law) 4 units

(ADD)

Business 50N (Dealing with Difficult People) 1 unit
Business 50P (Quality Customer Service)..... 1 unit

BUSINESS (BUS)

(REVISED PREREQUISITE)

2 INTERMEDIATE ACCOUNTING 3 UNITS

Fundamental accounting standards and concepts, environment, framework, procedure and reporting for assets, liabilities, expenditures, and net income. Prerequisite: Business 1A (*completed with a grade of "C" or higher*). 3 hours. Transfer: CSU.

(NEW COURSE)

11 GOVERNMENTAL AND NONPROFIT ACCOUNTING 3 UNITS

A study of accounting, budgeting, auditing, fiscal procedures and financial records of governmental agencies such as state, county and municipal governments, as well as universities and colleges, hospitals, and certain nonprofit organizations. Strongly recommended: Business 1A or Business 7 or equivalent. 3 hours. Transfer: CSU.

(REVISED PREREQUISITE)

14 BUSINESS COMMUNICATIONS 3 UNITS

Theory and application of written and oral communications in a professional business environment: organization of messages, editing for tone and polish, presentation techniques, meeting management, job search communications. Strongly recommended: Eligibility for English 1A. 3 hours lecture, 1 hour laboratory. Transfer: CSU.

(RENAMED AND REVISED)

15 BUSINESS ENGLISH 3 UNITS

Study of the English language from a business perspective, including grammar, punctuation, spelling, business vocabulary, and basic business document preparation. Strongly recommended: Eligibility for English 101B. 3 hours lecture, 1 hour laboratory. Transfer: CSU.

(DELETE)

24 LEADERSHIP ACTIVITY 1 UNIT

(RENUMBERED FROM BUS 81 AND REVISED)

44 INTRODUCTION TO INVESTMENTS 4 UNITS

Application of investment principles and guidelines, including the various types of investments and asset classes. Securities markets, individual portfolio planning, basic risk and return considerations and basic investment alternatives, fundamental analysis, and a general overview of technical analysis. The course covers an overview of the corporate bond market, government securities, valuation of fixed-income securities, and investment companies. Course topics include basic calculations of the present and future time value of money and basic financial ratios. Strongly recommended: eligibility for Mathematics 65. (May not receive credit if Business 81 has been completed.) 4 hours. Transfer: CSU.

(REPEATABILITY ADDED)

50C INTERVIEWING FOR SUCCESS 1 UNIT

(May be repeated 3 times)

Principles and techniques of successful employment interviews: interview preparation, selling your qualifications, managing difficult qualifications, following up on the interview. 1 hour. Transfer: CSU.

(REPEATABILITY ADDED)

50D RESUMES AND JOB APPLICATION LETTERS 1 UNIT

(May be repeated 3 times)

Research and preparation of persuasive employment search documents, including company research, self-assessment, document composition and format. Includes resumes, job application letters, and follow up communications. 1 hour. Transfer: CSU.

(REPEATABILITY ADDED)

50F DEVELOPING A BUSINESS PLAN 1 UNIT

(May be repeated 3 times)

Research, analysis and outlining logical and persuasive business plans, including market and competitive analysis, financial plans, management and operational plans, and plan outlines and executive summaries. 1 hour. Transfer: CSU.

(NEW COURSE)

50N DEALING WITH DIFFICULT PEOPLE 1 UNIT

Techniques for resolving and preventing interpersonal conflict in the workplace. 1 hour. Transfer: CSU.

(NEW COURSE)

50P QUALITY CUSTOMER SERVICE 1 UNIT

Techniques and tools to understand customer expectations, and to exceed those expectations. Includes analysis of customer needs, delivery of quality customer service, and dealing with challenging customers to win customer loyalty. 1 hour. Transfer: CSU.

(NEW COURSE)

70 HEALTH CARE FINANCIAL MANAGEMENT 3 UNITS

Overview of finance and accounting in health care organizations, including the financial structure of both for profit and non-profit healthcare organizations. Particular emphasis on private and third party payment systems, reporting requirements, accounts receivable management, budgeting, and resource allocation. Strongly recommended: Business 7. 3 hours. Transfer: CSU.

(NEW COURSE)

71 HEALTH CARE LAW 3 UNITS

Survey of the unique legal issues in health care, including HIPAA (patient privacy laws and regulations), Medicare and Medicaid reimbursement requirements, negligence/malpractice issues, advance directives, and employment law for medical staff and independent contractors. 3 hours. Transfer: CSU.

(NEW COURSE)

72 COURSE LEADERSHIP OF HEALTH CARE ORGANIZATIONS 3 UNITS

Survey of key issues and effective management approaches in health care organizations, including organizational structure and governance, information technology, facilities and guest services, planning, marketing and strategy. 3 hours. Transfer: CSU.

(DELETE)

81 INTRODUCTION TO INVESTMENTS 3 UNITS

(DELETE)

83 COMPUTERIZED ACCOUNTING USING EXCEL AND QUICKBOOKS 2 UNITS

(NEW COURSE)

88 INTRODUCTION TO PROJECT MANAGEMENT 3 UNITS

Project management is the ability to define work efforts in terms of time, budget, and resource needs essential for business planning. Covers the forms, tools, and processes to plan and manage these efforts both efficiently and effectively. Strongly recommended: Computer

Application Systems 50, Computer Application Systems 8, or Computer Science 8 AND Computer Application Systems 54A. 3 hours. Transfer: CSU.

(NEW COURSE)

92 EXCEL SPREADSHEETS FOR ACCOUNTING 2 UNITS

(May be repeated 3 times)

Fundamentals of using electronic spreadsheets (Microsoft Excel) for accounting principles. Focus on solving accounting problems and completing accounting projects with Microsoft Excel. Strongly recommended: Business 1A, Business 7, or equivalent AND Computer Application Systems 54A or Computer Application Systems 72E. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

(NEW COURSE)

93 QUICKBOOKS 2 UNITS

(May be repeated 3 times)

QuickBooks introduces the concepts of bookkeeping/accounting using the theory of double-entry bookkeeping. Learn to use the QuickBooks software for a set up, service business and merchandising business. Setting up chart of accounts, accounts receivable, accounts payable, inventory, payroll and preparation and analysis of financial statements. Strongly recommended: Business 1A, Business 7 or equivalent. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

CHANGES TO PAGE 93

CHEMISTRY (CHEM)

**(REVISED CATALOG DESCRIPTION/
TRANSFER INFORMATION)**

5 QUANTITATIVE ANALYSIS 4 UNITS

Emphasizes the theory and practice of gravimetric, volumetric, potentiometric, spectrophotometric and chromatographic methods of analysis. Focuses on calibration, standardization, method development and validation procedures, sampling and data handling. Intended for chemistry, biochemistry, chemical biology, chemical engineering, pharmacy, biology, molecular biology and microbiology majors. Prerequisite: Chemistry 1B *(completed with a grade of "C" or higher)*. 2 hours lecture, 6 hours laboratory. Transfer: CSU; UC; CSU/GE: B1, B3; IGETC: Area 5A & Lab.

CHANGES TO PAGE 94

CHINESE (CHIN)

(REVISED HOURS/TRANSFER INFORMATION)

1A BEGINNING CHINESE 5 UNITS

Introduction to the Chinese cultures of the world featuring the study and practice of the four language skills (listening, speaking, reading, and writing) of Mandarin Chinese. Strongly recommended: eligibility for English 1A. 5 hours lecture, 1 hour laboratory. Transfer: CSU; CSU/GE: C2; AA/AS.

(REVISED HOURS/TRANSFER INFORMATION)

1B ELEMENTARY CHINESE 5 UNITS

Further study of the Chinese cultures of the world featuring the acquisition of the four language skills (listening, speaking, reading, and writing) of Mandarin Chinese begun in Chinese 1A. Prerequisite: Chinese 1A *(completed with a grade of "C" or higher)*. 5 hours lecture, 1 hour laboratory. Transfer: CSU; CSU/GE: C2; AA/AS. (Corresponds to 2 years high school study.)

(REVISED HOURS AND UNITS)

50A CHINESE CONVERSATION AND CULTURE I 3 UNITS

Development of a basic understanding of spoken Mandarin through pronunciation, vocabulary, and applied grammar. Introduction to the everyday culture of Chinese-speaking people. 3 hours lecture, 1 hour laboratory. Transfer: CSU.

(REVISED HOURS AND UNITS)

50B CHINESE CONVERSATION AND CULTURE II 3 UNITS

Development of an understanding of spoken Mandarin through pronunciation, vocabulary, and applied grammar. Further study of the life and culture of the Chinese-speaking people. Prerequisite: Chinese 50A *(completed with a grade of "C" or higher)*. 3 hours lecture, 1 hour laboratory. Transfer: CSU.

(REVISED HOURS AND UNITS)

50C CHINESE CONVERSATION AND CULTURE III 3 UNITS

Continuation of skills developed in Chinese 50B. Continues to develop an understanding and application of conversational Chinese. Pronunciation, vocabulary, sentences and applied grammar will be covered. Introduces the everyday life and traditional culture of Chinese-speaking people. Prerequisite: Chinese 50B *(completed with a grade of "C" or higher)*. 3 hours lecture, 1 hour laboratory. Transfer: CSU.

(REVISED HOURS AND UNITS)

50D CHINESE CONVERSATION AND CULTURE IV 3 UNITS

Continuation of skills developed in Chinese 50C. Continues to develop and apply conversational Chinese skills. Pronunciation, vocabulary, sentences and applied grammar will be covered. Introduces the daily life and cultural traditions of Chinese-speaking people. Prerequisite: Chinese 50C *(completed with a grade of "C" or higher)*. 3 hours lecture, 1 hour laboratory. Transfer: CSU.

(RETITLED FROM "SPEECH")

COMMUNICATION STUDIES (COMM)

DEGREE:

AA—SPEECH COMMUNICATION

The National Association of Colleges and Employers rated "oral communication" highest among attributes necessary in achieving professional success. More and more businesses and occupations prefer to hire employees who possess strong communication skills. There are opportunities for working in corporate training, consulting, marketing, sales, public relations, human resources, television, radio, telecommunications, and political campaigning. A strong background in communication is also looked upon favorably by four-year universities when evaluating applicants. In addition, effective communication skills can assist in individual development and enhancement of human relations.

SPEECH COMMUNICATION

ASSOCIATE IN ARTS DEGREE

FRESHMAN YEAR FALL SPRING

Communication Studies 1 (Fundamentals of Speech Communication)	3
Communication Studies 10 (Interpersonal Communication)	3
Communication Studies 2A (Oral Interpretation of Literature 1)	3
Communication Studies 46 (Argumentation and Debate)	3

SOPHOMORE YEAR FALL SPRING

Option*	3	3
Total	18	

General Education Courses

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

Total minimum units required	60
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***Option-choose six units from the following:**

Mass Communications 44 (Radio and Television Announcing/Performance)	3 units
Communication Studies 2B (Oral Interpretation of Literature II)	3 units
Communication Studies 3 (Group Communication)	3 units
Communication Studies 5 (Readers' Theater)	3 units
Communication Studies 11 (Intercultural Communication)	3 units
Communication Studies 30 (Elements of Speech)	3 units
Communication Studies 48 (Activities in Forensics) Theater Arts 25 (Fundamentals of Stage Speech)	1-4 units 3 units

COMMUNICATION STUDIES (COMM)

(REVISED TRANSFER INFORMATION)

11 INTERCULTURAL COMMUNICATION 3 UNITS

Intercultural communication with a focus on the analysis and comparisons of message perception and transmission in interactions between people from different cultures. Particular attention to values and meanings reflected in American culture, specifically the crisscrossing dynamics of race, ethnicity, gender, religion and class. Emphasis on practical application of skills for effective communication between people of different domestic and international cultures. (Formerly Speech 11) 3 hours. Transfer: CSU; UC; CSU/GE: D7; IGETC: Area 4G; AA/AS; AC.

(NEW COURSE)

20 PERSUASION AND COMMUNICATION 3 UNITS

Investigation and development of persuasive techniques, strategies, and theories throughout ancient and modern times. Topics will include rhetoric, propaganda, and formal/informal argumentation. Strongly recommended: English 1A and Communication Studies 1. 3 hours. Transfer: CSU; CSU/GE: A1; AA/AS.

CHANGES TO PAGES 99-101

COMPUTER SCIENCE (CSCI)

COMPUTER SCIENCE (GENERAL)

ASSOCIATE IN ARTS OR
ASSOCIATE IN SCIENCE DEGREE

(REVISE GE REQUIREMENTS FOR A.S. DEGREE)

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

(CORRECTS TITLE OF MATHEMATICS 3; CHANGES "SPEECH" TO "COMMUNICATION STUDIES"; DELETES MATHEMATICS 32)

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)
Mathematics 35 (Statistics for Business Majors)
Philosophy 12 (Introduction to Logic)
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)
Physics 11 (Descriptive Physics)

COMPUTER SCIENCE (EMPHASIS IN MATHEMATICS)

ASSOCIATE IN ARTS OR
ASSOCIATE IN SCIENCE DEGREE

(REVISE GE REQUIREMENTS FOR A.S. DEGREE)

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

(CORRECTS TITLE OF MATHEMATICS 3; CHANGES "SPEECH" TO "COMMUNICATION STUDIES")

Complete a minimum of 3 units from

Mathematics 3 (Multivariable Calculus)
Mathematics 4 (Elementary Differential Equations)

Mathematics 6 (Elementary Linear Algebra)
 Mathematics 8 (Discrete Mathematics)
 Mathematics 12 (Introduction to Logic)
 Philosophy 12 (Introduction to Logic)
 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)
 Physics 11 (Descriptive Physics)

COMPUTER SCIENCE (CSCI)

(NEW COURSE)

5 TECHNOLOGY FOR ACADEMIC SUCCESS 1 UNIT

An introduction to computer-based tools and skills supporting academic success: document management, word processing, multimedia presentations, online research, time and information management, communication tools, menu-driven software and help systems. More broadly, how to approach technology as a way to improve the academic experience. 1 hour lecture, 1 hour laboratory. Transfer: CSU; AA/AS.

(NEW COURSE)

6 COMPUTER PROGRAMMING FOR VISUAL THINKERS 3 UNITS

Students work within 2D and 3D virtual worlds to create interactive games, stories and animations. Programs are assembled using a drag-and-drop interface to bypass the abstract syntax rules required by conventional languages. Topics covered include variables, data types, expressions, input/output, logic and control flow, loops, functions, parameters, arrays, recursion, flowcharts, graphics, animation, 3D modeling, and computer game design. 2 hours lecture, 2 hours laboratory. Transfer: CSU; AA/AS.

(REVISED CATALOG DESCRIPTION)

20 INTRODUCTION TO DATA STRUCTURES IN C++ 4 UNITS

Design and implementation of larger projects in C++ using 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 105

DENTAL HYGIENE (DHYG)

(NEW COURSE)

71C ADVANCED PERIODONTAL PROCEDURES 1/2 UNIT

Laboratory and lecture experiences in advanced instrumentation techniques; workshops on recognizing patients' medical needs and their relationship to dental treatment. 6 total hours lecture, 6 total hours laboratory.

CHANGES TO PAGES 107-112

DIGITAL MEDIA (DIGM)

(HOURS CORRECTED)

37 FLASH ACTIONSRIPT 3 UNITS

Introduction to Adobe Flash, an authoring application for creating animation and user interfaces, with emphasis on using the ActionScript scripting language to add interactivity to web pages. Basic object-oriented programming techniques; importing and modifying images, sounds, and video clips; using interface elements such as menus, button groups, sliding controls, and text-input fields to control animation, sound, and other multimedia elements. (Formerly DIGM 34B) 2 hours lecture, 4 hours laboratory. Transfer: CSU.

(HOURS CORRECTED)

38 FLASH ANIMATION 3 UNITS

Introduction to Adobe Flash, an authoring application for creating animation and user interfaces, with emphasis on combining character animation, dialogue, and music into short animated cartoons suitable for broadcast or webcast. (Formerly DIGM 34C) 2 hours lecture, 4 hours laboratory. Transfer: CSU.

EARLY CHILDHOOD DEVELOPMENT (ECD)

DEGREE:

AA-EARLY CHILDHOOD DEVELOPMENT

AA-EARLY CHILDHOOD INTERVENTION

(PENDING STATE APPROVAL)

CERTIFICATE OF ACHIEVEMENT:

EARLY CHILDHOOD DEVELOPMENT (BASIC TEACHER)

EARLY CHILDHOOD INTERVENTION ASSISTANT

(PENDING STATE APPROVAL)

CERTIFICATE OF PROFICIENCY:

EARLY CHILDHOOD DEVELOPMENT (ASSOCIATE TEACHER)

(REVISED PROGRAM DESCRIPTION)

This two-year diploma program leads to an Associate in Arts Degree in Early Childhood Development which includes two Certificates: Early Childhood Development (Basic Teacher) Certificate of Achievement, and Early Childhood Development (Associate Teacher) Certificate of Proficiency. The early childhood development program provides students with a fundamental understanding of the principles of child growth and development, as well

as experience in the application of these principles. The early childhood development courses and programs are designed to prepare students for employment working with young children. A broad range of employment opportunities are available by fulfilling the various certificate and degree requirements listed on the following pages. Completion of the appropriate courses or programs will allow employment in state supported or private programs as Associate Teacher, Teacher, Master Teacher, or Director of an early education and care center. Family child care providers can benefit from courses designed to advance their skills both as providers and entrepreneurs of their own in-home businesses.

Completion of certificate programs dovetails with the California Child Development Permit as well as the requirements of Community Care Licensing for Title 22 programs. The Child Development Permit is required for employees of California State Funded Programs. Title 22 Programs are those that are privately owned and operated either for-profit or non-profit. Many early childhood development units are transferable to four-year institutions for elective credit, but a counselor should be consulted for specific transfer information.

(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 51
(Prenatal to Early Childhood) 3
- Early Childhood Development 54
(Child Health, Safety and Nutrition) 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 Through Observation) 3
- Early Childhood Development 79
(Teaching in a Diverse Society) 3
- Early Childhood Development 90
(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**

(NEW DEGREE)

EARLY CHILDHOOD INTERVENTION

ASSOCIATE IN ARTS DEGREE

(PENDING STATE APPROVAL)

FRESHMAN YEAR FALL SPRING

- Early Childhood Development 50
(Early Childhood Principles and Practices) 3
- Early Childhood Development 51
(Prenatal to Early Childhood 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 Through Observation) 3
- Early Childhood Development 90
(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
- Total** **38**

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 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 51
(Prenatal to Early Childhood) 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 (Supervised Experience)		4
Early Childhood Development 95 (Work Experience)		1
Early Childhood Development 96 (Work Experience Seminar)		1
Option*		3
Total		25

*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 Through Observation)	3 units
Early Childhood Development 79 (Teaching in a Diverse Society)	3 units

(NEW CERTIFICATE)

EARLY CHILDHOOD INTERVENTION ASSISTANT

CERTIFICATE OF ACHIEVEMENT
(PENDING STATE APPROVAL)

FRESHMAN YEAR	FALL	SPRING
Early Childhood Development 50 (Early Childhood Principles and Practices)		3
Early Childhood Development 51 (Prenatal to Early Childhood 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 (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
Total		32

EARLY CHILDHOOD DEVELOPMENT (ECD)

(NEW COURSE)

54 CHILD HEALTH, SAFETY AND NUTRITION 3 UNITS

Aspects of nutrition, health and safety that promote and maintain the health and wellbeing of all children and adults who work with young children. Topics include health and nutritional guidelines, maintaining safe and healthy learning environments, state regulations, policies and

procedures, common childhood illnesses, infectious diseases, school-family collaboration, emergency preparedness and Community CPR, First Aid and injury prevention. 3 hours. Transfer: CSU; CSU/GE: E.

(HOURS CORRECTED)

69 CHILD STUDY THROUGH OBSERVATION 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 51 (completed with a grade of "C" or higher). 3 hours. Transfer: CSU; AA/AS.

(REVISED UNITS/HOURS)

89 ISSUES IN EARLY CHILDHOOD EDUCATION 1-3 UNITS

(May be repeated 3 times)

Series of workshops offered on a variety of topics, which are current and relevant to early childhood professionals. (Specific topic to appear in schedule of classes.) 1-3 hours. Transfer: CSU.

(NEW DISCIPLINE)

ELECTRONIC SYSTEMS TECHNOLOGY (ESYS)

DEGREE:

AS-ELECTRONIC SYSTEMS TECHNOLOGY

(PENDING STATE APPROVAL)

CERTIFICATE OF ACHIEVEMENT: CONSUMER TECHNOLOGY

(PENDING STATE APPROVAL)

INDUSTRIAL ELECTRONIC TECHNOLOGY

(PENDING STATE APPROVAL)

Chabot offers three programs in Electronic Systems Technology: Certificate in Consumer Technology, Certificate in Industrial Electronic Technology, and AS degree in Electronic Systems Technology. This 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
(PENDING STATE APPROVAL)

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 53 (Personal Computer 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 59 (Communication Network 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
Total	32

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)	
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
(PENDING STATE APPROVAL)

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 53 (Personal Computer 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
Total	16

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

INDUSTRIAL ELECTRONIC TECHNOLOGY

CERTIFICATE OF ACHIEVEMENT
(PENDING STATE APPROVAL)

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 55A (Microcontroller Systems)	2
Electronic Systems Technology 55B (Digital Logic Systems)	2
Electronic Systems Technology 56A (Electronic Power Systems I)	2
Electronic Systems Technology 57A (Process Control Systems)	2
Electronic Systems Technology 57B (PLC and Robotic System Components)	2
Total	16

The above listing is a suggested sequence only. Some courses may have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

ELECTRONIC SYSTEMS TECHNOLOGY (ESYS)

(NEW COURSE)

50 INTRODUCTION TO ELECTRONIC SYSTEMS TECHNOLOGY 2 UNITS

Introduction to electronic systems and circuits. Overview of career opportunities and job duties with electronic systems technology. Direct current and alternating current circuits including Ohm's law and Kirchhoff's laws. Measurement and characterization of electronic systems at the block diagram level. Laboratory practice includes the proper use of standard test instruments. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

(NEW COURSE)

51 FABRICATION TECHNIQUES FOR ELECTRONIC SYSTEMS TECHNOLOGY 2 UNITS

Prototype development includes sheet metal, printed circuit board layout and fabrication, connection and soldering techniques, use of hand tools, and machines in electronic fabrication. Use of computer software tools as applied to electronic fabrication. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

(NEW COURSE)

52 ELECTRONIC SYSTEMS MEASUREMENT AND TROUBLESHOOTING 2 UNITS

Measurement and characterization of electronic systems, data collection, and reporting results in industry-accepted formats. Comparing system and component performance to published specifications and developing troubleshooting techniques. Laboratory practice includes the proper use of standard test instruments. Prerequisite: ESYS 50 or equivalent. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

(NEW COURSE)

53 PERSONAL COMPUTER SYSTEMS 2 UNITS

Preparation for the CompTIA A+ Essentials certification exam. Basic computer hardware and operating systems, covering skills such as installation, building, upgrading, repairing, configuring, troubleshooting, optimizing, diagnosing and preventive maintenance, with additional elements of security and softskills. The Essentials Exam validates the basic skills needed by any entry-level service technician regardless of job environment. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

(NEW COURSE)

54 ANALOG CIRCUITS AND SEMICONDUCTOR DEVICES 2 UNITS

Analog circuits, including amplifiers, oscillators, and filters, using single-chip analog devices, operational amplifiers, field-effect transistors, bipolar transistors. Prerequisite: ESYS 52 or equivalent. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

(NEW COURSE)

55A MICROCONTROLLER SYSTEMS 2 UNITS

Architecture, programming, application and troubleshooting of single-chip microcontroller electronic systems. Digital building blocks, number systems, programming in high-level and assembly language. Interfacing the microcontroller for practical applications, measurement techniques and instrumentation, troubleshooting techniques. Prerequisite: ESYS 50 or equivalent. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

(NEW COURSE)

55B DIGITAL LOGIC SYSTEMS 2 UNITS

Architecture, programming, application and troubleshooting of complex programmable logic device (CPLD) electronic systems. Includes programming in VHDL. Digital building blocks, number systems, Boolean algebra, combinational and sequential logic, integrated logic families, digital

circuit measurement techniques and instrumentation, troubleshooting techniques. Prerequisite: ESYS 55A or equivalent. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

(NEW COURSE)

56A ELECTRONIC POWER SYSTEMS I 2 UNITS

Switching power supply systems. Alternative energy systems. Advanced power bus management and control systems. Prerequisite: ESYS 52 or equivalent. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

(NEW COURSE)

56B ELECTRONIC POWER SYSTEMS II 2 UNITS

Power supply transformer, rectifier and filtering circuits. Measurement of line and load regulation, ripple, and efficiency in linear and switching power supply systems. Linear regulation techniques and troubleshooting. Prerequisite: ESYS 56A or equivalent. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

(NEW COURSE)

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: ESYS 50 and ESYS 55A or equivalent. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

(NEW COURSE)

57B PLC AND ROBOTIC SYSTEM COMPONENTS 2 UNITS

Integration of sensors, indicators, controllers and final control elements for Programmable Logic Control and robotic systems. Control loop theory, PID, loop tuning, and control loop troubleshooting. Process control system design and tuning. Prerequisite: ESYS 57A. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

(NEW COURSE)

58 WIRELESS COMMUNICATION SYSTEMS 2 UNITS

Introduction to wireless communications concepts and data communications, including modulation techniques, antenna and wave propagation. Digital data communication fundamentals and digital modulation techniques. Fiber optic and laser technology. Prerequisite: ESYS 52 or equivalent. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

(NEW COURSE)

59 COMMUNICATION NETWORK SYSTEMS 2 UNITS

Introduction to communications concepts, data communications, networking, and internetworking. Includes part, but not all, of the objectives for the Network+ certification exam. Review of major network components: hardware, software, protocols (TCP/IP), topologies, and cabling. Overview of LAN administration, setup, and installation. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

(NEW COURSE)

60 ELECTRONIC SYSTEM ANALYSIS 2 UNITS

Analysis of electronic systems and circuits using modern software tools and mathematical formulae. Reactive circuits, active devices, amplifier, oscillator, and filter circuits. Includes many, but not all, of the objectives for the ETA and ISCET Certified Electronic Technician exam. Prerequisite: ESYS 54 and INDT 74 or equivalent or eligibility for MTH 55. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

(NEW COURSE)

61 ELECTRONIC SYSTEMS PROJECT MANAGEMENT 2 UNITS

Planning, tracking, and completing electronics prototype projects; includes chassis, printed circuit board layout, connection and soldering techniques,

use of hand tools, and machines in electronic fabrication. Use of computer software tools as applied to project management and electronic fabrication. Prerequisite: ESYS 51 and ESYS 54 or equivalent. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

(NEW COURSE)

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. Prerequisite: ESYS 50 or equivalent. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

(PROGRAM ELIMINATION)

ELECTRONICS AND COMPUTER TECHNOLOGY (ELEC)

The Electronics and Computer Technology Program has been eliminated.

ENGINEERING (ENGR)

(NEW DEGREE)

**DEGREE:
AS-ENGINEERING**

The Associate in Science degree is designed to provide the foundation for subsequent transfer to a CSU or UC Engineering program. The core courses listed below fulfill most of the lower division requirements for the majority of CSU and UC engineering majors. The Associate in Science degree, as well as putting students on the path to transfer, ensures that students develop a strong foundation in engineering, mathematics, and the sciences.

Students should note that transfer-course requirements vary among universities, and between majors in the different branches of engineering. Students seeking to transfer with an engineering major are strongly advised to consult with Chabot Counseling. Counselors will assist the student with development of a Student Educational Plan (SEP) that prepares the student for transfer to the desired university in the engineering major of his/her choice. Students are also encouraged to consult the ASSIST webpage (www.assist.org) for more information on engineering transfer-course agreements between Chabot College and the CSU/UC Colleges of Engineering.

ENGINEERING

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 (Engineering Circuit Analysis)	4
Engineering 45 (Materials of Engineering)	3
Physics 4B (General Physics II)	5

Plus One (1) Course from the Following:

Biology 2A* (Principles of Biology I)	5
Chemistry 1B† (General College Chemistry II)	5
Engineering 10 (Introduction to Engineering)	2
Engineering 22‡ (Engineering Design Graphics)	3 (3)
Mathematics 4§ (Elementary Differential Equations) .	3
Mathematics 6§ (Elementary Linear Algebra)	3
Physics 4C (General Physics III)	5
Total	40-43

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)	
Total minimum units required	60

**Bio Engineering, Biomedical Engineering, and Biomechanical Engineering majors should take Biology 2A. †Chemical Engineering and Materials Engineering majors should take Chemistry 1B.*

‡Civil, Industrial, and Mechanical Engineering majors should take Engineering 22.

§Engineering Science majors, and students interested in applied mathematics, should take Mathematics 4 and 6.

Students should note that General Education requirements vary significantly among CSU/UC Colleges of Engineering. In particular, most CSU/UC Engineering programs discourage the use of the IGETC GE pattern in favor of program-specific courses. The GE courses listed above satisfy many, but perhaps not all, of the GE requirements of a specific university engineering program. In these cases students complete any remaining GE courses at the university after transfer.

The above listing is a suggested sequence only. Some courses have prerequisites. Students may take courses in any sequence except where a prerequisite applies.

ENGINEERING (ENGR)

(NEW COURSE)

11 ENGINEERING DESIGN AND ANALYSIS 2 UNITS

An introduction to the engineering design process from a practical and professional perspective. Student teams work on a term-long engineering project that entails the creation of a design for a useful object with moving parts that requires the application of some external power source. Conceptual and Critical/Final design reviews require teams to describe and justify the effectiveness, and likely customer-acceptance, of the design. The student designers: select materials, components, sources of supply; produce detailed parts-lists; create using CAD-tools detailed and dimensioned production and assembly drawings; create formal electrical and fluid-control component interconnection schematics; provide a detailed estimate for the production-cost. When needed students use engineering software tools (such as MATLAB) to assess and predict the kinematical, structural, thermal, electrical, fluid-flow, wear/corrosion, and magnetic performance of the proposed design. Students are encouraged to build from the design plans a form-and-fit mock-up, or if possible a fully functioning prototype. Strongly recommended: Engineering 22. 1 hour lecture, 3 hours laboratory. Transfer: CSU.

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ENGLISH (ENGL)

COMPOSITION & LITERATURE

(NEW COURSE)

25 ASIAN-AMERICAN LITERATURE 3 UNITS

Introduction to literary works of fiction, poetry, drama and the essay that reflect and explore the diversity of the Asian-American experience. Analysis of literature in the context of the historical growth of Asian-American identities with a focus on the 20th century. Strongly recommended: Eligibility for English 1A. 3 hours. Transfer: CSU; CSU/GE: C2; AA/AS.

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ENGLISH AS A SECOND LANGUAGE (ESL)

(REVISED CATALOG DESCRIPTION)

110A REVIEW OF BASIC ENGLISH FOR ESL 6 UNITS

A comprehensive review of the structure of the simple English sentence; short writing assignments; reading fiction and nonfiction; reinforces fluency in reading and writing. 6 hours.

(REVISED TITLE AND PREREQUISITE)

110B INTERMEDIATE READING AND WRITING 6 UNITS

Logical paragraph development; reading both fiction and nonfiction; emphasis on the development of vocabulary and grammatical structures of written English. Prerequisite: A grade of pass in ESL 110A (or eligibility for ESL 110B demonstrated through the ESL Placement Process). 6 hours.

(REVISED TITLE AND PREREQUISITE)

110C HIGH INTERMEDIATE READING AND WRITING 6 UNITS

Expository paragraphs and short essays; fiction and nonfiction reading; emphasis on the development of vocabulary and grammatical structures of written English. Prerequisite: A grade of pass in ESL 110B (or eligibility for ESL 110C demonstrated through the ESL Placement Process). 6 hours.

(REVISED TITLE AND PREREQUISITE)

110D ADVANCED READING AND WRITING 6 UNITS

Expository essays; critical reading; emphasis on advanced development of vocabulary and grammatical structures of written English. Prerequisite: A grade of pass in ESL 110C (or eligibility for ESL 110D demonstrated through the ESL Placement Process). 6 hours.

(REVISED HOURS)

111A PRONUNCIATION 2 UNITS

Oral English with emphasis on strategies for clear pronunciation. 1 hour lecture, 3 hours laboratory.

(REVISED HOURS)

111B ACADEMIC LISTENING AND SPEAKING 2 UNITS

Group and individual practice producing and responding to oral English in the academic environment. 1 hour lecture, 3 hours laboratory.

(REVISED TITLE)

112 ENGLISH GRAMMAR: REVIEW FOR ESL 3 UNITS

Intermediate-level overview of the structures of English grammar. Important grammatical forms including verb tenses, articles, modal auxiliaries, the passive voice, reported speech, adjectival clauses, gerunds, infinitives, and conditional sentences. Strongly recommended: Eligibility for ESL 110C. 3 hours.

(REVISED PREREQUISITE AND HOURS)

114 EDITING FOR THE ADVANCED ESL WRITER 2 UNITS

Use of standard written English to develop personal strategies for self-editing. Designed to ease the transition between explicit ESL instruction and the fluency demands of mainstream English curriculum. Prerequisite: A grade of pass in ESL 110D or eligibility for English 101A demonstrated through the English Placement Process. 2 hours.

(REVISED HOURS AND UNITS)

128 FACULTY-STUDENT TUTORIAL-ESL ½-1 UNIT

(May be repeated 2 times)

Self-paced, individualized instruction in academic English oral and written communication skills for students who speak English as a second language. Focus on writing, reading, listening, and speaking skills needed in college courses. 1½-3 hours laboratory.

FILM (FILM)

(NEW COURSE)

9 FILM PRODUCTION COLLOQUIA 1 UNIT

(May be repeated 3 times)

Explorations in CV film production and presentation. Analysis of skills acquired through production assistance including research, budgets, permits, clearances, releases, location scouting, film crewing, post-production, marketing, screenings, festivals, or some combination of these. 1 hour lecture, 1 hour TBA. Transfer: CSU.

(NEW COURSE)

14 FILM PRE-PRODUCTION 3 UNITS

The pre-production process for film, as well as traditional and contemporary forms of visual media, including key participants and their job functions. Proposal pitches, log lines, script formats, and fundamentals of story, dialogue, and character development for pre-production planning. Examination of the roles and influence of audiences, clients, distributors, and studio executives on project financing and the script development phase. Strongly recommended: Eligibility for English 1A. 3 hours. Transfer: CSU; AA/AS.

(REVISED TRANSFER INFORMATION)

50 BEGINNING FILM PRODUCTION 3 UNITS

(May be repeated 3 times)

Introduction to the history and theory of filmmaking as an artistic medium through lectures, screenings, demonstrations, and hands-on practicum. Critical analysis and appreciation of production elements and development of skills in pre-production planning, digital cinematography, direction of actors, sound design, art direction, and post-production. 3 hours lecture, 1 hour activity. Transfer: CSU; CSU/GE: C1; AA/AS.

(REVISED TRANSFER INFORMATION)

60 DOCUMENTARY FILM 3 UNITS

(May be repeated 3 times)

Introduction to the historical development of documentary film and current techniques of documentary DV filmmaking. Story basics, research, structure, objective/subjective approach, simple shooting setups, interviewing, and rough-cut editing. Strongly Recommended: Film 50. 3 hours lecture, 1 hour activity. Transfer: CSU; CSU/GE: C1; AA/AS.

(NEW COURSE)

89 SPECIAL STUDIES IN FILM 1/2 - 5 UNITS

(May be repeated 3 time)

Individual projects in Digital Video (DV) film production at the intermediate to advanced level. Development of knowledge and skills acquired in previous or current work with emphasis on current projects involving writing, producing, directing, cinematography, sound recording/sound design, lighting, art direction, production design, editing, or some combination of these. Prerequisites: Two of the following courses: Film 14, Film 50, Film 60 *(completed with a grade of "B" or higher)*. 1½ - 5 hours. Transfer: CSU.

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FIRE TECHNOLOGY (FT)

FIRE TECHNOLOGY

ASSOCIATE IN ARTS OR
ASSOCIATE IN SCIENCE DEGREE

(COURSE TITLE/UNIT CHANGE)

SOPHOMORE YEAR FALL SPRING

Fire Technology 91A (Wildland Firefighter-1 (Basic)) 3

Total 22_44**

FIRE TECHNOLOGY

CERTIFICATE OF ACHIEVEMENT

(COURSE TITLE/UNIT CHANGE)

SOPHOMORE YEAR FALL SPRING

Fire Technology 91A (Wildland Firefighter-1 (Basic)) 3

Total 22_44**

FIRE PREVENTION INSPECTOR

ASSOCIATE IN ARTS OR
ASSOCIATE IN SCIENCE DEGREE
AND
CERTIFICATE OF ACHIEVEMENT

(ADD COURSE NUMBER TO INDUSTRIAL TECHNOLOGY)

SOPHOMORE YEAR FALL SPRING

Fire Technology 53 (Fire Behavior Combustion) 3

Fire Technology 56

(Building Construction for Fire Protection) 3

Industrial Technology 74 (Measurements and Calculations) 3

Business 22 (Introduction to Management) 3

Total 24

FIRE TECHNOLOGY (FT)

(REVISED CATALOG DESCRIPTION, UNITS, HOURS)

91A WILDLAND FIREFIGHTER-1 (BASIC) 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, S131 and S190 equivalency under National Wildfire Coordinating Group (NWCG) and meets Cal Fire 69 Hour Wildland Firefighter 1 Basic certification requirements. Course complies with the State Board of Fire Services Wildland Fire Fighting requirements for Firefighter I Certification. Prerequisite: Fire Technology 90C *(completed with a grade of "C" or higher)* or successful completion of a California Accredited Fire Fighter 1 Academy. 2½ hours lecture, 1½ hours laboratory.

NOTE: WORLD LANGUAGES: CHINESE, FRENCH, GERMAN, ITALIAN, JAPANESE, PORTUGUESE, AND SPANISH ARE NOW LISTED ALPHABETICALLY BY LANGUAGE.

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FRENCH (FRNC)

(REVISED CATALOG DESCRIPTION, HOURS)

1A BEGINNING FRENCH 5 UNITS

Introduction to the French-speaking cultures of the world featuring study and practice in the four language skills (listening, speaking, reading, and writing) of French. Strongly recommended: Eligibility for English 1A. 5 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE: C2; AA/AS.

(REVISED CATALOG DESCRIPTION, HOURS)

1B ELEMENTARY FRENCH 5 UNITS

Further study of French-speaking cultures of the world featuring the acquisition of the four language skills (listening, speaking, reading, and writing) of French begun in French 1A. Prerequisite: French 1A (*completed with a grade of "C" or higher*). 5 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE: C2; IGETC: 6A-LOTE; AA/AS. (Corresponds to 2 years high school study.)

(REVISED CATALOG DESCRIPTION, HOURS)

2A INTERMEDIATE FRENCH 4 UNITS

Review of grammar; reading of works of modern authors; practice in conversation and composition. Prerequisite: French 1B (*completed with a grade of "C" or higher*). 4 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE: C2; IGETC: Area 3B, 6A-LOTE; AA/AS.

(REVISED CATALOG DESCRIPTION, HOURS)

2B ADVANCED FRENCH 4 UNITS

Reading of Francophone authors; advanced review of grammar; emphasis on speaking and composition. Prerequisite: French 2A (*completed with a grade of "C" or higher*). 4 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE: C2; IGETC: Area 3B, 6A-LOTE; AA/AS.

(REVISED CATALOG DESCRIPTION, HOURS AND UNITS)

50A FRENCH CONVERSATION AND CULTURE I 3 UNITS

Development of a basic understanding of spoken French through pronunciation, vocabulary, and applied grammar. Introduction to the everyday culture of Francophone people. 3 hours lecture, 1 hour laboratory. Transfer: CSU.

(REVISED CATALOG DESCRIPTION, HOURS AND UNITS)

50B FRENCH CONVERSATION AND CULTURE II 3 UNITS

Development of skills learned in French 50A. Understanding of spoken French through pronunciation, vocabulary, and applied grammar. Further study of the life and culture of the Francophone people. Prerequisite: French 50A (*completed with a grade of "C" or higher*). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

(NEW COURSE)

50C FRENCH CONVERSATION AND CULTURE III 3 UNITS

Development of skills learned in French 50B. Understanding of spoken French through pronunciation, vocabulary, and applied grammar. Further study of the culture and everyday life activities of the Francophone people. Prerequisite: French 50B (*completed with a grade of "C" or higher*). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

(NEW COURSE)

50D FRENCH CONVERSATION AND CULTURE IV 3 UNITS

Development of skills learned in French 50C. Understanding of spoken French through pronunciation, vocabulary, and applied grammar.

Further study of the culture and everyday life activities of the Francophone people. Prerequisite: French 50C (*completed with a grade of "C" or higher*). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

GENERAL STUDIES (GNST)

(NEW COURSE)

1 INTRODUCTION TO ONLINE LEARNING ½ UNIT

Introduction to the Blackboard course management system used in online courses, and an overview of how online courses work. Review of strategies for success as an online student, including time management techniques. ½ hour. Transfer: CSU.

(REVISED CATALOG DESCRIPTION)

11 EXPLORING EDUCATION 3 UNITS

Introduction to the field of teaching and education. Directed observations of elementary, middle, and secondary classrooms. Examination of changing issues in education and their implications on teaching practice and theory. Math and Science teaching methods will be addressed. 2 hours lecture, 3 hours laboratory. Transfer: CSU; UC.

(NEW COURSE)

66 LIFE SKILLS FOR THE ADOLESCENT 3 ½ UNITS

Educational Preparation for life for the young adult. Includes drug and alcohol education, nutrition education, disease prevention, college preparation, basic career goal setting, and risk factor reduction related to the prevention of obesity at an early age. Fitness component involves activity participation in team sports, along with basic fitness education in heart rate monitoring and physical fitness training. Designed for the adolescent learner interested in developing college preparatory skills and life-long learning strategies in the area of health and fitness. 27 total hours lecture, 108 total hours of laboratory. Total weeks = 5.

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GERMAN (GERM)

(REVISED CATALOG DESCRIPTION, HOURS, TRANSFER INFORMATION)

1A BEGINNING GERMAN 5 UNITS

Introduction to the German-speaking cultures of the world featuring the study and practice of the four language skills (listening, speaking, reading, and writing) of German. Strongly recommended: Eligibility for English 1A. 5 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE: C2; AA/AS.

(REVISED CATALOG DESCRIPTION, HOURS TRANSFER INFORMATION)

1B ELEMENTARY GERMAN 5 UNITS

Further study of German-speaking cultures of the world featuring the acquisition of the four language skills (listening, speaking, reading, writing) of German begun in German 1A. Prerequisite: German 1A (*completed with a grade of "C" or higher*). 5 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE: C2; IGETC: 6A-LOTE; AA/AS. (Corresponds to 2 years high school study.)

(NEW COURSE)

2A INTERMEDIATE GERMAN 4 UNITS

Review of grammar; reading of works of modern authors; practice in conversation and composition. Prerequisite: German 1B (*completed with a grade of "C" or higher*). 4 hours lecture, 1 hour laboratory. Transfer: CSU; CSU/GE: C2; AA/AS.

(NEW COURSE)

2B ADVANCED GERMAN 4 UNITS

Reading of German authors; advanced review of grammar; emphasis on speaking and composition. Prerequisite: German 2A (*completed with a grade of "C" or higher*). 4 hours lecture, 1 hour laboratory. Transfer: CSU; CSU/GE: C2; AA/AS.

(REVISED CATALOG DESCRIPTION, HOURS AND UNITS)

50A GERMAN CONVERSATION AND CULTURE I 3 UNITS

Development of a basic understanding of spoken German through pronunciation, vocabulary, and applied grammar. Introduction to the everyday culture of German-speaking people. 3 hours lecture, 1 hour laboratory. Transfer CSU.

(REVISED CATALOG DESCRIPTION, HOURS AND UNITS)

50B GERMAN CONVERSATION AND CULTURE II 3 UNITS

Development of skills learned in German 50A. Understanding of spoken German through pronunciation, vocabulary, and applied grammar. Further study of the life and culture of the German-speaking people. Prerequisite: German 50A (*completed with a grade of "C" or higher*). 3 hours lecture, 1 hour laboratory. Transfer CSU.

CHANGES TO PAGE 129

HISTORY (HIS)

(NEW COURSE)

3 WORLD HISTORY: BEGINNINGS TO 1500 3 UNITS

A survey of world history from the beginning of civilization and ancient cultures to 1500 C.E. Interconnections and divergence among cultures and civilizations in a global context will be emphasized. During the classical period, up to 500 C.E., similarities and differences as civilizations developed will be examined. The postclassical period, 500 to 1500, will look specifically at contact and interaction among peoples. Broader forces that affect civilizations such as trade patterns, migration, nomadism, syncretism, and disease patterns will be studied. 3 hours. Transfer: CSU; CSU/GE: D6.

(NEW COURSE)

4 WORLD HISTORY: 1500 TO THE PRESENT 3 UNITS

A survey of world history from 1500, including the early modern and modern eras. Interconnections and exchange will be emphasized. Similarities and differences among cultures will be examined. Cultural, intellectual, and technological developments and exchange will be explored. Broader forces that affect civilizations such as borderlands, exploration and travel, gender and class will be studied. 3 hours. Transfer: CSU; CSU/GE: D6.

CHANGES TO PAGES 134-135

ITALIAN (ITAL)

(REVISED CATALOG DESCRIPTION, HOURS)

1A BEGINNING ITALIAN 5 UNITS

Introduction to the Italian-speaking cultures of the world featuring the study and practice of the four language skills (listening, speaking, reading, and writing) of Italian. Strongly recommended: Eligibility for English 1A. 5 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE: C2; AA/AS..

(REVISED CATALOG DESCRIPTION, HOURS)

1B ELEMENTARY ITALIAN 5 UNITS

Further study of Italian-speaking cultures of the world featuring the study and practice of the four language skills (listening, speaking, reading, and writing) of Italian begun in Italian 1A. Prerequisite: Italian 1A (*completed with a grade of "C" or higher*). 5 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE: C2; IGETC: 6A-LOTE; AA/AS. (Corresponds to 2 years high school study.)

(NEW COURSE)

2A INTERMEDIATE ITALIAN 4 UNITS

Review of grammar; reading of works of modern authors; practice in conversation and composition. Prerequisite: Italian 1B (*completed with a grade of "C" or higher*). 4 hours lecture, 1 hour laboratory. Transfer: CSU; CSU/GE: C2; AA/AS.

(NEW COURSE)

2B ADVANCED ITALIAN 4 UNITS

Reading of Italian authors; advanced review of grammar; emphasis on speaking and composition. Prerequisite: Italian 2A (*completed with a grade of "C" or higher*). 4 hours lecture, 1 hour laboratory. Transfer: CSU; CSU/GE: C2; AA/AS.

(REVISED TITLE, CATALOG DESCRIPTION, HOURS AND UNITS)

50A ITALIAN CONVERSATION AND CULTURE I 3 UNITS

Development of a basic understanding of spoken Italian through pronunciation, vocabulary, and applied grammar. Introduction to the everyday culture of Italian-speaking people. 3 hours lecture, 1 hour laboratory. Transfer CSU.

(REVISED TITLE, CATALOG DESCRIPTION, HOURS AND UNITS)

50B ITALIAN CONVERSATION AND CULTURE II 3 UNITS

Development of skills learned in Italian 50A. Understanding of spoken Italian through pronunciation, vocabulary, and applied grammar. Further study of the life and culture of the Italian-speaking people. Prerequisite: Italian 50A (*completed with a grade of "C" or higher*). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

JAPANESE (JAPN)

(REVISED CATALOG DESCRIPTION, HOURS)

1A BEGINNING JAPANESE 5 UNITS

Introduction to the Japanese cultures of the world featuring the study and practice of the four language skills (listening, speaking, reading, and writing) of Japanese. Strongly recommended: eligibility for English 1A. 5 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE: C2; AA/AS.

(REVISED CATALOG DESCRIPTION, HOURS)

1B ELEMENTARY JAPANESE 5 UNITS

Further study of Japanese cultures of the world featuring the acquisition of the four language skills (listening, speaking, reading, and writing) of Japanese begun in Japanese 1A. Prerequisite: Japanese 1A (completed with a grade of "C" or higher). 5 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE: C2; IGETC: 6A-LOTE; AA/AS. (Corresponds to 2 years high school study.)

(REVISED TITLE, CATALOG DESCRIPTION, HOURS AND UNITS)

50A JAPANESE CONVERSATION AND CULTURE I 3 UNITS

Development of an understanding of spoken Japanese through pronunciation, vocabulary, and applied grammar. Introduction to the everyday culture of Japanese-speaking people. 3 hours lecture, 1 hour laboratory. Transfer: CSU.

(REVISED TITLE, CATALOG DESCRIPTION, HOURS AND UNITS)

50B JAPANESE CONVERSATION AND CULTURE II 3 UNITS

Development of skills learned in Japanese 50A. Development of an understanding of spoken Japanese through pronunciation, vocabulary, and applied grammar. Further study of the life and culture of Japanese-speaking people. Prerequisite: Japanese 50A (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

(NEW COURSE)

50C JAPANESE CONVERSATION AND CULTURE III 3 UNITS

Continuation of skills developed in Japanese 50B. Continues to develop an understanding and application of conversational Japanese. Pronunciation, vocabulary, sentences and applied grammar will be covered. Introduces the everyday life and culture of Japanese-speaking people. Prerequisite: Japanese 50B (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

(NEW COURSE)

50D JAPANESE CONVERSATION AND CULTURE IV 3 UNITS

Continuation of skills developed in Japanese 50C. Continues to develop and apply conversational Japanese skills. Pronunciation, vocabulary, sentences and applied grammar will be covered. Further study of the everyday life and cultural traditions of Japanese-speaking people. Prerequisite: Japanese 50C (completed with a grade of "C" or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

JOURNALISM

(REVISED DEGREE)

JOURNALISM

ASSOCIATE IN ARTS DEGREE

FRESHMAN YEAR FALL SPRING

Art 40 (Graphic Design Principles)	3
Mass Communications 1 (Journalism: News Writing and Information Gathering)	3
Mass Communications 41 (Introduction to Mass Communications)	3
Mass Communications 2 (Journalism: Investigative News Writing)	3
Mass Communications 14 (Writing and Photography for a Weekly Publication)	1
Photography 50 (Introduction to Photography)	3

SOPHOMORE YEAR FALL SPRING

English 7 (Critical Thinking and Writing Across Disciplines)	3
Mass Communications 3 (Journalism: Magazine and Newspaper Feature Writing)	3
Mass Communications 15 (Publications: Editorial Leadership and Production)	3
Photography 71 (Beginning Photojournalism)	2
Photography 65 (Graphic Techniques)	3
Total	30

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

LIBERAL ARTS

DEGREE:

AA-LIBERAL ARTS

CERTIFICATE OF ACHIEVEMENT:

CALIFORNIA STATE UNIVERSITY

GENERAL EDUCATION-BREADTH (CSUGE-BREADTH)

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

GE UNITS

I. ASSOCIATE IN ARTS DEGREE

(REVISED DESCRIPTION)

Intended for students who are not planning on transferring to a university.
General Education, Graduation and Proficiency Requirements (see pages 20-23) 26

Emphasis 2 - Communication in the English Language and Critical Thinking:

Select a minimum of 18 units from the following Communication in the English Language and Critical Thinking courses. For depth, include a minimum of two courses from a single discipline; for breadth, include courses from at least two disciplines. Courses can be counted toward completion of General Education requirements.

(REVISED OPTIONS)

- Communication Studies 1, 30, 46
- English 4, 7
- History 5
- Math 12
- Philosophy 12

Emphasis 3 - Social and Behavioral Sciences:

Select a minimum of 18 units from the following Social and Behavioral Science courses. For depth, include a minimum of two courses from a single discipline; for breadth, include courses from at least two disciplines. Courses can be counted toward completion of General Education requirements.

(REVISED OPTIONS)

- Administration of Justice **50, 60**
- Anthropology **1, 2, 3, 5, 8, 12**
- Business **17, 36**
- Early Childhood Development **67**
- Economics **1, 2, 5, 10, 12**
- Ethnic Studies **1, 2, 3**
- Geography (excluding physical geography) **2, 3, 5, 12, 20**
- History **1, 2, 7, 8, 12, 19, 20, 21, 22, 25, 27, 44**
- Mass Communications **41**
- Political Science **1, 2, 12, 20, 25, 30, 40**
- Psychology **1, 2, 3, 6, 33**
- Psychology-Counseling **1, 13**
- Sociology **1, 2, 3, 4, 10, 11, 30, 31, 32**

Emphasis 4 - Math and Science: *Select a minimum of 18 units from the following Math and Science courses. For depth, include a minimum of two courses from a single discipline; for breadth, include courses from at least two disciplines. Courses can be counted toward completion of General Education requirements.*

(REVISED OPTIONS)

- Mathematics (beyond the Intermediate Algebra level) **1, 2, 3, 4, 5, 8, 20, 31, 32, 33, 35, 36, 37, 40, 43**
- Anatomy **1**
- Anthropology **1, 1L**
- Astronomy **1, 10, 20, 30 (Lab)**
- Biology **2A, 2B, 5, 10, 20, 25, 31, 40, 50**
- Biotechnology **20, 30**
- Chemistry **1A, 1B, 8, 10, 12A, 12B, 30A, 30B, 31**
- Environmental Studies **10, 11**
- Geography (excluding cultural studies) **1, 1L, 8**
- Geology **1A, 1B, 10, 10L, 21**
- Microbiology **1**
- Physical Science **15**
- Physics **2A, 2B, 4A, 4B, 5, 11**
- Physiology **1**

(NEW CERTIFICATE)

**CALIFORNIA STATE
UNIVERSITY GENERAL
EDUCATION BREADTH
(CSU/GE BREADTH)
CERTIFICATE OF ACHIEVEMENT**

Students transferring to the California State University system have the opportunity to complete their lower division general education requirements at Chabot College. This pattern of general education is typically 39-45 semester units. Earning a CSU/GE Breadth Certificate of Achievement will enable Chabot College to officially acknowledge a significant educational achievement the student has completed at Chabot College. For more detailed course information, consult the "CSU GE Breadth" transfer information page in the catalog or the current FLYER #101 in the Counseling Division. Counselor assistance is advised. **Area A and B/Mathematics need a grade of "C" or higher.**

Complete the required number of units/courses in each category:

- Area A:** Communications in the English
Language 9 semester units
- Area B:** The Physical and Life Sciences and
Mathematics. 9 semester units

- Area C:** Arts, Literature, Philosophy and
Foreign Languages 9 semester units
- Area D:** Human Social, Political and
Economic Institutions and Behavior 9 semester units
- Area E:** Understanding and Self Development . . . 3 semester units
- Area F:** US History, Constitution and
American Ideals 6 semester units *

(* Courses completed in Area F can be counted in Area D)

Total minimum units required 39-45

Earning this Certificate of Achievement **will not replace** the CSU/GE Certification document. The "Certification of CSU General Education Breadth" is a **separate process**. The student must request CSU/GE Certification at the time he/she requests a final Chabot transcript to be sent to the CSU school he/she plans on attending. File this request with the Office of Admissions and Records.

(NEW CERTIFICATE)

**INTERSEGMENTAL GENERAL
EDUCATION TRANSFER
(IGETC)
CERTIFICATE OF ACHIEVEMENT**

Students transferring to the University of California or the California State University system have the opportunity to complete their lower division general education requirements at Chabot College. This pattern of general education is typically 34-47 semester units. Earning an IGETC Certificate of Achievement will enable Chabot College to officially acknowledge a significant educational achievement the student has completed at Chabot College. For more detailed course information, consult the IGETC information page in the catalog or current IGETC flyers (FLYER #129) in the Counseling Division. Counselors are available to assist you in determining if using IGETC for CSU or UC fits your academic transfer plans. **All courses need a grade of "C" or higher.**

OPTION I: CSU Transfer

Complete the required number of units/courses in each category:

- Area 1:** English Communications
Group A: English Composition
Group B: Critical Thinking
Group C: Oral Communication 9 semester units
- Area 2:** Mathematical Concepts and
Quantitative Reasoning 3 semester units
- Area 3:** Arts, and Humanities 9 semester units
- Area 4:** Social and Behavioral Sciences 9 semester units
- Area 5:** Physical and Biological Sciences 7-9 semester units
US History, Constitution and American Ideals . . . 6 semester units*
- Total minimum units required. 39-46 semester units**

OPTION II: UC Transfer

Complete the required number of units/courses in each category:

- Area 1:** English Communications
Group A: English Composition
Group B: Critical Thinking 6 semester units
- Area 2:** Mathematical Concepts and
Quantitative Reasoning. 3 semester units

- Area 3: Arts, and Humanities 9 semester units
- Area 4: Social and Behavioral Sciences 9 semester units
- Area 5: Physical and Biological Sciences. 7-9 semester units
- Area 6A: Language Other Than English
(LOTE) 0-10 semester units

Total minimum units required. 39-46 semester units

(*LOTE: This UC IGETC requirement can be satisfied in a number of ways. See Page 27 in the front of the Catalog for a detailed explanation.

Earning this Certificate of Achievement **will not replace** the IGETC Certification document. The "Certification of IGETC" is a **separate process**. The student must request IGETC Certification at the time he/she requests a final Chabot transcript to be sent to the UC or CSU school he/she plans on attending. File this request with the Office of Admissions and Records.

CHANGES TO PAGES 137

MACHINE TOOL TECHNOLOGY (MTT)

(COURSE NUMBER CORRECTION)

MACHINIST

CERTIFICATE OF ACHIEVEMENT

CORE COURSES	FALL	SPRING
Machine Tool Technology 60A (Machine Tool Technology I)	4	
Machine Tool Technology 63A (Individual Projects)	2	
Machine Tool Technology 71A (Numerical Control Programming I)	4	
Machine Tool Technology 50 (Blueprint Reading, Sketching, and CAD)	3	
Industrial Technology 74 (Measurements and Calculations)	3	
Machine Tool Technology 60B (Machine Tool Technology II)	4	
Machine Tool Technology 63B (Advanced Individual Projects)	2	
Machine Tool Technology 71B (Numerical Control Programming II)	4	
Welding Technology 70 (Introduction to Welding)	2	
Total	28	

CHANGES TO PAGES 139-142

MASS COMMUNICATIONS (MCOM)

(DEGREE REVISED TO REFLECT RENUMBERING AND UNIT CHANGES)

MASS COMMUNICATIONS

ASSOCIATE IN ARTS DEGREE

FRESHMAN YEAR	FALL	SPRING
Mass Communications 40 (Introduction to Broadcasting)	3	
Mass Communications 41 (Introduction to Mass Communications)	3	

Mass Communications 1 (Journalism: Newswriting and Information Gathering)	3
Mass Communications 3 (Journalism: Magazine and Newspaper Feature Writing)	3
Mass Communications 42 (Writing for Broadcasting)	3
Photography 50 (Introduction to Photography)	3

SOPHOMORE YEAR

	FALL	SPRING
Mass Communications 15 (Publications: Editorial Leadership and Production)	3	
Business 50 (Introduction to Advertising)	3	
Mass Communications 60 (Introduction to Television Studio Techniques)	3	
Mass Communications 43 (Advertising Sales and Media Management)	4	
Mass Communications 44 (Radio and Television Announcing/Performance)	3	
Mass Communications 61 (Intermediate Television Studio Techniques)	3	
Mass Communications Option*	3	
Total	40	

General Education Courses

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

Total minimum units required 60

*Any course in Mass Communications.

MASS COMMUNICATIONS (MCOM)

(REPLACED BY MCOM 41)

5 INTRODUCTION TO MASS COMMUNICATIONS 3 UNITS

(REPLACED BY MCOM 43)

8 ADVERTISING SALES AND MEDIA MANAGEMENT 4 UNITS

(REPLACED BY MCOM 40)

31 INTRODUCTION TO BROADCASTING 3 UNITS

(REPLACED BY MCOM 44)

**32 RADIO AND TELEVISION ANNOUNCING/
PERFORMANCE 3 UNITS**

(REPLACED BY MCOM 60)

**33A INTRODUCTION TO TELEVISION
STUDIO TECHNIQUES 3 UNITS**

(REPLACED BY MCOM 61)

**33B INTERMEDIATE TELEVISION
STUDIO TECHNIQUES 3 UNITS**

(REPLACED BY MCOM 50)

34 RADIO STUDIO TECHNIQUES 3 UNITS

(REPLACED BY MCOM 42)

35 WRITING FOR BROADCASTING 3 UNITS

(REPLACED BY MCOM 58)

38 SPECIAL PROJECTS IN RADIO 2 UNITS

(REPLACED BY MCOM 68)

39 SPECIAL PROJECTS IN TELEVISION 3 UNITS

(REVISED AND RENUMBERED)

40 INTRODUCTION TO BROADCASTING 3 UNITS

A survey of radio, television, film, and multimedia and their impact on culture and society; includes economics, technological development, programming, ratings, legal aspects, and social control of broadcasting in America, and cross-cultural, international comparisons. (May not receive credit if Mass Communications 31 has been completed.) 3 hours. Transfer: CSU; CSU/GE: D7; AA/AS

(REVISED AND RENUMBERED)

41 INTRODUCTION TO MASS COMMUNICATIONS 3 UNITS

History of the press and mass media; the political, social and economic impact of the press on government and public opinion. Strongly recommended: Eligibility for English 1A or 52A. (May not receive credit if Mass Communications 5 has been completed.) 3 hours. Transfer: CSU; UC; CSU/GE: D7.

(REVISED AND RENUMBERED)

42 WRITING FOR BROADCASTING 3 UNITS

Techniques of writing for radio and television; including script writing and discussion of professional and student scripts, with emphasis on commercials; and underwriting announcements, public service announcements, news and program introductions. Strongly recommended: Eligibility for English 1A or 52A. (May not receive credit if Mass Communications 35 has been completed.) 3 hours. Transfer: CSU.

(REVISED AND RENUMBERED)

43 ADVERTISING SALES AND MEDIA MANAGEMENT 4 UNITS

Introduction to broadcast advertising sales from research through the sales presentation to the airing of the commercial campaign. Broadcast and cable station managerial objectives, procedures and problems pertaining to daily operations; and the managerial perspective of individual departments within the broadcast and cable station. (May not receive credit if Mass Communications 8 has been completed.) 4 hours. Transfer: CSU; AA/AS.

(REVISED AND RENUMBERED)

**44 RADIO AND TELEVISION ANNOUNCING/
PERFORMANCE 3 UNITS**

Projection of personality, voice control and pronunciation necessary for communication of ideas in radio and television broadcasting under simulated studio circumstances. (May not receive credit if Mass Communications 32 has been completed.) 3 hours. Transfer: CSU; AA/AS.

(REVISED AND RENUMBERED)

50 RADIO STUDIO TECHNIQUES 3 UNITS

Operational procedures and practices in a modern radio broadcast studio. Emphasis on production aspects including editing and announcing, station operations and commercial radio programming. (May not receive credit if Mass Communications 34 has been completed.) 3 hours lecture, 1 hour laboratory. Transfer: CSU.

(REVISED AND RENUMBERED)

58 KCRH RADIO EXPERIENCE 3 UNITS

(May be repeated 3 times)

Practical experience in KCRH radio station operations including programming, music, audio production techniques, promotions, news, live sports, and underwriting sales. Experience in broadcast operation of KCRH-FM. Prerequisite: Mass Communications 50 *(completed with a grade of "C" or higher)*. (Mass Communications 38 and 58 may be taken a combined total of four times.) 2 hours lecture, 3 hours laboratory. Transfer: CSU.

(NEW COURSE)

59 ADVANCED KCRH RADIO EXPERIENCE 3 UNIT

(May be repeated 3 times)

Advanced practical experience in KCRH radio station operations including running programming, music, audio production, promotions, news, live sports, and underwriting sales departments. Experience in broadcast operation of KCRH-FM. Strongly recommended: Mass Communications 58. 2 hours lecture, 3 hours laboratory. Transfer: CSU.

(REVISED AND RENUMBERED)

60 TELEVISION STUDIO TECHNIQUES I 3 UNITS

Introduction to studio practices. Hands-on experience in television studio operations, control room procedures, and basic program production. (Mass Communications 33A and 60 may be taken a combined total of four times.) 2 hours lecture, 3 hours laboratory. Transfer: CSU.

(REVISED AND RENUMBERED)

61 TELEVISION STUDIO TECHNIQUES II 3 UNITS

(May be repeated 3 times)

Further experience in television studio operations, control room procedures, and program production. Designed to improve skills in operating television equipment, and producing and directing television programs. Prerequisite: Mass Communications 60. 2 hours lecture, 3 hours laboratory. Transfer: CSU.

(REVISED AND RENUMBERED)

62 TELEVISION SPORTS PRODUCTION 2 UNITS

(May be repeated 3 times)

Introduction to the exciting field of television sports production. This course offers hands-on experience in LIVE broadcast of Chabot College home games and production of the *Chabot Sports Show*, both of which are broadcast on Chabot Television on Comcast cable channel 27. Other topics include: shooting and editing sports highlights and features, field production, sports field reporting, interviewing athletes, and news writing. Strongly recommended: Mass Communications 60. (Mass Communications 72 and 62 may be taken a combined total of 4 times). 1 hour lecture, 4 hours laboratory. Transfer: CSU.

(REVISED AND RENUMBERED)

63 CABLE TELEVISION STATION OPERATION 2 UNITS

(May be repeated 3 times)

Practical experience in cable television station operation including: programming the television line up, content development, community outreach, underwriting and sales, soliciting clients, and proper equipment maintenance. Experience in the broadcast operation of Chabot Television on Comcast cable 27. Strongly recommended: Mass Communications 60. (Mass Communications 73 and 63 may be taken a combined total of four times.) 1 hour lecture, 4 hours laboratory. Transfer: CSU.

(REVISED AND RENUMBERED)

68 KCTH TELEVISION EXPERIENCE 3 UNITS

(May be repeated 3 times)

Practical experience in television production and programming. Prerequisite: Mass Communications 60. (Mass Communications 73 and 63 may be taken a combined total of four times.) 2 hours lecture, 3 hours laboratory. Transfer: CSU.

(NEW COURSE)

69 ADVANCED KCTH TELEVISION EXPERIENCE 3 UNITS

(May be repeated 3 times)

Advanced practical experience in television production and programming. Prerequisite: Mass Communications 60 *(completed with a grade of "C" or higher)*. Strongly recommended: Mass Communications 68

(completed with a grade of "C" or higher). 2 hours lecture, 3 hours laboratory. Transfer: CSU.

(REPLACED BY MCOM 62)
72 TELEVISION SPORTS PRODUCTION 2 UNITS

(REPLACED BY MCOM 42)
73 CABLE TELEVISION STATION OPERATION 2 UNITS

MATHEMATICS (MTH)

(NEW COURSE)
15 APPLIED CALCULUS I 3 UNITS

Differential calculus of algebraic, exponential, and logarithmic functions; introduction to integral calculus. Applications in business, economics and the life and social sciences. Prerequisite: Mathematics 31 (completed with a grade of "C" or higher) or Mathematics 20 (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics Assessment process. 3 hours lecture, 0-1 hour laboratory. Transfer: CSU; CSU/GE: B4; AA/AS.

(NEW COURSE)
16 APPLIED CALCULUS II 3 UNITS

Techniques of integration; multivariable calculus; calculus of trigonometric functions; differential equations; Taylor polynomials. Applications in business, economics and the life and social sciences. Prerequisite: Mathematics 36 or 37 (completed with a grade of "C" or higher) and Mathematics 15 (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics Assessment process. 3 hours lecture, 0-1 hour laboratory. Transfer: CSU; CSU/GE: B4; AA/AS.

(REVISED PREREQUISITE)
35 STATISTICS FOR BUSINESS MAJORS 4 UNITS

Introduction to modern probability, descriptive statistics, estimation, hypothesis testing (one and two sample) and linear regression. Applications to business and economics. Introduction to the use of a computer software package to complete both descriptive and inferential statistics problems. Prerequisite: Mathematics 1 or 15 (completed with a grade of "C" or higher, may be taken concurrently.) Strongly recommended: Eligibility for English 1A. 4 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE: B4; IGETC: Area 2A; AA/AS.

CHANGES TO PAGES 144-145

MEDICAL ASSISTING (MEDA)

MEDICAL ASSISTING ASSOCIATE IN ARTS DEGREE

(DELETE)
 Health 50 (Orientation to Health Care Delivery Systems) 2
 (REVISE TOTAL)
Total 40.7

MEDICAL ASSISTING CERTIFICATE OF ACHIEVEMENT

(DELETE)
 Health 50 (Orientation to Health Care Delivery Systems) 2
 (REVISE TOTAL)
Total 29.7

CHANGES TO PAGE 147

MUSIC

LITERATURE, THEORY AND MUSICIANSHIP (MUSL)

(REVISED TRANSFER INFORMATION)
5 AMERICAN CULTURES IN MUSIC 3 UNITS

Music in twentieth century United States through the study of contributions of three selected groups from the following: African-Americans, Latin-Americans, Asian-Americans, European-Americans, and Native Americans. Emphasis on understanding diverse styles, and on integrating these styles into American music. Concert, religious, and folk-pop music will be included. 3 hours. Transfer: CSU; UC; CSU/GE: C1; IGETC: Area 3A.

CHANGES TO PAGE 153

NURSING (NURS)

(REVISED CATALOG DESCRIPTION)
64 PHARMACOLOGICAL BASIS OF THERAPEUTICS 2½ UNITS

Introduction to the principles of clinical pharmacology, the administration of drugs as therapeutic agents, and the interactions of drugs and body tissues. The purpose, action, and expected physiological responses of therapeutic agents and dosage forms currently used in treating pain, infectious processes, and selected acute and chronic disease states in the cardiovascular, endocrine, respiratory, autonomic nervous and central nervous systems is explored as well as the integration of the concepts in the nursing process. Prerequisite: Satisfactory completion of all courses in the first two semesters of the nursing curriculum and concurrent enrollment (or satisfactory completion of) Nursing 59 or Nursing 60A or possession of a valid California RN or LVN license. 2½ hours. Transfer: CSU.

CHANGES TO PAGE 163-164

PHYSICAL SCIENCE (PSCI)

(REVISED TRANSFER INFORMATION)
15 DESCRIPTIVE PHYSICAL SCIENCE: INTRODUCTION TO PRINCIPLES OF PHYSICAL SCIENCE 5 UNITS

An introduction to the physical universe from atomic particles to the stars, with emphasis on the basic principles of physics, astronomy, chemistry, and the geo-sciences (meteorology and geology). Designed for non-majors in physical science. Includes an introduction to laboratory, principles and techniques with emphasis on the basic concepts

discussed in the class. May not receive credit if Physics 11 has been completed. Strongly recommended: Mathematics 65, English 101A or 102. 4 hours lecture, 3 hours laboratory. Transfer: CSU; UC; CSU/GE: B1; AA/AS.

PHYSICS (PHYS)

(NEW COURSE)

22A CALCULUS APPLICATIONS FOR COLLEGE PHYSICS 1 UNIT

A supplementary course using calculus as a tool for understanding topics covered in college level physics. Taken concurrently with Physics 2A to satisfy the physics requirement for life science majors at universities that require a calculus-based physics sequence. Prerequisite: Mathematics 15 and Mathematics 36 or 37, or Mathematics 1 (*all completed with a grade of "C" or higher*) or an appropriate skill level demonstrated through the mathematics assessment process; and concurrent enrollment in Physics 2A. 1 hour. Transfer: CSU; UC; CSU/GE: B1, B3; IGETC: Area 5A & Lab).

PORTUGUESE (PORT)

(REVISED TITLE, HOURS AND UNITS)

50A PORTUGUESE CONVERSATION AND CULTURE I 3 UNITS

Development of a basic understanding of spoken Portuguese through pronunciation, vocabulary, and applied grammar. Introduction to the everyday culture of Portuguese-speaking people. 3 hours lecture, 1 hour laboratory. Transfer: CSU.

(REVISED TITLE, CATALOG DESCRIPTION, HOURS AND UNITS)

50B PORTUGUESE CONVERSATION AND CULTURE II 3 UNITS

Development of skills learned in Portuguese 50A. Understanding of spoken Portuguese through pronunciation, vocabulary, and applied grammar. Further study of the life and culture of the Portuguese-speaking people. Prerequisite: Portuguese 50A (*completed with a grade of "C" or higher*). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

(NEW COURSE)

50C PORTUGUESE CONVERSATION AND CULTURE III 3 UNITS

Development of skills learned in Portuguese 50B. Understanding of spoken Portuguese through pronunciation, vocabulary, and applied grammar. Further study of the culture and everyday life activities of Portuguese-speaking people. Prerequisite: Portuguese 50B (*completed with a grade of "C" or higher*). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

(NEW COURSE)

50D PORTUGUESE CONVERSATION AND CULTURE IV 3 UNITS

Development of skills learned in Portuguese 50C. Understanding of spoken Portuguese through pronunciation, vocabulary, and applied grammar. Further study of the culture and everyday life activities of Portuguese-speaking people. Prerequisite: Portuguese 50C (*completed with a grade of "C" or higher*). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

CHANGES TO PAGES 165-167

PSYCHOLOGY-COUNSELING (PSCN)

(DISCIPLINE CORRECTION)

Replace Speech 11 with Communication Studies 11 in program listings.

(NEW DEGREE)

LIBERAL STUDIES: ELEMENTARY TEACHER PREPARATION

ASSOCIATE IN ARTS
(PENDING STATE APPROVAL)

The following degree enables the student to prepare to transfer, primarily to a CSU school with a major in Elementary Teacher Preparation, typically called Liberal Studies at the CSU institution. **While this particular pattern of courses is specific to transfer to CSU East Bay, other CSU institutions, who also follow California State guidelines for Elementary Teacher Credentialing preparation include many, if not all of these requirements.** The student is advised to consult ASSIST (www.assist.org) for CSU schools other than CSU East Bay and see a counselor for assistance. *Students wanting full CSU GE Breadth Certification will need to complete additional courses (see FLYER #101) as noted in this major pattern.*

This pattern encompasses the new multiple subject matter program standards adopted by the California Commission on Teacher Credentialing. Many CSU General Education-Breadth requirements are covered in this major. Not all lower division courses for the Liberal Studies major at CSUEB are available at Chabot, you may need to take additional lower division classes after transfer.

WRITTEN COMMUNICATION

(Two courses, each completed with a grade of "C" or higher)

ENGLISH COMPOSITION

English 1A 3

SECOND COMPOSITION COURSE AND CRITICAL THINKING COURSE

English 4 or 7 3

ORAL COMMUNICATION

(One course completed with a grade of "C" or higher)

PUBLIC SPEAKING

Communication Studies 1 3

PHYSICAL SCIENCE*

INTRODUCTION TO CHEMISTRY

Chemistry 10 or 31 4

ELEMENTARY PHYSICS WITH LABORATORY

Physics 11 4

LIFE SCIENCE

INTRODUCTION TO BIOLOGY WITH LABORATORY

Biology 10 or 31 4

QUANTITATIVE REASONING*

(One course completed with a grade of "C" or higher)

QUANTITATIVE REASONING

Mathematics 1, 2, 3, 4, 6, 8, 20, 31, 32, 33, 35, 36, 37,
40 or 43 3-5

ARTS*

NO COURSES ARTICULATED

Note: Students wanting full CSU GE Breadth Certification will need to complete an Area C1 course (see FLYER #101).

HUMANITIES*

A SURVEY COURSE IN LITERATURE THAT HAS EITHER A CULTURAL OR GEOGRAPHIC SCOPE

English 20, 21, 22, 32, 38, 47 or 48 3

Note: Students wanting full CSU GE Breadth Certification will need to complete an Area C1 course and another Area C course (see FLYER #101).

SOCIAL SCIENCES*

CULTURAL GEOGRAPHY

Geography 2 3

INTRODUCTION TO SOCIOLOGY

Sociology 1 3

Note: Students wanting full CSU GE Breadth Certification will need to complete another Area D course (see FLYER #101), which can be satisfied with an American Institutions course from item #4 below.

FIELD EXPERIENCE; HEALTH*

INTRODUCTION TO EDUCATION

General Studies 11 3

Note: Course or documented experience (50 hours) in a position as a teacher's aide, tutor, or volunteer in the elementary (K-6) school classroom with children of elementary school age.)

HEALTH: MAINTENANCE OF WELLNESS

Health 1 3

Total 39-41

For AA Degree General Education and Graduation requirements, students will also need to:

1. complete one unit of Physical Education activity.
2. satisfy the American Cultures requirement, which can be met with Sociology 1 taken at Chabot College from this major pattern or any other course approved for American Cultures.

3. satisfy the Wellness requirement, which can be met with Health 1 taken at Chabot College from this major pattern or any other course approved for Wellness in the GE Pattern.
4. complete the American Institutions requirement. Recommend History 7 or Political Science 1. An additional course needed from the appropriate options in Area F of the CSU GE Breadth Requirements for full CSU GE Breadth Certification (see FLYER #101).
5. complete a total of 60 Associate Degree applicable units.
6. complete a total of 60 CSU transferable units.
7. consider strongly recommended Electives: Early Childhood Development 52 and Anthropology 3.

Total minimum units required 60

*There may be additional lower division requirements after transfer OR to fully satisfy CSU GE Breadth Certification.

CHANGES TO PAGES 169

RADIO AND TELEVISION BROADCASTING

(REVISED DEGREE)

RADIO AND TELEVISION BROADCASTING

ASSOCIATE IN ARTS DEGREE

FRESHMAN YEAR FALL SPRING

Mass Communications 40 (Introduction to Broadcasting)	3
Mass Communications 41 (Introduction to Mass Communications)	3
Mass Communications 44 (Radio and Television Announcing/Performance)	3
Mass Communications 50 (Radio Studio Techniques)	3
Mass Communications 60 (Television Studio Techniques I)	3

SOPHOMORE YEAR FALL SPRING

Mass Communications 43 (Advertising Sales and Media Management)	4
Mass Communications 61 Television Studio Techniques II)	3
Mass Communications 58 (KCRH Radio Experience) or Mass Communication 68 (KCTH Television Experience)	2-3
Mass Communications 42 (Writing for Broadcasting)	3
Total	27-28

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

Total minimum units required 60

CHANGES TO PAGES 174-176

SPANISH (SPA)

(REVISED CATALOG DESCRIPTION, HOURS)

1A BEGINNING SPANISH 5 UNITS

Introduction to the Spanish-speaking cultures of the world featuring the study and practice in the four language learning skills (listening, speaking, reading, and writing) of Spanish. Strongly recommended: eligibility for English 1A. 5 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE: Area C; AA/AS.

(REVISED CATALOG DESCRIPTION, HOURS)

1B ELEMENTARY SPANISH 5 UNITS

Further study of the Spanish-speaking cultures of the world featuring the acquisition of the four language learning skills (listening, speaking, reading, and writing) of Spanish begun in Spanish 1A. Prerequisite: Spanish 1A (*completed with a grade of "C" or higher*). 5 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE: Area C2; IGETC: 6A-LOTE; AA/AS. (Corresponds to 2 years high school study.)

(REVISED HOURS)

2A INTERMEDIATE SPANISH 4 UNITS

Review of grammar; reading of works of modern authors; practice in conversation and composition. Prerequisite: Spanish 1B (*completed with a grade of "C" or higher*). 4 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE: Area C2; IGETC: Area 3B, 6A-LOTE; AA/AS.

(REVISED HOURS)

2B ADVANCED SPANISH 4 UNITS

Reading of Hispanic authors; advanced review of grammar; emphasis on speaking and composition. Prerequisite: Spanish 2A (*completed with a grade of "C" or higher*). 4 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE: Area C2; IGETC: Area 3B, 6A-LOTE; AA/AS.

(REVISED HOURS AND UNITS)

50A SPANISH CONVERSATION AND CULTURE I 3 UNITS

Development of a basic understanding of spoken Spanish through pronunciation, vocabulary, and applied grammar and an introduction to the everyday culture of Spanish-speaking people. 3 hours lecture, 1 hour laboratory. Transfer: CSU.

(REVISED CATALOG DESCRIPTION, HOURS AND UNITS)

50B SPANISH CONVERSATION AND CULTURE II 3 UNITS

Development of skills learned in Spanish 50A. Understanding of spoken Spanish through pronunciation, vocabulary, and applied grammar. Further study of life and the culture of the Spanish-speaking people. Prerequisite: Spanish 50A (*completed with a grade of "C" or higher*). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

(REVISED HOURS AND UNITS)

50C SPANISH CONVERSATION AND CULTURE III 3 UNITS

Development of skills learned in Spanish 50B. Understanding of spoken Spanish through pronunciation, vocabulary, and applied grammar. Further study of the culture and everyday life activities of Spanish-speaking people. Prerequisite: Spanish 50B (*completed with a grade of "C" or higher*). 3 hours lecture, 1 hour laboratory. Transfer: CSU.

(REVISED HOURS AND UNITS)

50D SPANISH CONVERSATION AND CULTURE IV 3 UNITS

Development of skills learned in Spanish 50C. Understanding of spoken Spanish through pronunciation, vocabulary, and applied grammar. Further study of the culture and everyday life activities of Spanish-

speaking people. Prerequisite: Spanish 50C (*completed with a grade of "C" or higher*.) 2 hours. Transfer: CSU.

SPEECH (SPCH)

(DISCIPLINE CHANGE)

(See Communication Studies)

THEATER ARTS (THTR)

DEGREE:

AA-THEATER ARTS

(PENDING STATE APPROVAL)

An AA in Theater Arts will give students experience and knowledge in the broad range of skills required for the successful production of both original and published theatrical material. All majors must complete courses in acting, technical theater and production of original student work. Beyond that, students can focus more intensely on a given area, such as acting, directing, playwrighting or technical theater. The department produces a full array of theatrical genres including musicals, Shakespeare, contemporary American dramas and original student written pieces.

THEATER ARTS

ASSOCIATE IN ARTS DEGREE

(PENDING STATE APPROVAL)

FRESHMAN YEAR FALL SPRING

Theater Arts 1 (Introduction to Acting)	3
Theater Arts 10 (Introduction to Theater Arts)	3
Theater Arts 30 (Emerging Work)	3
Theater Arts 40 (Introduction to Technical Theater)	2

SOPHOMORE YEAR FALL SPRING

Theater Arts 48 (College Theater Technical).	3
Option*	3
Option*	3
Total	20

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 7 (Voice for the Actor)	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)

(REVISED CATALOG DESCRIPTION; TITLE CHANGE)

2 INTERMEDIATE ACTING 3 UNITS

A continuation of Theater Arts 1. Exploration of the theory and practice of acting, focusing on more complex characterization and character analyses. Theatrical styles and period acting with emphasis on monologues, scenes, and audition technique. Voiceover concepts. Development of critical thinking skills associated with viewing and analyzing performances of others. Laboratory hours are required for rehearsal of scenes and attendance of on campus theater productions. (Formerly THEA 1B). 3 hours lecture, 1 hour laboratory. Transfer: CSU; UC.

(REVISED CATALOG DESCRIPTION; TITLE CHANGE)

5 THEATER FOR YOUNG AUDIENCES 3 UNITS

(May be repeated 3 times)

Participate in a theater production to be performed for local K-12 students. Plays will be cast by audition; however, everyone who enrolls will be part of the production. 3 hours. Transfer: CSU; CSU/GE: C1.

(NEW COURSE)

6 ADVANCED IMPROVISATION AND MOVEMENT FOR ACTORS 3 UNITS

Builds on skills that have been introduced in beginning improvisation or acting courses. Focus is on development of character and story telling through physical expression. Improving an actor's ability to make bold, interesting and specific physical choices. 3 hours lecture, 1 hour laboratory. Transfer: CSU.

(REVISED CATALOG DESCRIPTION; NUMBER AND TITLE CHANGES)

7 VOICE FOR THE ACTOR 3 UNITS

Development of the awareness of and access to the natural voice for use in theatrical production, and in life. Increase emotional availability and ability to communicate text clearly through breath control and articulation. (Formerly THTR 25) 3 hours. Transfer: CSU; UC; CSU/GE: C1; AA/AS.

(REVISED CATALOG DESCRIPTION; TITLE CHANGE)

10 INTRODUCTION TO THEATER ARTS 3 UNITS

Enjoyment and appreciation of the art of live theater through looking at plays of various genres, time periods and from differing parts of the world. Includes viewing and discussing live theater. 3 hours. Transfer: CSU; UC; CSU/GE: C1; IGETC: Area 3A; AA/AS.

(REMOVE; REPLACED BY THTR 7)

25 FUNDAMENTALS OF STAGE SPEECH 3 UNITS

TUTORING (TUTR)

(NEW COURSE)

1A TUTORING THEORY AND PRACTICE ½ UNIT

(May be repeated 3 times)

Training for college tutors to acquire specific skills and techniques for tutoring in academic and vocational subject matter areas and basic skills. Required course for tutors participating in Chabot College Learning Connection tutoring programs. Corequisite: Tutoring 1B or equivalent. ½ hour/week or 9 hours total.

(NEW COURSE)

1B CONTENT-AREA TRAINING FOR TUTORS ½ UNIT

(May be repeated 3 times)

Training for college tutors to acquire skills and techniques for tutoring in specific content areas. Required course for tutors participating in Chabot College Learning Connection tutoring programs. Corequisite: Tutoring 1A. ½ hour per week or 9 hours total.

WELDING TECHNOLOGY (WELD)

(REVISED TRANSFER INFORMATION)

71 WELDING FOR ARTISTS 1 UNIT

(May be repeated 3 times)

Provides fundamental welding and typical shop instruction and skills that artistically inclined individuals need to learn in order to be effective in the artistic creation process. Provides instruction on types of metals (aluminum, iron, steel, cast iron, bronze, stainless steel, etc.), mechanical fastenings, cutting and permanent joining together of metals and alloys through welding processes such as SMAW, GMAW, GTAW, FCAW, oxyacetylene and braze welding, plasma and fuel gas cutting. Includes general shop equipment usage, welding electricity fundamentals, shop safety, welding consumable identification, hazardous materials regulation. 1 hour lecture, 3 hours laboratory. Transfer: CSU.

