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.
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DIRECTORY

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

Chabot College
25555 Hesperian Boulevard
Hayward, CA 94545
Telephone: (510) 723-6600
Fax: (510) 782-9315
www.chabotcollege.edu
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 Closed
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
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)

<table>
<thead>
<tr>
<th>Program</th>
<th>Associate in Arts</th>
<th>Associate in Science</th>
<th>Certificate of Achievement</th>
<th>Certificate of Proficiency</th>
<th>Certificate</th>
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<td>Engineering</td>
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<td>Health Care Management (pending state approval)</td>
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(DELETE)

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<th>Program</th>
<th>Associate in Arts</th>
<th>Associate in Science</th>
<th>Certificate of Achievement</th>
<th>Certificate of Proficiency</th>
<th>Certificate</th>
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</table>
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. 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, 65L
Psychology 5

(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, 65L
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 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

CHANGES TO PAGES 31-32

(Revised)

COLLEGE BOARD ADVANCED PLACEMENT (AP) EXAMINATION CREDITS

CHABOT COLLEGE AA/AS GE, CSU/GE, PREREQUISITES

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

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**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.

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**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.

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**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.

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**Architecture (ARCH)**

**(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.
Art History (ARTH)

(Revised Title, Catalog Description, Hours and Units)
50  Museum and Gallery Techniques 3 Units
(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 ART 6; may not receive credit if ART 6 has been completed.) 3 hours lecture, 5 hours laboratory. Transfer: CSU; CSU/GE: C1; AA/AS.

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.

**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**

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<td>Business 1A* (Financial Accounting)</td>
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<td>Business 12 (Introduction to Business)</td>
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<td>Business 16 (Business Mathematics)</td>
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**SOPHOMORE YEAR**

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<td>Business 3 (Income Tax Accounting)</td>
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(Other Business-related programs appear under the headings of Computer Application Systems and Real Estate.)

**DEGREE:**

FUNCTIONAL AND BUSINESS STUDIES

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

(OTHER BUSINESS-RELATED PROGRAMS APPEAR UNDER THE HEADINGS OF COMPUTER APPLICATION SYSTEMS AND REAL ESTATE.)
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

(REREVED 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**

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business 1A* (Financial Accounting)</td>
<td>4</td>
</tr>
<tr>
<td>Business 8 (Payroll Accounting)</td>
<td>3</td>
</tr>
<tr>
<td>Business 14 (Business Communications)</td>
<td>3</td>
</tr>
<tr>
<td>Computer Application Systems 72D (Introduction to Microsoft Word®)</td>
<td>1</td>
</tr>
<tr>
<td>Computer Application Systems 72E (Introduction to Microsoft Excel®)</td>
<td>1</td>
</tr>
<tr>
<td>Computer Application Systems 72G (Introduction to Microsoft Access®)</td>
<td>1</td>
</tr>
<tr>
<td>Business 1B (Managerial Accounting)</td>
<td>4</td>
</tr>
<tr>
<td>Business 3 (Income Tax Accounting)</td>
<td>4</td>
</tr>
<tr>
<td>Business 92 (Excel Spreadsheets for Accounting)</td>
<td>2</td>
</tr>
<tr>
<td>Business 93 (QuickBooks)</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>25</strong></td>
</tr>
</tbody>
</table>

* *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**

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business 7 (Accounting for Small Business)</td>
<td>3</td>
</tr>
<tr>
<td>Computer Application Systems 72D (Introduction to Microsoft Word®)</td>
<td>1</td>
</tr>
<tr>
<td>Computer Application Systems 72E (Introduction to Microsoft Excel®)</td>
<td>1</td>
</tr>
<tr>
<td>Computer Application Systems 72G (Introduction to Microsoft Access®)</td>
<td>1</td>
</tr>
<tr>
<td>Computer Application Systems 72J (10-Key)</td>
<td>1</td>
</tr>
<tr>
<td>Business 93 (QuickBooks)</td>
<td>2</td>
</tr>
<tr>
<td>Business 1A (Financial Accounting) or Business 3 (Income Tax Accounting)</td>
<td>4</td>
</tr>
<tr>
<td>Business 8 (Payroll Accounting)</td>
<td>3</td>
</tr>
<tr>
<td>Business 92 (Excel Spreadsheets for Accounting)</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business 1A (Financial Accounting)*</td>
<td>4</td>
</tr>
<tr>
<td>Business 12 (Introduction to Business)</td>
<td>3</td>
</tr>
<tr>
<td>Economics 1 (Principles of Microeconomics) or Economics 2 (Principles of Macroeconomics)</td>
<td>3</td>
</tr>
<tr>
<td>Computer Application Systems 50 (Introduction to Computer Application Systems) or Computer Application Systems 8 (Computer Literacy) or Computer Science 8 (Computer Literacy)</td>
<td>3</td>
</tr>
<tr>
<td>Business 1B (Managerial Accounting)</td>
<td>4</td>
</tr>
<tr>
<td>Business 10 (Business Law)</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

* *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**

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business 22 (Introduction to Management)</td>
<td>3</td>
</tr>
<tr>
<td>Business 71 (Health Care Law)</td>
<td>3</td>
</tr>
<tr>
<td>Business 14 (Business Communications)</td>
<td>3</td>
</tr>
<tr>
<td>Business 21 (Human Resource Management)</td>
<td>3</td>
</tr>
<tr>
<td>Business 70 (Health Care Financial Management)</td>
<td>3</td>
</tr>
</tbody>
</table>
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**

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business 7 (Accounting for Small Business)</td>
<td>3</td>
</tr>
<tr>
<td>Business 21 (Human Resource Management)</td>
<td>3</td>
</tr>
<tr>
<td>Computer Application Systems 72D (Introduction to Microsoft Word®)</td>
<td>1</td>
</tr>
<tr>
<td>Computer Application Systems 72E (Introduction to Microsoft Excel®)</td>
<td>1</td>
</tr>
<tr>
<td>Computer Application Systems 72F (Introduction to Microsoft PowerPoint®)</td>
<td>1</td>
</tr>
<tr>
<td>Computer Application Systems 72G (Introduction to Microsoft Access®)</td>
<td>1</td>
</tr>
<tr>
<td>Business 8 (Payroll Accounting)</td>
<td>3</td>
</tr>
<tr>
<td>Business 14 (Business Communications)</td>
<td>3</td>
</tr>
<tr>
<td>Business 22 (Introduction to Management) or Business 28 (Human Relations in the Workplace)</td>
<td>3</td>
</tr>
<tr>
<td>Computer Application Systems 55 (Microsoft Office® Integration)</td>
<td>3</td>
</tr>
</tbody>
</table>

**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.

(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**

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business 12 (Introduction to Business)</td>
<td>3</td>
</tr>
<tr>
<td>Business 14 (Business Communications)</td>
<td>3</td>
</tr>
<tr>
<td>Business 36 (Introduction to Marketing)</td>
<td>3</td>
</tr>
<tr>
<td>Business 1A (Financial Accounting) or Business 7 (Accounting for Small Business)</td>
<td>3–4</td>
</tr>
<tr>
<td>Business 34 (Introduction to Advertising)</td>
<td>3</td>
</tr>
<tr>
<td>Option*</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total** ............................................. 21–22

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

(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’ WAFC 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**

(REVISED TO INCLUDE BUSINESS 15)

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business 15 (Business English) or English 70 (Report Writing)</td>
<td>3</td>
</tr>
</tbody>
</table>

**CHANGE  FROM CERTIFICATE OF PROFICIENCY; REVISED**

**SMALL BUSINESS MANAGEMENT**

CERTIFICATE OF ACHIEVEMENT

**CORE COURSES**

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business 26 (Small Business Management)</td>
<td>3</td>
</tr>
<tr>
<td>Business 27 (Law for Small Businesses) or Business 10 (Business Law)</td>
<td>3–4</td>
</tr>
<tr>
<td>Business 36 (Introduction to Marketing)</td>
<td>3</td>
</tr>
<tr>
<td>Business 7 (Accounting for Small Business)</td>
<td>3</td>
</tr>
<tr>
<td>Business 93 (QuickBooks)</td>
<td>2</td>
</tr>
<tr>
<td>Option*</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total** ............................................. 18–19
<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business 10 (Business Law)</td>
<td>4</td>
<td>4 hours. Transfer: CSU.</td>
</tr>
<tr>
<td>Business 50N (Dealing with Difficult People)</td>
<td>1</td>
<td>Techniques for resolving and preventing interpersonal conflict in the workplace. 1 hour. Transfer: CSU.</td>
</tr>
<tr>
<td>Business 50P (Quality Customer Service)</td>
<td>1</td>
<td>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.</td>
</tr>
<tr>
<td>English 101B</td>
<td>3</td>
<td>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 1A. 3 hours lecture, 1 hour laboratory. Transfer: CSU.</td>
</tr>
<tr>
<td>English 1A</td>
<td>3</td>
<td>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 1A. 3 hours lecture, 1 hour laboratory. Transfer: CSU.</td>
</tr>
<tr>
<td>Project management is the ability to define work efforts in terms of time, budget, and resource needs essential for business planning. 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 Mathemat ics 65. (May not receive credit if Business 81 has been completed.) 4 hours. Transfer: CSU.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health care financial management</td>
<td>3</td>
<td>Overview of finance and accounting in health care organizations, including the financial structure of both for profit and non-profit health care 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.</td>
</tr>
<tr>
<td>Health care law</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>Course leadership of health care organizations</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>Introduction to investments</td>
<td>3</td>
<td>Introduction to investments</td>
</tr>
<tr>
<td>Computerized accounting using Excel and Quickbooks</td>
<td>2</td>
<td>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</td>
</tr>
</tbody>
</table>
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 94

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 I) ............................ 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

*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) 1-4 units
- Theater Arts 25 (Fundamentals of Stage Speech) 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 (GENERAL)
ASSOCIATE IN ARTS OR ASSOCIATE IN SCIENCE 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

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 ActionScript 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.

### EARLY CHILDHOOD DEVELOPMENT

#### ASSOCIATE IN ARTS DEGREE

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>FALL</th>
<th>SPRING</th>
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</thead>
<tbody>
<tr>
<td>Early Childhood Development 50 (Early Childhood Principles and Practices)</td>
<td>3</td>
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<tr>
<td>Early Childhood Development 51 (Prenatal to Early Childhood)</td>
<td>3</td>
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<tr>
<td>Early Childhood Development 62 (Child, Family, and Community)</td>
<td>3</td>
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<tr>
<td>Early Childhood Development 63 (Early Childhood Curriculum)</td>
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<tr>
<td>Early Childhood Development 64 (Child Health, Safety and Nutrition)</td>
<td>3</td>
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<td>Early Childhood Development 65 (Early Childhood Curriculum)</td>
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<tr>
<td>Early Childhood Development 66 (Child, Family, and Community)</td>
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<tr>
<th>SOPHOMORE YEAR</th>
<th>FALL</th>
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<tbody>
<tr>
<td>Early Childhood Development 60 (Introduction to the Young Child with Exceptional Needs)</td>
<td>3</td>
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</tr>
<tr>
<td>Early Childhood Development 69 (Child Study Through Observation)</td>
<td>3</td>
<td></td>
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<tr>
<td>Early Childhood Development 79 (Teaching in a Diverse Society)</td>
<td>3</td>
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<tr>
<td>Early Childhood Development 90 (Supervised Experience)</td>
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<tr>
<td>Early Childhood Development 91 (Adaptive Curriculum for Children with Exceptional Needs)</td>
<td>3</td>
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<tr>
<td>Early Childhood Development 92 (Infant and Toddler Development and Caregiving)</td>
<td>3</td>
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</tbody>
</table>

**Total units required:** 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.

### EARLY CHILDHOOD INTERVENTION

#### ASSOCIATE IN ARTS DEGREE (PENDING STATE APPROVAL)

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
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<th>SPRING</th>
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<tbody>
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<tr>
<th>SOPHOMORE YEAR</th>
<th>FALL</th>
<th>SPRING</th>
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<tbody>
<tr>
<td>Early Childhood Development 40 (Social and Emotional Foundations for Early Learning)</td>
<td>3</td>
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<tr>
<td>Early Childhood Development 60 (Introduction to the Young Child with Exceptional Needs)</td>
<td>3</td>
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<tr>
<td>Early Childhood Development 69 (Child Study Through Observation)</td>
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<tr>
<td>Early Childhood Development 90 (Supervised Experience)</td>
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</tr>
<tr>
<td>Early Childhood Development 67 (Infant and Toddler Development and Caregiving)</td>
<td>3</td>
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</tr>
<tr>
<td>Early Childhood Development 91 (Adaptive Curriculum for Children with Exceptional Needs)</td>
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</tbody>
</table>

**Total units required:** 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.

### EARLY CHILDHOOD DEVELOPMENT

#### BASIC TEACHER

#### CERTIFICATE OF ACHIEVEMENT

<table>
<thead>
<tr>
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</tr>
<tr>
<td>Early Childhood Development 63 (Early Childhood Curriculum)</td>
<td>4</td>
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</tbody>
</table>

**Total units required:** 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.
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

Total ............................................................... 25

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.

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.

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)

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.
### 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
  - **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.*

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>General Education Courses (Areas A-E)</td>
<td>16</td>
</tr>
<tr>
<td>Electronic Systems Technology GE Requirement</td>
<td>3</td>
</tr>
</tbody>
</table>

*Complete a minimum of 3 units from:*  
- Business 14 (Business Communications) 2
- Computer Application Systems 92A (Networking for Home and Small Businesses) 2
- Computer Application Systems 92B (Networking for a Small-to-Medium Business or ISP) 2
- English 70 (Report Writing) 2
- Physics 11 (Descriptive Physics) 2

**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 hours 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 IS CET 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
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
Complete a minimum of 3 units from
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 Biomedical 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.

Changes to Page 114

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.

Changes to Page 116-117

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.

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 practice. 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.

NEW COURSE
89 SPECIAL STUDIES IN FILM ½ - 5 UNITS
(May be repeated 3 times)
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.
**French (FRNC)**

(Revised Catalog Description, Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1A</td>
<td>Beginning French</td>
<td>5</td>
<td>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.</td>
</tr>
<tr>
<td>1B</td>
<td>Elementary French</td>
<td>5</td>
<td>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 &quot;C&quot; 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.)</td>
</tr>
<tr>
<td>2A</td>
<td>Intermediate French</td>
<td>4</td>
<td>Review of grammar; reading of works of modern authors; practice in conversation and composition. Prerequisite: French 1B (completed with a grade of &quot;C&quot; or higher). 4 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE: C2; IGETC: Area 3B, 6A-LOTE; AA/AS.</td>
</tr>
<tr>
<td>2B</td>
<td>Advanced French</td>
<td>4</td>
<td>Reading of Francophone authors; advanced review of grammar; emphasis on speaking and composition. Prerequisite: French 2A (completed with a grade of &quot;C&quot; or higher). 4 hours lecture, 1 hour laboratory. Transfer: CSU; UC; CSU/GE: C2; IGETC: Area 3B, 6A-LOTE; AA/AS.</td>
</tr>
<tr>
<td>50A</td>
<td>French Conversation and Culture I</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>50B</td>
<td>French Conversation and Culture II</td>
<td>3</td>
<td>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 &quot;C&quot; or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU.</td>
</tr>
<tr>
<td>50C</td>
<td>French Conversation and Culture III</td>
<td>3</td>
<td>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 &quot;C&quot; or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU.</td>
</tr>
<tr>
<td>50D</td>
<td>French Conversation and Culture IV</td>
<td>3</td>
<td>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 &quot;C&quot; or higher). 3 hours lecture, 1 hour laboratory. Transfer: CSU.</td>
</tr>
</tbody>
</table>

**General Studies (GNST)**

(Received Catalog Description)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction to Online Learning</td>
<td>1/2</td>
<td>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. 1/2 hour. Transfer: CSU.</td>
</tr>
<tr>
<td>11</td>
<td>Exploring Education</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>66</td>
<td>Life Skills for the Adolescent</td>
<td>3 1/2</td>
<td>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.</td>
</tr>
</tbody>
</table>

**German (GERM)**

(Revised Catalog Description, Hours, Transfer Information)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1A</td>
<td>Beginning German</td>
<td>5</td>
<td>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.</td>
</tr>
<tr>
<td>1B</td>
<td>Elementary German</td>
<td>5</td>
<td>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 &quot;C&quot; 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.)</td>
</tr>
</tbody>
</table>
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.

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.

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; IGTC: 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.
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.)

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.

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.

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.

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.

Liberal Arts

Degree: AA—Liberal Arts
Certificate of Achievement: California State University General Education—Breadth (CSUGE—Breadth)
Intersegmental General Education Transfer Curriculum (IGETC)

Journalism

Freshman Year
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
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
**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

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**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

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**NEW CERTIFICATE**

**CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION BREADTH (CSU/GE BREADTH) 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 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 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 ............................... 4
(Machine Tool Technology I)
Machine Tool Technology 63A .............................. 2
(Individual Projects)
Machine Tool Technology 71A .............................. 4
(Numerical Control Programming I)
Machine Tool Technology 50 ............................... 3
(Blueprint Reading, Sketching, and CAD)
Industrial Technology 74 ..................................... 3
(Measurements and Calculations)
Machine Tool Technology 60B ............................... 4
(Machine Tool Technology II)
Machine Tool Technology 63B .............................. 2
(Advanced Individual Projects)
Machine Tool Technology 71B .............................. 4
(Numerical Control Programming II)
Welding Technology 70 ....................................... 2
(Introduction to Welding)

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 ............................... 3
(Introduction to Broadcasting)
Mass Communications 41 ............................... 3
(Introduction to Mass Communications)

Mass Communications 1 (Journalism:
Newwriting 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

(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)
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)
67 ADVANCED KCHT 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
MATH (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.

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.

MEDICAL ASSISTING

(MEDA)

MEDICAL ASSISTING
ASSOCIATE IN ARTS DEGREE

(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.

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.

MEDICAL ASSISTING
CERTIFICATE OF ACHIEVEMENT

(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.

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.

(NEW COURSE)

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: C1; IGETC: Area 2A; AA/AS.

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.

NURSING (NURS)

(REVISUAL CATALOG DESCRIPTION)

64 PHARMACOLOGICAL BASIS OF THERAPEUTICS 2 1/2 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. 2 1/2 hours. Transfer: CSU.

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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1A</td>
<td>3</td>
</tr>
</tbody>
</table>

**SECOND COMPOSITION COURSE AND CRITICAL THINKING COURSE**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 4 or 7</td>
<td>3</td>
</tr>
</tbody>
</table>

**ORAL COMMUNICATION**

**(One course completed with a grade of “C” or higher)**

**PUBLIC SPEAKING**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication Studies 1</td>
<td>3</td>
</tr>
</tbody>
</table>
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

SOCYMORE 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
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.

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.)

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.

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.

50A SPANISH CONVERSATION AND CULTURE I  
3 UNITS
Development of a basic understanding of spoken Spanish through pronunciation, vocabulary, and an introduction to the everyday culture of Spanish-speaking people. 3 hours lecture, 1 hour laboratory. Transfer: CSU.

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

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

50D SPANISH CONVERSATION AND CULTURE IV  
3 UNITS
Development of skills learned in Spanish 50C. Understanding of spoken Spanish through pronunciation, vocabulary, and applied grammar. Further study of the culture and everyday life activities of Spanish-speaking people. Prerequisite: Spanish 50C (completed with a grade of "C" or higher.) 2 hours. Transfer: CSU.

Speech (SPCH)

(Revised catalog description, hours)

(Revised hours)

ASSOCIATE IN ARTS DEGREE  
(Revised catalog description, hours and units)

Theater Arts (THTR)

DEGREE:  
AA–Theater Arts  
(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
Total .................................................. 20

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

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 plasma 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.

(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.