CATALOG UPDATE

The current Chabot College Catalog covers the period 2003-2005. Chabot College will not produce a new catalog this year but, rather, this addendum which reflects all changes or corrections through Spring, 2006. It is anticipated that a fully revised college catalog will be produced in Spring 2006.

This catalog supplement should be used by students and staff along with the existing 2003-2005 catalog. Students are strongly encouraged to seek advice from the Counseling Division. Additional information and publications will be made available to students throughout the year as appropriate.
CHABOT COLLEGE CATALOG ADDENDUM
2004-2006

USING THE 2004-2006 CATALOG ADDENDUM

This Addendum contains curriculum changes affecting both the 2004-05 and the 2005-06 academic years. In some cases, 2005-2006 changes supersede those listed in the 2004-2005 section. Those have been clearly marked in the 2004-2005 section. In other cases, you should consult both sections to see all the changes that have been made. Refer to the Table of Contents on the next page to see which pages you should view for a particular area.

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CHABOT COLLEGE
25555 HESPERIAN BOULEVARD
HAYWARD, CA 94545
TELEPHONE: (510) 723-6600
FAX: (510) 782-9315
WWW.CHABOTCOLLEGE.EDU
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**FALL SEMESTER 2005**

Orientation Week  
August 15, 16 ...................... New Faculty Orientation  
August 17 ....................... District Convocation  
August 18 ....................... Staff Development Day  
August 19 ....................... College/Division/Day  
August 22 ....................... INSTRUCTION BEGINS  
August 27 ........................ Instruction Begins Saturday Classes  
September 2 ................... Last day to Add or Drop (NGR–No Grade of Record) in person  
September 3-5 ............... Holiday Weekend – Labor Day  
No Instruction  
September 5 ................... Last day to Add or Drop (NGR–No Grade of Record) online  
September 6 .................... CENSUS DAY  
September 23 ................ Deadline to apply for Credit/No Credit  
October 31 ...................... 60% Point for Financial Aid  
November 10 ............... Last day to drop with a "W" (Withdrawal) (in person)  
November 11 ............... Last day to drop with a "W" (Withdrawal) (online)  
November 11 .................... Holiday – Veterans Day  
November 23, 24, 25, 26 .............. Holiday – Thanksgiving  
No Instruction  
December 10 ............... Last Day of Instruction, Saturday Classes  
December 14 ............... LAST DAY OF INSTRUCTION  
December 15-21 ............... Final Examination Period  
December 17 ............... Final Examination for Saturday Classes  
January 3 ............... Deadline for Instructors to File Grades  
December 22-January 16 .................. Semester Recess  
No Instruction  

**SPRING SEMESTER 2006**

January 16 .................... Holiday – Martin Luther King, Jr. Day  
January 17 ..................... INSTRUCTION BEGINS  
January 21 ..................... Instruction Begins Saturday Classes  
February 3 ..................... Last day to Add or Drop (NGR–No Grade of Record) in person  
February 5 ..................... Last day to Add or Drop (NGR–No Grade of Record) online  
February 6 .................... CENSUS DAY  
February 16 ..................... FLEX DAY  
Day Classes Cancelled  
Evening Classes In Session  
February 17 ................ Deadline to apply for Credit/No Credit  
February 17-20 ................ Holiday – Presidents' Days  
April 6 ......................... 60% Point for Financial Aid  
April 7 ....................... Last day to drop with a "W" (Withdrawal) (in person)  
April 9 ....................... Last day to drop with a "W" (Withdrawal) (online)  
April 10-14 ..................... Spring Break  
No instruction  
April 14 ......................... Deadline to Apply for Graduation  
End of Spring Semester 2005  
May 13 ....................... Last Day of Instruction, Saturday Classes  
May 19 ......................... LAST DAY OF INSTRUCTION  
May 20 ....................... Final Examination for Saturday Classes  
May 20-26 ......................... Final Examination Period  
May 26 ......................... COMMENCEMENT  
June 1 ......................... Deadline for Instructors to File Grades
GENERAL INFORMATION

CHANGES TO PAGE 11

CHABOT COLLEGE VISION AND MISSION STATEMENTS
July 1, 2004

VISION

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

MISSION

Chabot College is a public comprehensive community college that prepares students to succeed in their education, progress in the workplace, and engage in the civic and cultural life of the global community. The college furthers student learning and responds to the educational needs of our local population and economy. The college serves as an educational leader, contributing its resources to the intellectual, cultural, physical, and economic vitality of the region. Recognizing that learning is a life-long journey, the college provides opportunities for the intellectual enrichment and physical well-being of all community members who can benefit.

VALUES

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

LEARNING AND TEACHING
• supporting a variety of teaching philosophies and learning modalities
• providing an environment conducive to intellectual curiosity and innovation
• encouraging collaboration that fosters learning
• engaging in ongoing reflection on learning, by students and by staff
• cultivating critical thinking in various contexts
• supporting the development of the whole person

COMMUNITY AND DIVERSITY
• building a safe and supportive campus community
• treating one another with respect, dignity, and integrity
• practicing our work in an ethical and reflective manner
• honoring and respecting cultural diversity
• encouraging diversity in our curriculum and community of learners

INDIVIDUAL AND COLLECTIVE RESPONSIBILITY
• taking individual responsibility for our own learning
• cultivating a sense of social and individual responsibility
• developing reflective, responsible and compassionate citizens
• playing a leadership role in the larger community
• embracing thoughtful change and innovation

CHANGES TO PAGE 13

(Revise as follows)

CITIZENS’ ADVISORY BOARDS

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

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

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

The following Advisory Boards presently operate: Accounting, Administration of Justice, Architectural, Automotive, Computer Application Systems, Dental Health Programs, Design Technology, Early Childhood Development, Electronics, Engineering, Fire Technology, Graphic Communications, Health Information Technology, Inspection, Interior Design, Machine Tool and Manufacturing, Medical Assisting, Nursing, Radio and Television Broadcasting, Real Estate, Service to Seniors, Welding. As new needs are identified, other Advisory Boards will be appointed to assist the college in developing appropriate programs.

CHANGES TO PAGE 14

FEES

Enrollment Fee: $26 per semester unit (subject to change).
Nonresident Tuition: Out-of-state students are required to pay $152 per semester unit in addition to the enrollment fee and basic fees.
International, Non-immigrant Visa Tuition: International students and non-immigrant aliens attending on other visa types are required to pay $155 per semester unit in addition to the enrollment fee and basic fees.

CHANGES TO PAGE 15

Parking Fees: Students who wish to park their vehicles on College parking lots must purchase their parking permit or a ticket for each day that parking is desired. The fee is $30.00 per semester—4 wheel vehicle; $15.00 per semester—motorcycle, and $2.00 for daily parking. Students eligible for the Board of Governors (BOG) Fee Waiver pay $20 per semester.

Student Health Fee: Mandatory health service fee of $13 per semester to support health services for enrolled students...

FEES ARE SUBJECT TO CHANGE

Enrollment fees are regulated by the State budget. The College reserves the right to collect enrollment fee increases approved by the State Legislature from all students including those who have paid fees prior to the implementation of new rates.
Changes to Page 170

(Revise)

Sex or Sexual Orientation

Chabot College does not discriminate on the basis of sex or sexual orientation in the educational programs or activities it conducts...

(Revise)

DECLARACION DE NO DISCRIMINACION

Chabot College, de acuerdo con las leyes civiles, declara que no discrimina hacia ninguna persona a base de su raza, color, nacionalidad, ascendencia, religion, creencia, sexo, orientación sexual, edad o incapacidad...
CURRICULUM CHANGES

2004-2005

Program and course changes in this section went into effect Fall Semester 2004. They remain in effect for 2005-2006 except as noted below:

Boxed programs and courses were in effect for 2004-2005 only. They change again in Fall 2005.

See the 2005-2006 Section for revisions effective Fall 2005.
**Graduation Requirements**

**Changes to Page 17**

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

A. LANGUAGE AND RATIONALITY
   Communications and Analytical Thinking
   (Add)
   History 12*

C. HUMANITIES
   (Add)
   English 34

D. SOCIAL AND BEHAVIORAL SCIENCES
   (Add)
   History 27*
   Political Science 2*

   *May be used to fulfill one area only.

E. HEALTH AND PHYSICAL EDUCATION
   2. Physical Education
      Complete 2 SEM UNITS
      (Add)
      Physical Education 4

AMERICAN INSTITUTIONS .......... Complete a minimum of 6 SEM UNITS

(Replace as follows)
Select one course from Group A and one course from Group B
Group A: History 7*, 20* or Political Science 1*
Group B: History 8*, 12*, 21*, 22*, 25*, 27*
   Political Science 2*

   *May be used to fulfill one area only.

**Changes to Page 19**

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

A. LANGUAGE AND RATIONALITY
   Communications and Analytical Thinking
   (Add)
   History 12*

C. HUMANITIES
   (Add)
   English 34

D. SOCIAL AND BEHAVIORAL SCIENCES
   (Add)
   History 27*
   Political Science 2*

   *May be used to fulfill one area only.

E. HEALTH or AMERICAN INSTITUTIONS
   & PHYSICAL EDUCATION
   1. Health Education OR
      American Institutions: Complete 3 SEM UNITS
      (Replace as follows)
      Health 1, 4, Physical Education 18 or
      History 7*, 8*, 12*, 20*, 21*, 22*, 25*, 27* or
      Political Science 1*, 2*

   2. Physical Education
      Complete 1 SEM UNIT
      (Add)
      Physical Education 4

   *May be used to fulfill one area only.

**Changes to Page 23**

**CALIFORNIA STATE UNIVERSITY (CSU)**

Upper Division Transfer Requirements:
You are eligible for admission to the CSU if you:

(Revise paragraph)

- Completed or will complete 60* semester (90) quarter) or
  more CSU transferable units with an overall GPA of 2.0 or
  better.

(Add footnote)

*Some CSU institutions may allow 56 units. Check with
individual campuses for their requirements.
## Advanced Placement Program

### Changes to Page 25

(Revise chart as follows)

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<th>AP Examination</th>
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<th>Subject Credit Given For:</th>
<th>Prerequisite Met For the Following Course(s)</th>
<th>Chabot Credits Issued For Graduation</th>
<th>1. AA/AS GE</th>
<th>2. CSU/GE</th>
<th>3. IGETC Requirement Met</th>
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<tr>
<td>CHEMISTRY</td>
<td>3, 4, 5</td>
<td>Chemistry 1A</td>
<td>Biology 2A&lt;br&gt;Chemistry 1B&lt;br&gt;Engineering 45</td>
<td>5 units</td>
<td>1. Satisfies Area B</td>
<td>2. 6 units toward Area B1 and B3 (lab)</td>
<td>3. Satisfies Area 5, Group A (no lab units)</td>
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<td>ECONOMICS Micro</td>
<td>3, 4, 5</td>
<td>Economics 1</td>
<td>n/a</td>
<td>3 units</td>
<td>1. Satisfies Area D</td>
<td>2. 3 units toward Area D2</td>
<td>3. 3 units toward Area 4</td>
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<td>3, 4, 5</td>
<td>Economics 2</td>
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<td>1. Satisfies Area D</td>
<td>2. 3 units toward Area D2</td>
<td>3. 3 units toward Area 4</td>
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## Degree Programs and Transfer Majors

### Changes to Pages 27-29

(Revise Titles)

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(Add)

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**Changes to Page 30**

Special Numbers and Rubrics

(Add)
500 Supplementary Instruction Lab Courses

---

**Administration of Justice (ADMJ)**

**Administration of Justice**
ASSOCIATE IN ARTS DEGREE

SOPHOMORE YEAR

(Change from) Administration of Justice 62 (The Justice System)
(To) Administration of Justice 63 (Criminal Investigation)

**Administration of Justice Options**

(Add) Administration of Justice 62, 79

(Delete) Administration of Justice 63, 81, 82

---

**Changes to Page 31**

(Delete prerequisite)
54 INVESTIGATIVE REPORTING 3 UNITS
...concise report...3 hours.

(Delete prerequisite)
60 CRIMINAL LAW 3 UNITS
...social force. 3 hours...

(Delete prerequisite)
61 EVIDENCE 3 UNITS
...case studies. 3 hours...

---

**Changes to Page 32**

(Delete prerequisite)
63 CRIMINAL INVESTIGATION 3 UNITS
...specific crimes. 3 hours...

(Delete prerequisite)
74 GANGS AND DRUGS 2 UNITS
...drug trafficking. 2 hours.

(Delete prerequisite)
79 HOMICIDE INVESTIGATION 3 UNITS
...investigation of course. 3 hours.

---

**Anthropology (ANTH)**

**Changes to Page 33**

(Title change)
5 CULTURES OF THE U.S.: ANTHROPOLOGICAL PERSPECTIVES ON RACE, CLASS, GENDER AND ETHNICITY 3 UNITS

---

**Architecture (ARCH)**

**Changes to Pages 34 & 35**

DEGREE:

AS—Architecture (Pending State Approval) [APPROVED]

(Add)
500 Architecture Studio 0 UNITS
Extended study of various topics from the standard transfer program in architecture. Emphasis on developing an in-depth understanding of how design theory, freehand techniques, and computer graphics are used to produce successful architectural renderings and plans. Corequisite: Architecture 2A, 2B, 4A, 4B, 8A, 8B, 16, 31A, 31B, 32A, 32B, 33, or 68. Variable hours laboratory.

---

**Art (ART)**

**Changes to Page 40**

(Add)
500 Art Skills Development Lab 0 units

---

**Automotive Technology (AUTO)**

**Changes to Page 41 & 42**

**Automotive Diagnostic Technology**
ASSOCIATE IN SCIENCE DEGREE

FALL SPRING

(Title and unit change)
Automotive Technology 50
(Automotive Fundamentals) .......................... 2 1/2
Total ................................................................. 37

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FRESHMAN YEAR

(Automotive Fundamentals) .......................... 2 1/2
Total ................................................................. 44

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CHABOT COLLEGE CATALOG ADDENDUM 2004-2006
### Automotive Mechanics Certificate of Achievement

**Freshman Year**  
**Fall**  
**Spring**

(Title and unit change)
- Automotive Technology 50
  - (Automotive Fundamentals) .......................... 2 1/2
- Total ........................................................................... 27 1/2

### Automotive Service Certificate of Achievement

**Freshman Year**  
**Fall**  
**Spring**

(Title and unit change)
- Automotive Technology 50
  - (Automotive Fundamentals) .......................... 2 1/2
- Total ........................................................................... 27

### Automotive Technology Certificate of Achievement

**Freshman Year**  
**Fall**  
**Spring**

(Title and unit change)
- Automotive Technology 50
  - (Automotive Fundamentals) .......................... 2 1/2
- Total ........................................................................... 44

### Certificate of Completion:

(Add)

**Retailing**

### Business Administration Transfer Program and Associate in Arts Degree

**Sophomore Year**  
**Fall**  
**Spring**

(Course change)
- Computer Application Systems 50
  - (Introduction to Computer Application Systems) or
  - Computer Application Systems 8
  - (Computer Literacy) or
  - Computer Science 8 (Computer Literacy) ................. 3

**Business (General)**

Associate in Science Degree  
Pending State Approval

**Sophomore Year**  
**Fall**  
**Spring**

(Course change)
- Computer Application Systems 54A
  - (Microsoft Excel I) or
  - Computer Science 8 (Computer Literacy) or
  - Computer Application Systems 50
  - (Introduction to Computer Application Systems) ....................... 3

**Business (Emphasis in International Business)**

Associate in Science Degree  
Pending State Approval

**Sophomore Year**  
**Fall**  
**Spring**

(Course change)
- Computer Application Systems 54A
  - (Microsoft Excel I) or
  - Computer Application Systems 55
  - (Microsoft Office Integration and Advanced Topics) ...................... 3-4
- Total ........................................................................... 43-46

### Biological Sciences

### Changes to Page 46

**Physiology (PHSI)**

(Revision)
- 2 Pathophysiology 3 UNITS
  - May be offered in Distance Education delivery format. 3 hours.

### Changes to Page 47-49

**Certificate of Achievement:**

(Add)

**Retail Management (Pending State Approval)**
### BUSINESS
**(EMPHASIS IN MARKETING)**  
**ASSOCIATE IN SCIENCE DEGREE**  
PENDING STATE APPROVAL  

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

<table>
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<th>Units</th>
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</table>
| Computer Application Systems 54A  
(Microsoft Excel I) or  
Computer Application Systems 55  
(Microsoft Office Integration and Advanced Topics) | 3 |

### BUSINESS
**(EMPHASIS IN MANAGEMENT)**  
**ASSOCIATE IN SCIENCE DEGREE**  
PENDING STATE APPROVAL  

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

<table>
<thead>
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<th>Course</th>
<th>Units</th>
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</table>
| Computer Application Systems 54A  
(Microsoft Excel I) or  
Computer Application Systems 55  
(Microsoft Office Integration and Advanced Topics) | 3-4 |

### ACCOUNTING TECHNICIAN  
**CERTIFICATE OF ACHIEVEMENT**

<table>
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<th>Course</th>
<th>Units</th>
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</table>
| Computer Application Systems 58  
(Introduction to Microsoft Access®) | 3 |

### RETAIL MANAGEMENT  
**CERTIFICATE OF ACHIEVEMENT**

This certificate is developed in accordance with the Western Association of Food Chains' new 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
</table>
| Business 1A (Principles of Accounting I) or  
Business 7 (General Accounting) | 3-4 |
| Business 14 (Business Communications) | 3 |
| Business 15 (Business Correspondence) | 3 |
| Business 16 (Business Mathematics) | 3 |
| Business 21 (Human Resource Management) | 3 |
| Business 22 (Introduction to Management) | 3 |
| Business 28 (Human Relations in the Workplace) | 3 |
| Business 32 (Retail Store Management) | 3 |
| Business 36 (Introduction to Marketing) | 3 |
| Computer Application Systems 8 (Computer Literacy) or  
Computer Science 8 (Computer Literacy) or  
Computer Application Systems 50  
(Introduction to Computer Application Systems) | 3 |

**Total**  
30-31

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.
(Add credit restriction)
7 GENERAL ACCOUNTING 3 UNITS
...(Combined credit for Computer Application Systems 60, Business 5, and/or Business 7 may not exceed 12 units.) 3 hours lecture, 1 hour laboratory. Transfer: CSU.

CHANGES TO PAGE 51

96 BUSINESS WORK EXPERIENCE SEMINAR 1 UNIT

(Combine credit for Computer Application Systems 60, Business 5, and/or Business 7 may not exceed 12 units.) 3 hours lecture, 1 hour laboratory. Transfer: CSU.

CHANGES TO PAGE 52

CHEMISTRY (CHEM)

18 GENERAL COLLEGE CHEMISTRY 5 UNITS
(Revise description)
Continuation of Chemistry 1A. Chemical energetics and equilibria, solutions and ionic equilibria...

CHANGES TO PAGE 53

CHICANO/LATINO STUDIES

CHICANO/LATINO STUDIES ASSOCIATE IN ARTS DEGREE
(PENDING STATE APPROVAL)

CORE COURSES
History 22 (Mexican American History in the Development of U.S. History from Pre-Columbian Period to the Present) 3

CHANGES TO PAGE 54

COMPUTER APPLICATION SYSTEMS—COMPUTER SOFTWARE APPLICATIONS
ASSOCIATE IN ARTS DEGREE

FRESHMAN YEAR
Course substitution: Replace CAS 55A with
Computer Application Systems 55
(Microsoft Office® Integration and Advanced Topics) 4

Total 36

SOPHOMORE YEAR
Course substitution: Replace CAS 55A with
Computer Application Systems 55B
(Microsoft Office® Applications Integrations II) 4

Delete
Computer Application Systems 55B
(Microsoft Office® Applications Integrations II) 4

Title correction
Computer Science 12 (Advanced Visual BASIC Programming) 2
Total 35-38

COMPUTER APPLICATION SYSTEMS—COMPUTER SOFTWARE APPLICATIONS CERTIFICATE OF ACHIEVEMENT

CORE COURSES
Computer Application Systems 50
(Introduction to Computer Application Systems) 3

Computer Application Systems 80 (BASIC – Computer Programming in BASIC) 4

Computer Application Systems 58
(Introduction to Microsoft Access®) 3

Computer Application Systems 82
(Designing Web Pages) 3
Total 23

ADMINISTRATIVE ASSISTANT CERTIFICATE OF ACHIEVEMENT

(Revised)
CORE COURSES
Business 1A (Principles of Accounting I) 3

Total 3-4

COMPUTER APPLICATION SYSTEMS—COMPUTER SOFTWARE APPLICATIONS CERTIFICATE OF ACHIEVEMENT

(Revised)
CORE COURSES
Business 1A (Principles of Accounting I) or Business 7 (General Accounting) 3-4

Total 3-4

COMPUTER APPLICATION SYSTEMS—COMPUTER SOFTWARE APPLICATIONS CERTIFICATE OF ACHIEVEMENT

(Revised)
CORE COURSES
Business 1A (Principles of Accounting I) or Business 7 (General Accounting) 3-4

Total 3-4

COMPUTER APPLICATION SYSTEMS—COMPUTER SOFTWARE APPLICATIONS CERTIFICATE OF ACHIEVEMENT

(Revised)
CORE COURSES
Business 1A (Principles of Accounting I) or Business 7 (General Accounting) 3-4

Total 3-4
Computer Application Systems 72B
(Elementary Computer Keyboarding II) and
Computer Application Systems 72C
(Elementary Computer Keyboarding III) ..................... 3
Computer Application Systems 8 (Computer
Literacy) or
Computer Science 8 (Computer
Literacy) or
Computer Application Systems 50
(Introduction to Computer Application
Systems) ........................................................................ 3
Computer Application Systems 88A
(Microsoft Word® I) ..................................................... 3
Computer Application Systems 54A
(Microsoft Excel® I) ....................................................... 3
Business 14 (Business Communications) or
Business 15 (Business Correspondence) .. 3
Business 28 (Human Relations in the
Workplace) or
Business 22 (Introduction to Management) ........ 3
Computer Application Systems 88B
(Microsoft Word® II) ..................................................... 3
Computer Application Systems 54B
(Microsoft Excel® II) or
Computer Application Systems 58
(Introduction to Microsoft Access®) ......................... 3
Total ........................................................................... 27-28

OFFICE TECHNOLOGY
CERTIFICATE OF ACHIEVEMENT

(Revised)
CORE COURSES FALL SPRING
Computer Application Systems 70
(Crude Keyboarding and
Formatting) or
Computer Application Systems 72A
(Elementary Computer Keyboarding I) and
Computer Application Systems 72B
(Elementary Computer Keyboarding II) and
Computer Application Systems 72C
(Elementary Computer Keyboarding III) .......... 3
Computer Application Systems 8 (Computer
Literacy) or
Computer Science 8 (Computer
Literacy) or
Computer Application Systems 50
(Introduction to Computer Application
Systems) ................................................................. 3
Business 14 (Business Communications) or
Business 15 (Business Correspondence) .......... 3
Computer Application Systems 88A
(Microsoft Word® I) ..................................................... 3
Computer Application Systems 54A
(Microsoft Excel® I) ....................................................... 3
Electives* ................................................................. 3
Total ........................................................................... 27-28

*Five units may be selected from the following:
Computer Application Systems 54B (Microsoft Excel® II) 3 units
Computer Application Systems 58 (Introduction to Microsoft Access®) 3 units
Computer Application Systems 72H (Proofreading Skills) 1 unit
Computer Application Systems 72I (Filing and Records Management) 1 unit
Computer Application Systems 72J (Ten-Key) 1 unit
Computer Application Systems 82 (Designing Web Pages) 3 units
Computer Application Systems 88B (Microsoft Word® II) 3 units

(Revise)
8 COMPUTER LITERACY 3 UNITS
(See also Computer Science 8)
Introduction to computers including: Microsoft Windows,
Microsoft Office, Multimedia, the internet, browsers, World Wide Web,
an awareness of types of computer software in use including
programming languages, electronic mail, computer-based
careers and trends, and other computing issues in today's society.
No prior computer experience necessary. Course recom-
mended for students of any major who want to learn about
computers and how to use them. Hands-on laboratory experi-
ence reinforces lecture. Strongly recommended: eligibility for
Mathematics 65 or Mathematics 65A (May not receive credit if
Computer Science 8 has been completed.) May be offered in
Distance Education delivery format. 2 hours lecture, 2 hours
laboratory. Transfer: CSU, UC; AA/AS; (CAN CSCI 2)

(Delete)
41 INTRODUCTION TO UNIX 2 UNITS

(Revise)
50 INTRODUCTION TO COMPUTER
APPLICATION SYSTEMS 3 UNITS
Introduction to computer applications for business and home
use. Includes hardware and common software applications such
as Word, Excel, PowerPoint, and Access, plus an understanding
of an Internet Browser for the World Wide Web, HTML, per-
sonal computer, and familiarization with its capabilities in a Win-
dows environment. May be offered in Distance Education delivery format. 3 hours lecture, 1 hour laboratory. Transfer:
CSU; CSU/GE: D7.

CHANGES TO PAGE 56

(Delete)
55A MICROSOFT OFFICE APPLICATIONS
INTEGRATION I 3 UNITS
(Delete)
55B MICROSOFT OFFICE APPLICATIONS
INTEGRATION II 4 UNITS

CHABOT COLLEGE CATALOG ADDENDUM 2004-2006 17
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>55</td>
<td>Microsoft Office Integration and Advanced Topics</td>
<td>4</td>
<td>Advanced computer concepts and topics for using the integrated features of Microsoft Office. Prerequisite: Computer Applications Systems 50 or Computer Application Systems 8 or Computer Science 8. (Combined credit for Computer Application Systems 55, 61, and 88A may not exceed 12 units.) 3 hours lecture, 3 hours laboratory. Transfer: CSU.</td>
</tr>
<tr>
<td>58</td>
<td>Introduction to Microsoft Access</td>
<td>3</td>
<td>Introduction to database use and concepts using Microsoft Access software.</td>
</tr>
<tr>
<td>60</td>
<td>Business Applications/General Accounting</td>
<td>12</td>
<td>Introduction to the principles of automated and manual accounting systems and computerized spreadsheets and databases typically required for employment. This self-paced, individualized course in general accounting, systematic record keeping and business transaction analysis emphasizes using personal computers to develop a fluent understanding and hands-on application of accounting and database principles and practices and related software applications such as Excel, Access and Peachtree. (Combined credit for Computer Application Systems 60, Business 5 and/or Business 7 may not exceed 12 units.) 30 hours laboratory for 21 weeks. Transfer: CSU.</td>
</tr>
<tr>
<td>61</td>
<td>Business Applications/Administrative Support</td>
<td>12</td>
<td>Introduction to the full range of office skills acquisition focusing on developing employable word processing skills as well as proofreading, business writing, filing, keyboarding and creating computer-based presentations. A self-paced, individualized approach is used to emphasize personal computers, and to develop a fluent understanding and hands-on use of word processing and presentation software concepts and applications such as Microsoft Word and PowerPoint. (Combined credit for Computer Application Systems 55, 61, and 88A may not exceed 12 units.) 30 hours laboratory for 21 weeks. Transfer: CSU.</td>
</tr>
<tr>
<td>72A</td>
<td>Elementary Computer Keyboarding I</td>
<td>1</td>
<td>Self-paced basic introduction to the computer keyboard for developing correct keyboarding skills. 3 hours laboratory. Transfer: CSU</td>
</tr>
<tr>
<td>72B</td>
<td>Elementary Computer Keyboarding II</td>
<td>1</td>
<td>Self-paced computer keyboard skill development for improving keyboarding accuracy and speed. Introductory word processing techniques will also be taught, including introduction to basic word processing techniques. Strongly recommended: Computer Application Systems 72A. 3 hours laboratory. Transfer: CSU.</td>
</tr>
<tr>
<td>72C</td>
<td>Computer Keyboarding III</td>
<td>1</td>
<td>Self-paced computer keyboard review for improving keyboarding accuracy and speed. Strongly recommended: Computer Application Systems 72A or Computer Application Systems 72B. 3 hours laboratory. Transfer: CSU.</td>
</tr>
<tr>
<td>72D</td>
<td>Introduction to Microsoft Word</td>
<td>1</td>
<td>Self-paced introduction to word processing using Microsoft Word. Strongly recommended: Computer Application Systems 72A or Computer Application Systems 72B. 3 hours laboratory. Transfer: CSU.</td>
</tr>
<tr>
<td>72E</td>
<td>Introduction to Microsoft Excel</td>
<td>1</td>
<td>Self-paced introduction to spreadsheets using Microsoft Excel. Strongly recommended: Computer Application Systems 72A or Computer Application Systems 72B. 3 hours laboratory. Transfer: CSU.</td>
</tr>
<tr>
<td>72F</td>
<td>Introduction to Microsoft PowerPoint</td>
<td>1</td>
<td>Self-paced introduction to presentations using Microsoft PowerPoint. Strongly recommended: Computer Application Systems 72A or Computer Application Systems 72B. 3 hours laboratory. Transfer: CSU.</td>
</tr>
<tr>
<td>72G</td>
<td>Introduction to Microsoft Access</td>
<td>1</td>
<td>Self-paced introduction to data bases using Microsoft Access. Strongly recommended: Computer Application Systems 72A or Computer Application Systems 72B. 3 hours laboratory. Transfer: CSU.</td>
</tr>
<tr>
<td>72H</td>
<td>Proofreading Skills</td>
<td>1</td>
<td>Self-paced techniques of proofreading and editing business documents. Strongly recommended: Computer Application Systems 72A or Computer Application Systems 72B. 3 hours laboratory. Transfer: CSU.</td>
</tr>
<tr>
<td>72I</td>
<td>Filing and Records Management</td>
<td>1</td>
<td>Self-paced theory and practice of alphabetic, numeric, geographic, and subject filing. 3 hours laboratory. Transfer: CSU.</td>
</tr>
</tbody>
</table>
72J 10-KEY 1 UNIT
(May be repeated 1 time)
Self-paced ten-key course using the computer numeric keypad. 3 hours laboratory. Transfer: CSU

72K BUSINESS ENGLISH SKILLS I 1 UNIT
Self-paced business English course focusing on English fundamentals as applied to business documents. 3 hours laboratory. Transfer: CSU

72L BUSINESS ENGLISH SKILLS II 1 UNIT
Continuation of self-paced business English course focusing on English fundamentals as applied to business documents. Strongly recommended: Computer Application Systems 72K. 3 hours laboratory. Transfer: CSU

72M INTRODUCTION TO COMPUTING 1 UNIT
Introduction to computing concepts through the use of videos, animations, and hands-on activities. 3 hours laboratory. Transfer: CSU

72N INTRODUCTION TO THE INTERNET 1 UNIT
(May be repeated 1 time)
Basic introduction to learning the internet through the use of videos, animations, and hands-on activities. 3 hours laboratory. Transfer: CSU

(Add credit restriction)
88A MICROSOFT WORD 1 3 UNITS
...(Combined credit for Computer Application Systems 55, 61, and 88A may not exceed 12 units.) 2 hours lecture, 2 hours laboratory. Transfer: CSU.

(Add)
100 ADAPTED COMPUTER KEYBOARDING 3 UNITS
(May be repeated 3 times)
Introduction to correct keyboarding techniques and familiarity with the entire computer keyboard, including the number pad with emphasis on adaptive, one handed, and ergonomic keyboarding skills. This course is designed for students with disabilities. 2 hours lecture, 3 hours laboratory.

(Add)
101 ADAPTED WORD PROCESSING 3 UNITS
(May be repeated 3 times)
Individualized adapted basic word processing techniques using specialized keyboarding commands, accessibility options, adapted keyboard and mouse hardware and software to produce letters, memos, reports, tables, and other documents. This course is designed for students with disabilities. 2 hours lecture, 3 hours laboratory.

(Add)
102 INTRODUCTION TO ASSISTIVE TECHNOLOGY 1-3 UNITS
(May be repeated 3 times)
Instructor led self-paced lab course in assistive technology using screen reader, scan and read, speech recognition, and screen enlargement software programs. Designed for students with disabilities, based on their individual needs. 3-9 hours laboratory.

103 ASSISTIVE TECHNOLOGY LABORATORY 1 UNIT
(May be repeated 3 times)
Support and individualized instruction in access technology use and adaptive strategies while working on assignments and research projects. Major emphasis on the Personal Computer and its practical use. Designed for students with disabilities. 3 hours laboratory.

500 COMPUTER APPLICATION SYSTEMS SUPPLEMENTAL INSTRUCTION LABORATORY 0 UNITS
Provides supervised supplemental instruction in skills related to mastery of concepts presented in Computer Applications courses linked to supplemental instruction laboratory. Corequisite: Computer Applications Systems 8, Computer Application Systems 50, Computer Application Systems 54A, 54B, 55, 70, 80, 82, 88A, 88B, or equivalent. 1-10 hours laboratory.

CHANGES TO PAGE 57 & 58

COMPUTER SCIENCE (CSCI)

COMPUTER SCIENCE (GENERAL)
ASSOCIATE IN ARTS OR ASSOCIATE IN SCIENCE DEGREE

FRESHMAN YEAR

SOPHOMORE YEAR

COMPUTER SCIENCE (CSCI)
Computer Science 40A (Introduction to the Oracle Database) 2 units
Computer Science 40B (PL/SQL Programming in the Oracle Database) 2 units
Computer Science 40C (Developer 2000 in the Oracle Database) 2 units
Computer Science 40D (Introduction to Oracle Database Administration) 2 units
Computer Science 42 (UNIX Tools, Shell Programming and System Administration Concepts) 2 units
Computer Science 44A (Perl Programming I) 2 units
Computer Science 47A (Microsoft Access Database) 2 units
Computer Science 47B (Visual Basic for Applications in Excel, Word and Access) 2 units
Computer Science 47C (Transt-SQL in the SQL Server Database) 2 units
Computer Science 47D (SQL server Database Administration) 2 units
Computer Science 92 (Introduction to Dynamic Hypertext Markup Language (DHTML)) 2 units
Computer Science 93 (Web Page Programming Using Microsoft VBScript/ActiveX/ASP) 2 units
Computer Science 94 (XML and XLS for the Web) 2 units

**Computer Science majors are encouraged to take both Mathematics 6 (Elementary Linear Algebra) and Mathematics 8 (Discrete Mathematics). No Mathematics or Computer Science course may be double counted except for General Education credit.**

This program is designed...
Changes to Page 62

(Delete certificate)

COMPUTER SCIENCE—
MICROSOFT ACCESS/SQL
DATABASE SPECIALIST
CERTIFICATE OF COMPLETION

(Add)

7 INTRODUCTION TO COMPUTER
PROGRAMMING CONCEPTS 3 UNITS
Introduction to computer programming for nonscience majors
and for students requiring additional preparation before taking
Computer Science 10 or Computer Science 14. Hardware, sys-
tem software basics, the history of computing, basic computer
operations, number systems, design of algorithms, and program-
mimg constructs such as variables, expressions, input/output,
decision-making, loops, functions, and parameters. 3 hours
lecture, 1 hour laboratory. Transfer: CSU.

(Revise)

8 COMPUTER LITERACY 3 UNITS
(See also Computer Application Systems 8)
Introduction to computers including: Microsoft Windows, Mi-
crosoft Office, Multimedia, the internet, browsers, World Wide
Web, an awareness of types of computer software in use includ-
ing programming languages, electronic mail, computer-based
careers and trends, and other computing issues in today’s soci-
ety. No prior computer experience necessary. Course recom-
mended for students of any major who want to learn about
computers and how to use them. Hands-on laboratory experi-
ence reinforces lecture. Strongly recommended: eligibility for Mathematics 65 or Mathematics 65A (May not receive credit if
Computer Application Systems 8 has been completed.) May be
offered in Distance Education delivery format. 2 hours lecture,
2 hours laboratory. Transfer: CSU, UC; AA/AS; (CAN CSCI 2)

(Advisory change)

14 INTRODUCTION TO STRUCTURED
PROGRAMMING IN C++ 4 UNITS
...Strongly recommended: Computer Science 7 (completed with a
grade of "C" or higher).

Changes to Page 64

(Revise description)

41 INTRODUCTION TO UNIX 2 UNITS
...May be offered in Distance Education delivery format...

Dental Hygiene (DHYG)

Changes to Page 68

(Add) 500 SUPPLEMENTARY INSTRUCTION IN
DENTAL HYGIENE 0 UNITS
Supplemental clinical experiences in patient assessment, dental
hygiene care planning, goal setting and implementation of instru-
mentation techniques for providing prevention-oriented den-
tal hygiene care and non-surgical periodontal therapy. Corequisite:
Dental Hygiene 71A, 71B, 81A or 81B. Variable hours laboratory.

Digital Media (DIGM)

Changes to Page 69

(Add) 34A FLASH I 1 1/2 UNITS
Introduction to Flash, Macromedia’s authoring application for
bringing motion, sound, and interactivity to Web pages. Creat-
ing images with Flash’s vector-based drawing tools; importing
and modifying images, sounds, and video clips; animating those
elements; embedding the resulting animation in a Web page; op-
timizing animation for low-bandwidth Internet connections. 1
hour lecture, 2 hours laboratory. Transfer: CSU.

(Add) 34B FLASH II 1 1/2 UNITS
Continuation of the content and skills introduced in Digital Media
34A (Flash I), with emphasis on using the ActionScript scripting
language to add interactivity to Flash movies. Use of interface
elements such as menus, button groups, sliding controls, and
text-input fields to control animation, sound, and other multi-
media elements. Prerequisite: Digital Media 34A (completed with a
grade of C or higher). 1 hour lecture, 2 hours laboratory. Transfer: CSU.

(Add) 35A DREAMWEAVER I 1 1/2 UNITS
Introduction to the basic skills required for designing and pro-
ducing Web pages and multi-page Web sites, providing a foun-
dation for eventual creation of interactive, multimedia Web sites.
Hand-coding HTML and Cascading Style Sheets; using
Macromedia Dreamweaver as a site design and management tool.
1 hour lecture, 2 hours laboratory. Transfer: CSU.

(Add) 35B DREAMWEAVER II 1 1/2 UNITS
Continuation of the content and skills introduced in Digital Me-
dia 35A (Dreamweaver I), with emphasis on using Dreamweaver in
collaboration with other multimedia applications (such as
Photoshop, Illustrator, and Flash) to create media-rich Web sites.
Devising intuitive navigation schemes; incorporating sound and
motion into a Web page. Prerequisites: Digital Media 34A (com-
pleted with a grade of C or higher); Digital Media 35A (completed with
a grade of 'C' or higher); Art 31A, Architecture 31A, Interior Design 31A or Photography 31A (completed with a grade of 'C' or higher); Art 32A, Architecture 32A, Interior Design 32A or Photography 32A (completed with a grade of 'C' or higher). 1 hour lecture, 2 hours laboratory. Transfer: CSU.

(Add) 500 DIGITAL MEDIA LABORATORY 0 UNITS
Extended practice of various topics from the digital media courses. Emphasis on developing technical proficiency, software familiarity, and audio-visual literacy. Corequisite: Digital Media 34A, 34B, 35A, 35B. Variable hours laboratory.

**Electronics and Computer Technology (ELEC)**

**Changes to Page 73 & 74**

**Electronics and Computer Technology Associate in Science Degree**

**Freshman Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronics and Computer Technology 63A</td>
<td>(Project Development I)................................. 2</td>
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</table>

**(Revise as follows)**

**Sophomore Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronics and Computer Technology 62B</td>
<td>(Circuits and Systems)................................. 4</td>
</tr>
<tr>
<td>Electronics and Computer Technology 64B</td>
<td>(Microprocessor Technology)................................. 4</td>
</tr>
<tr>
<td>Electronics and Computer Technology 62C</td>
<td>(Electronic Communication Systems)................................. 4</td>
</tr>
<tr>
<td>Electronics and Computer Technology 63</td>
<td>(Project Management)................................. 4</td>
</tr>
<tr>
<td>Electronics and Computer Technology 64C</td>
<td>(Computer Systems and Industrial Controls)................................. 4</td>
</tr>
</tbody>
</table>

Total ........................................................................ 40

**Electronics and Computer Technology Certificate of Achievement**

**Freshman Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronics and Computer Technology 63A</td>
<td>(Project Development I)................................. 2</td>
</tr>
</tbody>
</table>

**(Revise as follows)**

**Sophomore Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronics and Computer Technology 62B</td>
<td>(Circuits and Systems)................................. 4</td>
</tr>
<tr>
<td>Electronics and Computer Technology 64B</td>
<td>(Microprocessor Technology)................................. 4</td>
</tr>
<tr>
<td>Electronics and Computer Technology 62C</td>
<td>(Electronic Communication Systems)................................. 4</td>
</tr>
<tr>
<td>Electronics and Computer Technology 63</td>
<td>(Project Management)................................. 4</td>
</tr>
<tr>
<td>Electronics and Computer Technology 64C</td>
<td>(Computer Systems and Industrial Controls)................................. 4</td>
</tr>
</tbody>
</table>

Total ........................................................................ 40

**Early Childhood Development (ECD)**

**Changes to Page 71 & 72**

**(Revise) 50 EARLY CHILDHOOD EDUCATION AND CARE 3 UNITS**

Historical and contemporary systems of Early Childhood group care, career opportunities, licensing requirements, personal qualifications, differing orientations to early childhood education, developmental stages of young children as related to quality programs with developmentally appropriate curriculum. 3 hours. Transfer: CSU.

**(Revise) 62 CHILD, FAMILY, AND COMMUNITY 3 UNITS**

Patterns of family living in contemporary society, including the varying roles and interactions of family members; demographic, socio-cultural, racial and economic factors affecting family life; relationship of the family to early care and education and to community resources. 3 hours. Transfer: CSU.

**(Revise) 63 EARLY CHILDHOOD CURRICULUM 4 UNITS**

Professional application of the principles of human growth and development in: the study of play based curriculum, the physical environment and learning experiences including program content, the use of materials, the facilitation and guidance of children’s experiences based on developmentally appropriate principles, the methods used to meet children’s physical, social, emotional, cognitive, and creative needs within cultural context. Prerequisite: Early Childhood Development 50 and 51 (both completed with a grade of 'C' or higher). 3 hours lecture, 3 hours laboratory. Transfer: CSU.

**(Add) 500 EARLY CHILDHOOD DEVELOPMENT SUPPLEMENTAL INSTRUCTION LABORATORY 0 UNITS**

Supervised supplemental instruction in skills related to mastery of developmentally appropriate practices and principles of early childhood required by the Child Development Permit issued by the State of California. Corequisite: ECD 50, ECD 51, ECD 62, or ECD63. Variable hours laboratory.
CHABOT COLLEGE CATALOG ADDENDUM 2004-2006

CURRICULUM CHANGES 2004-05

ELECTRONICS AUDIO/VIDEO TECHNOLOGY
CERTIFICATE OF ACHIEVEMENT

SOPHOMORE YEAR FALL SPRING

(Title change)
Electronics and Computer Technology 62B
(Circuits and Systems) ................................. 4

Electronics and Computer Technology 62C
(Electronic Communication Systems) ................. 4

62A SEMICONDUCTOR DEVICES 4 UNITS
Semiconductor physics, diode and transistor fundamentals, junction devices in large and small signal applications. Field effect transistors. Transistor biasing and configuration with AC and DC load lines. Fundamentals of amplification and cascaded amplifiers. Introduction to operational amplifiers. Power supply regulation and filtering. Prerequisite: Electronics and Computer Technology 60. May be offered in Distance Education delivery format. 3 hours lecture, 3 hours laboratory. Transfer: CSU.

(Revise)
62B CIRCUITS AND SYSTEMS I 4 UNITS
Analysis and troubleshooting of linear and non-linear analog circuits and systems. Power supply circuits. Active filter circuits. Timers, oscillators and waveform generators. Data conversion circuits. Application of software simulation tools. Laboratory construction of actual circuits and systems with an emphasis on troubleshooting methods. Prerequisite: Electronics and Computer Technology 62A. May be offered in Distance Education delivery format. 3 hours lecture, 3 hours laboratory. Transfer: CSU.

(Revise)
62C ELECTRONIC COMMUNICATION SYSTEMS 4 UNITS
Electronic Communication systems, including modulation techniques, receiver and transmitter circuits, antenna and wave propagation. Data communication fundamentals, Fiber optic and laser technology. Prerequisite: Electronics and Computer Technology 62B. May be offered in Distance Education delivery format. 3 hours lecture, 3 hours laboratory. Transfer: CSU.

(Add)
63 PROJECT MANAGEMENT 4 UNITS
Planning, tracking, and completing individual and/or group electronics prototype projects; 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 project management and electronic fabrication. Prerequisite: Electronics and Computer Technology 61. May be offered in Distance Education delivery format. 3 hours lecture, 3 hours laboratory. Transfer: CSU.

(Revise)
64A DIGITAL ELECTRONICS 4 UNITS
...May be offered in Distance Education delivery format...

64B MICROPROCESSOR TECHNOLOGY 4 UNITS
...May be offered in Distance Education delivery format...

64C COMPUTER SYSTEMS AND INDUSTRIAL CONTROL 4 UNITS
Computer systems architecture, peripheral devices, embedded systems, networking technology fundamentals. Industrial Control Electronics including Programmable Logic Controls. Troubleshooting techniques. Prerequisite: Electronics and Computer Technology 64B. May be offered in Distance Education delivery format. 3 hours lecture, 3 hours laboratory. Transfer: CSU.

(Revise)
4 CRITICAL THINKING AND WRITING ABOUT LITERATURE 3 UNITS
Develops critical thinking, reading, and writing skills as they apply to the analysis of fiction (short stories and novel), poetry and drama. Prerequisite: English 1A (completed with a grade of “C” or higher). May be offered in Distance Education delivery format. 3 hours. Transfer: CSU, UC; CSU/GE: A3; IGETC: Area 1B group B; AA/AS.

34 INTERNATIONAL POETRY 3 UNITS
Introduction to classical, modern and contemporary international poetries in their original languages and in translations. Examination of modes of reading and writing poetry in relation to students’ cultural and language backgrounds. 3 hours. Transfer: CSU.

500 ENGLISH 0 UNITS
Supplemental reading, writing, and critical thinking experiences intended to develop ability to identify and apply concepts and skills used to read and write college-level prose. Emphasis on

CHANGES TO PAGE 82

ENGLISH AS A SECOND LANGUAGE (ESL)

(Revise units and description)
113 INTRODUCTION TO COMPUTER ASSISTED LANGUAGE LEARNING 1 UNIT
Basic computer vocabulary and operating skills to enhance acquisition of English vocabulary, reading and writing. 3 hours laboratory.

(Add)
500 ESL 0 UNITS
ESL reading, writing, and grammar practice intended to develop ability to identify and apply concepts and skills used to read and write college-level prose. Emphasis on developing an in-depth understanding of concepts and assignments in the corresponding corequisite class. Open-entry/open-exit. Corequisite: ESL 110A, 110B, 110C, 110D. Variable hours laboratory.

ETHNIC STUDIES

ETHNIC STUDIES TRANSFER PROGRAM AND ASSOCIATE IN ARTS DEGREE

FRESHMAN YEAR FALL SPRING
(Revise Title)
History 22 (Mexican American History in the Development of U.S. History from Pre-Columbian Period to the Present) .... 3

FIRE TECHNOLOGY (FT)

CHANGES TO PAGE 83 & 84

FIRE TECHNOLOGY ASSOCIATE IN ARTS DEGREE

FRESHMAN YEAR FALL SPRING
(Revise Title)
Health 61 (First Responder) ......................... 2 1/2

(Revise Title)
Fire Technology 91B (First Responder–Operational Level) .......................................................... 1 1/2

(Revise Title)
Fire Technology 91C (I-200 Basic ICS (Incident Command System)) ........................................ 1 1/2

(Revise Title)
Health 81 (Emergency Medical Technician Basic) ............ 6 1/2

FIRE PREVENTION INSPECTOR ASSOCIATE IN ARTS DEGREE

FRESHMAN YEAR FALL SPRING
(Change from)
Fire Technology 14A (Fire Investigation 1A)
(To)
Fire Technology 74A (Fire Investigation 1A)

SOHOMORE YEAR FALL SPRING
(Add)
Administration of Justice 90
(Reserve Module A: Arrest and Control) .................. 4

(Revise Title)
Fire Technology 72 (Fire Management) ......................... 2

(Revise Title)
Fire Technology 91B (First Responder–Operational Level) .......................................................... 1 1/2

(Revise Title)
Fire Technology 91C (I-200 Basic ICS (Incident Command System)) ........................................ 1 1/2

FIRE TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

FRESHMAN YEAR FALL SPRING
(Revise Title)
Health 61 (First Responder) ......................... 2 1/2

(Revise Title)
Fire Technology 91C (I-200 Basic ICS (Incident Command System)) ........................................ 1 1/2

(Revise Title)
Health 81 (Emergency Medical Technician Basic) ............ 6 1/2
the student's awareness of human-environment relationships and changes in the landscape induced by human activities. Geographers pursue careers in many diverse fields, including environmental conservation, land use planning, global change research, teaching, and applications of geographic information systems.

**GEOGRAPHY**

**ASSOCIATE IN ARTS DEGREE**

PENDING STATE APPROVAL

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
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<tbody>
<tr>
<td>Geography 1 (Introduction to Physical Geography)</td>
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<td>Geography 2 (Cultural Geography)</td>
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<td>Geography 8 (Introduction to Weather and Climate)</td>
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<tr>
<td>Geography 20 (Introduction to Geographic Information Systems)</td>
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<td>Elective</td>
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Total | 19-20 |

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<th>General Education Courses</th>
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<tr>
<td>For specific General Education courses refer to catalog section on General Requirements</td>
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<tr>
<td>Total minimum units required</td>
</tr>
</tbody>
</table>

*Select from the following for an additional 3-4 units

- Anthropology 3 (Social and Cultural Anthropology) 3 units
- Economics 1 (Principles of Microeconomics) 3 units
- Geography 3 (Economic Geography) 3 units
- Geography 11 (Geography of the San Francisco Bay Area) 3 units
- Geography 12 (Geography of California) 3 units
- Geology 1A (Physical Geology) 4 units
- Geology 10 (Introduction to Geology) 3 units
- Geology 12 (Introduction to Oceanography) 3 units

**Changes to Page 85**

Add

Fire Technology 74A (Fire Investigation 1A) 2 units

Administration of Justice 90 (Reserve Module A: Arrest and Control) 4 units

Delete

Industrial Technology 74 (Measurements and Calculations) 3 units

Revise Title

Add

Fire Technology 72 (Fire Management) 2 units

Revise Title

Fire Technology 91B (First Responder—Operational Level) 1½ units

Revise Title

Fire Technology 91C (I-200 Basic ICS (Incident Command System)) 1½ units

Total 42 units

**Changes to Page 88**

Spanish

**ASSOCIATE IN ARTS DEGREE**

<table>
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<th>SOPHOMORE YEAR</th>
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<tr>
<td>History 22 (Mexican American History in the Development of U.S. History from Pre-Columbian Period to the Present)</td>
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</tbody>
</table>

**Changes to Page 89**

Add

DEGREE: AA—GEOGRAPHY

Chabot College offers an Associate in Arts Degree in Geography to introduce students to principles, theory, and applied methods of spatial analysis in studying both the natural and human environment. The program in Geography is designed to develop...
CHABOT COLLEGE CATALOG ADDENDUM 2004-2006

(Curriculum Changes 2004-05)

(Revise description)
61 EMERGENCY RESPONSE 2\2 UNITS

...Successful completion of the knowledge and skills tests qualifies for a National Safety Council First Responder Certificate and Professional Rescuer CPR card...

History (HIST)

Changes to Page 96

(Revise)
7 U.S. HISTORY THROUGH RECONSTRUCTION 3 UNITS

A survey of United States history from its pre-colonial, indigenous origins through the end of Reconstruction. Emphasis on (1) distinctively American patterns of political, economic, social, intellectual and geographic developments, (2) the interaction amongst and the experiences of diverse racial, ethnic and socioeconomic groups in American history, and (3) the evolution of American institutions and ideals including the U.S. Constitution, representative democratic government, the framework of California state and local government, and the relationships between state/local government and the federal government. May be offered in Distance Education delivery format. 3 hours. Transfer: CSU, UC; CSU/GE: D6, AI, Group A; IGETC: Area 4, AI, Group A; AA/AS; (CAN HIST 7) with HIST 8: (CAN HIST SEQ B).

(Revised description)
8 U.S. HISTORY SINCE RECONSTRUCTION 3 UNITS

A survey of United States history from 1877 to the present with a special emphasis on the interaction amongst and the experiences of diverse racial/ethnic (African Americans, European Americans, Native Americans, Chicano/Latino Americans, Asian Americans, and Middle Eastern Americans), gender and socioeconomic groups in American History. Includes analysis of (1) the U.S. Constitution as a living document in the context of historical change, and (2) significant issues related to California state and local governments. May be offered in Distance Education delivery format. 3 hours. Transfer: CSU, UC; CSU/GE: D6, AI, Group B; IGETC: Area 4, AI, Group B; AA/AS; (CAN HIST 10) with HIST 7: (CAN HIST SEQ B).

(Revised description)
12 HISTORY OF CALIFORNIA 3 UNITS

Historical development of California, including Spanish exploration and settlement and the Mexican Revolution. Transformation of California under United States control: the American conquest, the Gold Rush, and dynamic expansion to the present day. Includes Native Americans, Mexican Americans, European Americans, Asian Americans and African Americans groups. Emphasis on political, economic, and social factors which transformed American California from a relatively simple rural society to a highly complex ethnically diversified agricultural-industrial system. Analysis of historical issues and current problems. 3 hours. Transfer: CSU, UC; CSU/GE: D6, AI, Group B; IGETC: Area 4, AI, Group B; AA/AS.

(Revise transferability)
19 HISTORY OF MODERN CHINA AND JAPAN FROM LATE 19TH TO EARLY 20TH CENTURY 3 UNITS

...Transfer: CSU, UC; CSU/GE: D3, D6; IGETC: Area 4; AA/AS.

Applies to 2004-05 only...

See the 2005-06 section for revisions...

(Title change and revised description)
20 AFRICAN-AMERICAN HISTORY THROUGH RECONSTRUCTION 3 UNITS

A survey of African-American history from its origins in West Africa through the end of Reconstruction. Emphasis on (1) social, political and economic structures of West African societies, (2) the process of enslavement and institutionalization of slavery in America, (3) the formation of and diversity within African-American communities and culture, (4) the social battle against slavery including slave resistance and abolitionism, (5) the political struggle to create free territories and States, particularly in the west and California, and its relationship both to early African-American efforts to take and shape freedom and the continued regional dissension that leads to the Civil War, and (6) how freedom is achieved and created during Reconstruction. 3 hours. Transfer: CSU, UC; CSU/GE: D3, D6, AI, Group A; IGETC: Area 4, AI, Group B; AA/AS.

(Title change and revised description)
21 AFRICAN-AMERICAN HISTORY SINCE RECONSTRUCTION 3 UNITS

Survey of the major themes and issues of the history of African Americans. Emancipation and African American attempts to assert and define their freedom. Themes that define the African-American experience after slavery. Freedom and Reconstruction, the imposition of Jim Crow, African-American modern political organization and cultural movements, migration and urbanization, African-American participation in foreign conflicts, the Civil Rights movement and its aftermath. 3 hours. Transfer: CSU, UC; CSU/GE: D3, D6, AI, Group B; IGETC: Area 4, AI, Group B; AA/AS.

(Title change and revised description)
22 MEXICAN AMERICAN HISTORY IN THE DEVELOPMENT OF U.S. HISTORY FROM PRE-COLUMBIAN PERIOD TO THE PRESENT 3 UNITS

Integration of Mexican American history and United States history and politics. Mexican American history from the pre-Columbian period through the present, including the development and experience of political, cultural and economic institutions within the context of the United States. Comparison of the experiences of Mexican Americans with other diverse social, racial and ethnic groups in American history. Major periods include European colonization, native cultures and slavery, the U.S.-Mexico War, industrialization of the United States, westward movement, racial and ethnic relations, and political
INTERNATIONAL STUDIES

(Revised title)

(2) Latin American Studies Options: History 22 (Mexican American History in the Development of U.S. History from Pre-Columbian Period to the Present)...

CHANGES TO PAGE 100

INTERNATIONAL STUDIES
TRANSFER PROGRAM AND ASSOCIATE IN ARTS DEGREE

CHANGES TO PAGE 102

LIBRARY STUDIES (LIBS)

(Rubric change from)

LIBRARY STUDIES (LIBR)

(To)

LIBRARY STUDIES (LIBS)

MASS COMMUNICATIONS (MCOM)

CHANGES TO PAGE 106

(Add)

500 NEWSPAPER PRODUCTION 0 UNITS
Extended study of various aspects of newspaper production, including design and layout, computer applications, digital photography, advertising, and news, feature, editorial, and headline writing. Corequisite: Mass Communications 14 or 15. Variable hours laboratory.

CHANGES TO PAGE 97

(Revise transfer)

30 RELIGION IN CONTEMPORARY CULTURE 3 UNITS
...Transfer: CSU; CSU/GE: C2; IGETC: Area 3B; AA/AS.

CHANGES TO PAGE 98

(Add)

INDEPENDENT STUDY

INDEPENDENTSTUDY 1/2 - 2 UNITS
Independent study may be contracted through an instructor for research, field experience or skill development. Students must make arrangements with the instructor, as well as complete the Independent Study Contract (available from instructors or academic departments). The instructor monitors academic progress as the student completes the coursework within the guidelines of the agreement. Independent study may be offered under any subject area contained in the Catalog using the number 29.

MATHEMATICS (MATH)

(Revised description)

2 CALCULUS II 5 UNITS
Continuation of differential and integral calculus, including transcendental, inverse, and hyperbolic functions. Techniques of integration, parametric equations, polar coordinates, sequences, power series and Taylor series. Introduction to three-dimensional coordinate system and operations with vectors. Primarily for mathematics, physical science, and engineering majors. Prerequisite: Mathematics 1 (completed with a grade of “C” or higher). 5 hours lecture, 0 – 1 hours laboratory. Transfer: CSU, UC; CSU/GE: B4; IGETC: Area 2; AA/AS, (CAN MATH 20); with MATH 1: (CAN MATH SEQ B); with MATH 1 and MATH 3: (CAN MATH SEQ C).
(Revised title, description)
22A JAZZ PIANO I 1 UNIT (May be repeated 3 times)
Voicings, chords, and guidelines for improvisation in the con-
temporary styles of the jazz pianist. Post bop-era, through mod-
ern to avant-garde piano playing in the jazz idiom. Strongly
recommended: Music 6. 4 hours laboratory. Transfer: CSU, UC.

(Add)
22B JAZZ PIANO II 1 UNIT (May be repeated 3 times)
Development of skills in jazz piano performance, notation, liter-
ature. Emphasis on further development of technique and per-
formance. Prerequisite: Music 22A (completed with a grade of
“C” or higher) or equivalent. 4 hours laboratory. Transfer: CSU, UC.

(Music)

Changes to Page 107

(Revised title, description)
12 INTRODUCTION TO LOGIC 3 UNITS
.. includes deductive validity, relation of ordinary languages to
symbolic logic, distinction between inductive and deductive
arguments, relation of truth to validity...

(Revised description)
20W PRE-CALCULUS WORKSHOP 3/4 - 1/2 UNIT
Laboratory, study group, collaborative workshop or computer
laboratory time for Pre-calculus Mathematics...

Changes to Page 111

(Title changes)
MUSIC
ASSOCIATE IN ARTS DEGREE

Freshman Year Fall Spring
Music 21A (Piano I) .............................................. 1
Music 21B (Piano II) .................................................. 1

*MUSIC Option
Music 23A (Voice I)
Music 23B (Voice II)

**Performance Option
Music 12 (Symphonic Band)
Music 14 (Jazz Ensemble)
Music 15 (Jazz Band)

Changes to Page 112 & 113

MUSIC APPLIED (MUSA)

(Revised title, description)
21A PIANO I 1 UNIT (May be repeated 3 times)
Beginning piano. Contemporary and classic approaches to play-
ing piano using basic scales, chords and music notation. Prereq-
quisite: Music 6 (completed with a grade of “C” or higher) or equivalent. 4 hours laboratory. Transfer: CSU, UC.

(Revised title, description)
21B PIANO II 1 UNIT (May be repeated 3 times)
Development of skills in piano performance, notation, litera-
ture. Emphasis on further development of technique and per-
formance. Prerequisite: Music 21A (completed with a grade of “C”
or higher) or equivalent. 4 hours laboratory. Transfer: CSU, UC.

Changes to Page 113 & 114

NURSING
ASSOCIATE IN ARTS DEGREE

Sophomore Year Fall Spring
Nursing 60B (Adult Health II) ................................. 6
Nursing 60C (Adult Health III) ............................... 3 1/2
Nursing 66 (Advanced Clinical Topics) ................. 1 1/2
Sociology * ............................................................... 3
(Revised)
SPECIAL APPLICATION REQUIRED:

Prerequisites: for admission to this program include: (1) completion of special application; (2) 2.7 overall college grade point average; (3) completion of Human Anatomy 1, Human Physiology 1, and Microbiology 1 (each of which includes a lab). Student must have received a "B" or higher in at least one of the science prerequisites and a "C" or higher in the remaining two.

Students who have completed two of the three prerequisite science courses prior to January 1 may submit an application prior to February 1. However, the following stipulations are in effect:

a. Evidence of current enrollment in the third prerequisite science course must be submitted with the application;

b. The third course must be verified as having been completed by the end of Spring Semester with a grade of "C" or higher and must meet the grade criteria for acceptance into the nursing program as outlined in item 3 of prerequisites. Selection of students is made by random selection of those who are qualified and is limited to the number of spaces available in the program.

Advanced standing status may be granted to students who have previously completed any portion of the defined nursing curriculum or its equivalent as determined by the Counselor/Coordinator for Applied Health or the Nursing Program Coordinator.

Changes to Pages 115 & 116

(Revision)
55 FUNDAMENTALS OF NURSING PRACTICE 9 UNITS
...Theory may be offered in Distance Education delivery format. 4 hours lecture...

(Revision)
56 ESSENTIALS OF NURSING CARE RELATED TO HUMAN GROWTH AND DEVELOPMENT ½ UNIT
...May be offered in Distance Education delivery format. 1 hour...

(Revision)
57 LEGAL-ETHICAL ISSUES IN NURSING ½ UNIT
...May be offered in Distance Education delivery format. 1 hour...

(Revision)
58 NURSING CARE FOR PATIENTS WITH BLOOD-BORNE INFECTIOUS DISEASE ½ UNIT
...May be offered in Distance Education delivery format. Lecture: 9 hours...

(Revision)
59 NURSING CARE OF THE CHILDBEARING FAMILY 8½ UNITS
...Theory may be offered in Distance Education delivery format. Lecture: 4 hours...

(Revision)
60A ADULTHEALTH I–BIOPHYSICAL PERSPECTIVES IN THE CARE OF THE ADULT CLIENT IN THE HOSPITAL AND THE COMMUNITY 8 UNITS
...Theory may be offered in Distance Education delivery format. Lecture: 4 hours...

(Revision)
60B ADULTHEALTH II 6 UNITS
...Theory may be offered in Distance Education delivery format. 4 hours lecture,...

(Revision)
60C ADULTHEALTH III 3½ UNITS
...Prerequisites: Physiology 2 and Physiology 2L (or equivalent) and all required nursing courses (or equivalent) in semesters one through three, and concurrent or prior enrollment in Nursing 73 (completed with a grade of “C” or “CR” or higher). Theory may be offered in Distance Education delivery format. 2 hours lecture,...

(Revision)
61 CLINICAL NUTRITION 1½ UNITS
...May be offered in Distance Education delivery format. 1½ hours. Transfer: CSU.

(Revision)
64 PHARMACOLOGICAL BASIS OF THERAPEUTICS 2½ UNITS
Introduction to the principles of drug therapy, clinical pharmacology, and toxicology; therapeutic agents and dosage forms in current use with the application of the nursing process. Prerequisites: Completion of Nursing 55, 56, 61, 69 and 74, (or the equivalent) with a “C” or higher. Satisfactory completion of or concurrent enrollment in Nursing 57, 58, 64, and 75 or possession of a valid California LVN license. May be offered in Distance Education delivery format. 2½ hours. Transfer: CSU.

(Revision)
66 ADVANCED CLINICAL TOPICS ½ UNIT
...May be offered in Distance Education delivery format. 1½ hours, 6 weeks. Transfer: CSU.
30

CURRICULUM CHANGES 2004-05

APPLIES TO 2004-05 ONLY.

SEE THE 2005-06 SECTION FOR REVISIONS.

69 GERONTOLOGICAL NURSING 1 UNIT
Nursing care of the aging client. Physical and psychosocial changes which occur with the aging process. Focus on successful adaptation to aging with emphasis on maintaining or regaining optimal health. Strategies for caring for the client who is coping with altered life styles as a result of problems associated with aging. Theories of aging and cultural influences on the aging process. Corequisite: Nursing 55, 61, 74 (or satisfactory completion of equivalent) or possession of valid California LVN license. May be offered in Distance Education delivery format. 1 hour. Transfer: CSU.

70 NURSING THEORY: LVN-RN TRANSITION 1½ UNITS
...Transfer CSU.

73 INTRAVENOUS THERAPY 1 UNIT
...May be offered in Distance Education delivery format. 2 hours...

74 THE NURSING CARE PLAN 1 UNIT
Introduction to the components of the nursing process: assessment, nursing diagnosis, planning, implementation, and evaluation with clinical applications of Roy’s adaptation framework for nursing as modified by Chabot College nursing facility. Prerequisite: concurrent enrollment in nursing program. May be offered in Distance Education delivery format. 2 hours, 9 weeks. Transfer: CSU.

75 FLUID AND ELECTROLYTES 1 UNIT
...May be offered in Distance Education delivery format. 1 hour.

1 NUTRITION 3 UNITS

57 NUTRITION FOR FITNESS AND FAT LOSS 3 UNITS
Study the role that nutrition and activity play in developing fitness and lowering body fat. Major concepts of fitness and nutrition. Assessment of current fitness level, designing a personal fitness and nutritional plan. May be offered in Distance Education delivery format. (May not receive credit if Physical Education 57 has been completed.) 3 hours. Transfer: CSU; CSU/GE: E.

58 NUTRITION FOR SPORTS AND HUMAN PERFORMANCE 3 UNITS
An investigation into the role nutrition plays in sports and human achievement. Determination of optimum hydration and nutrient intake in relation to activity. May be offered in Distance Education delivery format. (May not receive credit if Physical Education 58 has been completed.) 3 hours. Transfer: CSU; CSU/GE: E.

PHOTOGRAPHY (PHOT)

CHANGES TO PAGE 118

500 PHOTOGRAPHY STUDIO 0 UNITS
Extended practice in the photography studio to enable students to increase their skills in both darkroom and pictorial techniques. Corequisite: Photography 50, 51, 60, 61, 62, 64A, 65. Variable units laboratory.

PHYSICAL EDUCATION (PHED)

CHANGES TO PAGE 120

COACHING CERTIFICATE OF ACHIEVEMENT
FALL SPRING

(Semester changes from Fall to Spring)
Physical Education 8 (Sport in Society) or Physical Education 15 (Peak Performance through Mental Training) ................................. 3

(Add Option)
Physical Education 22 (Health & Fitness Assessments) or Physical Education 28 (Components of Physical Fitness-the Human Body) or Physical Education 60 (Sports Management) .................................................. 3

(Add units)
Physical Education 23 (Sports Officiating) or Physical Education 16 (College Success for Athletes) ...................................................... 1-2

Total ........................................................................ 21½-23
FITNESS INSTRUCTOR
CERTIFICATE OF ACHIEVEMENT
FALL   SPRING

>Title change
Nutrition 1 (Nutrition) ........................................ 3

SPORTS INJURY CARE
CERTIFICATE OF ACHIEVEMENT
FALL   SPRING

>Add Option
Nutrition 1 (Nutrition) or
Nutrition 58 (Nutrition for Sports and Athletic Performance) or
Physical Education 58 (Nutrition for Sports and Athletic Performance) .......... 3

CHANGES TO PAGE 121

COACHING
CERTIFICATE OF COMPLETION
FALL   SPRING

>Add Option
Physical Education 22 (Health & Fitness Assessments) or
Physical Education 28 (Components of Physical Fitness-the Human Body) or
Physical Education 60 (Sports Management) .......... 3

>Delete
Physical Education 6 (Physical Fitness Assessments) ........................................ 1/2

FITNESS INSTRUCTOR
CERTIFICATE OF COMPLETION
FALL   SPRING

>Title change
Nutrition 1 (Nutrition) ........................................ 3

CHANGES TO PAGE 123 & 124

>Add
28L COMPONENTS OF PHYSICAL FITNESS - LABORATORY 1 UNIT
Implementation of the fundamentals of physical fitness and basic strength training principles as an intern in the Chabot College Fitness and/or Chabot Strength Training Center. Prerequisite or Corequisite: Physical Education 28. 3 hours laboratory.

/Add
57 NUTRITION FOR FITNESS AND FAT LOSS 3 UNITS
Study the role that nutrition and activity play in developing fitness and lowering body fat. Major concepts of fitness and nutrition. Assessment of current fitness level, designing a personal fitness and nutritional plan. May be offered in Distance Education delivery format. (May not receive credit if Nutrition 57 has been completed.) 3 hours. Transfer: CSU; CSU/GE: E.

/Add
58 NUTRITION FOR SPORTS AND HUMAN PERFORMANCE 3 UNITS
An investigation into the role nutrition plays in sports and human achievement. Determination of optimum hydration and nutrient intake in relation to activity. May be offered in Distance Education delivery format. (May not receive credit if Nutrition 58 has been completed.) 3 hours. Transfer: CSU; CSU/GE: E.

/Add
60 SPORTS MANAGEMENT 3 UNITS
Introduction into the field of sports management. Career opportunities, human resource management, leadership, strategic planning, teamwork, ethics and values, marketing and advertising, finance, managing facilities, sports and the law, economics of sport and community impact. May be offered in Distance Education delivery format. 3 hours. Transfer: CSU.

/Add
500 ATHLETIC TRAINING 0 UNITS
Pre-season medical screening. Injury prevention measures such as taping, wrapping and athlete education. Injury treatments including ultrasound, electrical muscle stimulation and therapeutic exercise implementation and supervision. Variable hours laboratory. Corequisite: Physical Education 30-50.

POLITICAL SCIENCE (POLI)

CHANGES TO PAGE 125

/Add
1 INTRODUCTION TO AMERICAN GOVERNMENT 3 UNITS
Introduction to the historical development of American political ideals and institutions including the Federal and California Constitutions, civil liberties, civil rights, citizenship duties, political parties, participation and elections...

/Add
2 INTRODUCTION TO AMERICAN AND CALIFORNIA POLITICS 3 UNITS
**Changes to Page 126**

(Delete)

45 SELECTED TOPICS IN POLITICAL SCIENCE 2-3 UNITS

**Psychology (PSYC)**

(Delete)

4 BRAIN, MIND, AND BEHAVIOR 3 UNITS

**Changes to Pages 127-129**

**Psychology Counseling (PSCN)**

(Add)

**Degree:**

AA — PSYCHOLOGY-COUNSELING-HUMAN SERVICES (PENDING STATE APPROVAL)

AS — PSYCHOLOGY-COUNSELING-HUMAN SERVICES (PENDING STATE APPROVAL)

PSYCHOLOGY-COUNSELING-HUMAN SERVICES
ASSOCIATE IN ARTS OR
ASSOCIATE IN SCIENCE DEGREE
(PENDING STATE APPROVAL)

This degree has been designed to provide students an introduction to social and/or psychological theory, multicultural theory, and Psychology-Counseling skills needed to work as a service provider in a social service setting. Students will conduct self-assessment and self-reflection components as part of their skill sets. A self-assessment needs to be made in relationship to the culturally diverse community and world in which we currently live but also to evaluate the service provider's internalized values which may affect the provision of services in a non-judgmental process. Students completing this degree will investigate sociological and/or psychological theory, a variety of multicultural issues and concepts which can affect social service delivery, evaluate themselves within the context of the diverse culture, further their inquiry into a cultural area of personal interest, complete a course specifically targeted to Psychology-Counseling issues/skills as they relate to a multicultural community, and study case management skills and techniques related to Human Services.

**Freshman Year**

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<td>Sociology 1 (Principles of Sociology)</td>
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<td>Psychology-Counseling 13 (Multicultural Issues in Contemporary America)</td>
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Self-Assessment/Self-Reflection Course(s)* 3

Option Course** 3

**Sophomore Year**

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<td>Psychology 3 (Social Psychology)</td>
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<td>Sociology 2 (Social Problems)</td>
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<td>Psychology-Counseling 11 (Interpersonal Relationships)</td>
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<td>Psychology-Counseling 4 (Multiethnic/Cultural Communication)</td>
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<tr>
<td>Speech 11 (Intercultural Communication)</td>
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<tr>
<td>Psychology-Counseling 1 (Introduction to Psychology-Counseling in a Multicultural Environment)</td>
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<tr>
<td>Psychology 7 (Introduction to Counseling Theory and Skills)</td>
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<tr>
<td>Psychology-Counseling 2 (Introduction to Case Management for Human Services)</td>
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**Total** 26

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

**Total minimum units required** 60

*Select a total of 3 units from the following:

Psychology-Counseling 10 (Career and Educational Planning) 2 units

Psychology-Counseling 10A (Career Assessment Through Testing) 1 unit

Psychology-Counseling 12 (Self-Esteem for Success) 2 units

Psychology-Counseling 15 (College Study Skills) 2 units

Psychology-Counseling 16 (College and the Re-entry Woman) 3 units

Psychology-Counseling 17 (Intercultural Studies) 2 units

Psychology-Counseling 26 (College Success and the Chicano Experience) 1 unit

Psychology-Counseling 36 (Women in Transition) 1 unit

**Select a total of 3 units from the following options:

Anthropology 3 (Social and Cultural Anthropology) 3 units

Anthropology 5 (Cultures of the U.S.: Anthropological Perspectives on Race, Class, Gender and Ethnicity) 3 units

Early Childhood Development 60 (Teaching Special Needs Infants and Preschoolers) 3 units

English 21 (The Evolution of the Black Writer) 3 units

English 22 (Mexican American/Latino Literature of the U.S.) 3 units

English 32 (U.S. Women's Literature) 3 units

English 38 (Survey of Modern British Literature) 3 units

Foreign Language 1A (Beginning Foreign Language) 3 units

Health 4 (Women and Health) 3 units

Health 8 (Human Sexuality) 3 units

Music 5 (American Cultures in Music) 3 units

Psychology 6 (Abnormal Psychology) 3 units

Psychology 8 (Human Sexuality) 3 units

Psychology 12 (Life-Span Psychology) 3 units
13 MULTICULTURAL ISSUES IN CONTEMPORARY AMERICA 3 UNITS

...May be offered in Distance Education delivery format. 3 hours...

**Changes to Page 131**

(Revise title)

**Changes to Page 132**

(Revise transfer)

**Changes to Page 133**

(Change Rubric from SOC to SOCI)

**Changes to Page 134**

(Revise transfer)

Designed to illuminate the way students see their social world. Uses a sociological perspective: scientific study of human interaction and society, with emphasis on impact of groups on social behavior. Includes the systematic examination of culture, socialization, social organization, social class, race, gender, deviance, social change and empirical methodology. These content areas are woven throughout the fabric of the course, particularly as they affect the lives of at least three of the following groups: African Americans, Latino Americans, Asian Americans, Native Americans and/or women. May be offered in Distance Education delivery format. 3 hours. Transfer: CSU, UC; CSU/GE: DO; D; IGETC: Area 4; AA/AS; (CAN SOC 2).
THEATER ARTS (THEA)

APPLIES TO 2004-05 ONLY.

SEE THE 2005-06 SECTION FOR REVISIONS.

(Revise)
1A  THEORY AND PRACTICE OF ACTING 1  3 UNITS
Introduction to the techniques and theories of acting, explored through improvisation, exercises and scene study. Development of the physical and psychological resources for acting including relaxation, concentration, creativity, believability, and commitment. 3 hours. Transfer: CSU, UC; CSU/GE: C1; AA/AS; (CAN DRAM 8).

(Delete prerequisite)
30  DRAMA WORKSHOP 1-3 UNITS
(May be repeated 3 times)
Participation in experimental workshop plays, original student scripts, and other projects, possibly leading to scheduled performances. 3-9 hours laboratory. Transfer: CSU, UC.

(Add)
500  THEATER STUDIO 0 UNITS
Extended study of various topics from the Theater Performance courses. Emphasis on developing acting and performing skills. Corequisite: Theater Arts 1A, 1B, 5 or 47. Variable hours laboratory.

APPLIES TO 2004-05 ONLY.

SEE THE 2005-06 SECTION FOR REVISIONS.
Program and course changes in this section are 
effective beginning Fall Semester 2005.
Use them together with changes
in the 2004-2005 Section to update the
2003-2005 Chabot College Catalog.
GRADUATION REQUIREMENTS

(The following changes to Graduation Requirements refer to the printed 2003-05 Catalog; they supersede those published in the 2004-05 Addendum.)

CHANGES TO PAGE 17

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

A. LANGUAGE AND RATIONALITY
   Communications and Analytical Thinking
   (Add)
   History 12*
   Mathematics 54, 54L

B. NATURAL SCIENCE
   (Add)
   Chemistry 30B
   Physics 4B, 4C, 5

C. HUMANITIES
   (Add)
   English 34
   Photography 53A

D. SOCIAL AND BEHAVIORAL SCIENCES
   (Add)
   History 27*
   Political Science 2*
   *May be used to fulfill one area only.

E. HEALTH AND PHYSICAL EDUCATION
   2. Physical Education Complete 2 SEM UNITS
      (Add)
      Physical Education 4

AMERICAN INSTITUTIONS ..... Complete a minimum of 6 SEM UNITS

(Replace as follows)
   Select one course from Group A and one course from Group B
   Group A: History 7*, 20* or Political Science 1*
   Group B: History 8*, 12*, 21*, 22*, 25*, 27* Political Science 2*
   *May be used to fulfill one area only.

AMERICAN CULTURES
(Delete)
   Humanities 10
   Theater Arts 14

MATHEMATICS PROFICIENCY
(Add)
   Mathematics 54, 54L

CHANGES TO PAGE 19

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

A. LANGUAGE AND RATIONALITY
   Communications and Analytical Thinking
   (Add)
   History 12*
   Mathematics 54, 54L

B. NATURAL SCIENCE
   (Add)
   Chemistry 30B
   Physics 4B, 4C, 5

C. HUMANITIES
   (Add)
   English 34
   Photography 53A

D. SOCIAL AND BEHAVIORAL SCIENCES
   (Add)
   History 27*
   Political Science 2*
   *May be used to fulfill one area only.

E. HEALTH or AMERICAN INSTITUTIONS & PHYSICAL EDUCATION
   1. Health Education OR
      American Institutions: Complete 3 SEM UNITS
      (Replace as follows)
      Health 1, 4, Physical Education 18 or
      History 7*, 8*, 12*, 20*, 21*, 22*, 25*, 27* or
      Political Science 1*, 2*
      2. Physical Education . Complete 1 SEM UNIT
         (Add)
         Physical Education 4
   *May be used to fulfill one area only.

AMERICAN CULTURES
(Delete)
   Humanities 10
   Theater Arts 14

MATHEMATICS PROFICIENCY
(Add)
   Mathematics 54, 54L
Califomia State University (CSU)

Upper Division Transfer Requirements:
You are eligible for admission to the CSU if you:

(Revise paragraph)
- Completed or will complete 60* semester (90 quarter) or more CSU transferable units with an overall GPA of 2.0 or more CSU transferable units with an overall GPA of 2.0 or better.

(Add footnote)
*Some CSU institutions may allow 56 units. Check with individual campuses for their requirements.

Advanced Placement Program

Changes to Page 25

(Revise chart as follows)

<table>
<thead>
<tr>
<th>AP Examination</th>
<th>AP Score</th>
<th>Subject Credit Given For:</th>
<th>Prerequisite Met For the Following Course(s)</th>
<th>Chabot Credits Issued For Graduation</th>
<th>1. AA/AS GE</th>
<th>2. CSU/GEB</th>
<th>3. IGETC Requirements Met</th>
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<tr>
<td>CHEMISTRY</td>
<td>3, 4, 5</td>
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<td>Biology 2A Chemistry 1B Engineering 45</td>
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<td>2. 6 units toward Area B1 and B3 (lab)</td>
<td>3. Satisfies Area 5, Group A (no lab units)</td>
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<td>1. Satisfies Area D</td>
<td>2. 3 units toward Area D2</td>
<td>3. 3 units toward Area 4</td>
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</table>

Degree Programs and Transfer Majors

(The following changes to Degree Programs and Transfer Majors refer to the printed 2003-05 Catalog; they supersede those published in the 2004-05 Addendum.)

Changes to Pages 27-29

(Revise Titles)

<table>
<thead>
<tr>
<th>Program</th>
<th>Transfer</th>
<th>Associate in Arts</th>
<th>Associate in Science</th>
<th>Certificate of Achievement</th>
<th>Certificate of Completion</th>
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<td>(From) Fire Service Technology (To) Fire Technology</td>
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(Add)

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<th>Transfer</th>
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<th>Associate in Science</th>
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<th>Certificate of Completion</th>
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<td>Automotive Drivetrain Technology</td>
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<td>Automotive Engine Machining</td>
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<td>Inspection and Pipe Welding</td>
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<td>Welding</td>
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*Replaces the degrees starred in the next chart.
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<th>Program</th>
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<th>Associate in Science</th>
<th>Certificate of Achievement</th>
<th>Certificate of Completion</th>
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<tr>
<td>*Business (Emphasis in International Business)</td>
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<td>*Business (Emphasis in Marketing)</td>
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<td>Electronics Audio/Video Technology</td>
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<tr>
<td>Oracle/SQL/SQL Server Specialist</td>
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<tr>
<td>Web Site Development Specialist</td>
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</table>
ART (ART)

Changes to Page 38

(Revise)
5 ART HISTORY—RENAISSANCE TO MODERN
...From early renaissance through high renaissance...Post-Impressionism, and 20th Century...

(Revise)
6 MUSEUM STUDIES
Historical overview of museums and practical, hands-on instruction in skills basic to museum and gallery workers. Held in Chabot’s student art gallery with visits to local museums, galleries and/or historical societies. Social role of museums, art handling, curating, registration, preparation, exhibition and art education. Culminates in the hanging of an on-campus art exhibition.
Prerequisites: any two of the following four courses: Art 1, Art 4, Art 5, or Art 67/Photography 67 (completed with a grade of "C" or higher). 2 hours lecture, 4 hours laboratory. Transfer: CSU; CSU/GE:C1; AA/AS.

AUTOMOTIVE TECHNOLOGY (ATEC)

Changes to Page 40 - 42

(Revise) 13A ACRYLIC PAINTING—BEGINNING I
Projects in acrylic painting with an emphasis on fundamental painting techniques and approaches...

(Revise) 13B ACRYLIC PAINTING—BEGINNING II
Projects in acrylic painting with an emphasis on fundamental painting techniques and approaches. Prerequisite: Art 13A or equivalent (completed with a grade of "C" or higher). 2 hours lecture, 4 hours studio. Transfer: CSU, UC.

(Revise) 13C ACRYLIC PAINTING—ADVANCED I
...Prerequisite: Art 13B or equivalent (completed with a grade of "C" or higher). 2 hours lecture, 4 hours studio. Transfer: CSU, UC.

(Revise) 13D ACRYLIC PAINTING—ADVANCED II
...Prerequisite: Art 13C or equivalent (completed with a grade of "C" or higher). 2 hours lecture, 4 hours studio. Transfer: CSU, UC.

DEGREE:
AS—AUTOMOTIVE TECHNOLOGY

CERTIFICATE OF ACHIEVEMENT (ALL PENDING STATE APPROVAL)
AUTOMOTIVE MAINTENANCE TECHNOLOGY

AUTOMOTIVE CHASSIS TECHNOLOGY
AUTOMOTIVE DRIVETRAIN TECHNOLOGY
AUTOMOTIVE ENGINE MACHINING
AUTOMOTIVE ENGINE PERFORMANCE TECHNOLOGY

(Delete degree)
AUTOMOTIVE DIAGNOSTIC TECHNOLOGY
ASSOCIATE IN SCIENCE DEGREE

The Automotive Technology Degree involves completing the core curriculum plus any one of the following Certificates: Automotive Engine Performance Technology, Automotive Engine Machining, Automotive Drivetrain Technology, Automotive Chassis Technology, or Automotive Maintenance Technology and the General Education requirements. Only one AS Degree in Automotive Technology may be earned.

FRESHMAN YEAR

AUTOMOTIVE TECHNOLOGY
ASSOCIATE IN SCIENCE DEGREE

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

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

These courses are recommended as preparation for the following California State and BAR tests for:
* Smog Check Technician License
*** Brake Adjusters License
**** Air Conditioning Refrigeration Recovery and Recycling Certification
Emphasis 1 - Maintenance, add:
   Automotive Technology 61A ..................... 4 units
   Automotive Technology 64A ..................... 3 units
   Automotive Technology 64B ..................... 3 units
   Automotive Technology 71
Or Automotive Technology 71A and
   Automotive Technology 71B. ............ 8 units

Emphasis 2 - Chassis, add:
   Automotive Technology 63B ..................... 3 units
   Machine Tool Technology 60A ................. 4 units

Emphasis 3 - Drivetrain, add:
   Automotive Technology 61A ..................... 4 units
   Automotive Technology 63B ..................... 3 units
   Automotive Technology 64B ..................... 3 units

Emphasis 4 - Engine Machining, add:
   Automotive Technology 63B ..................... 3 units
   Machine Tool Technology 60A .................. 4 units
   Automotive Technology 65*** (Automotive
   Breaking Systems) ............................................ 3
   Welding Technology 70 ............................ 3
   (Introduction to Welding) ............................ 3
   Automotive Technology 62**** ......... 2
   (Automotive Air Conditioning
   Cooling and Heating Systems) .............. 2
   Automotive Technology 66 ..................... 2
   (Automotive Steering, Suspension, and
   Alignment Systems) ................................. 2
   Total ................................................................ 35

These courses are recommended as preparation for the following California State and BAR tests for
   * Smog Check Technician License
   ** Lamp Adjuster License
   *** Brake Adjusters License
   **** Air Conditioning Refrigeration Recovery and Recycling Certification

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

(New certificate)

AUTOMOTIVE CHASSIS TECHNOLOGY
CERTIFICATE OF ACHIEVEMENT
PENDING STATE APPROVAL

FALL SPRING
Automotive Technology 60A* 
   (Automotive Electrics/Electronics I) ........ 4
Automotive Technology 65*** (Automotive
   Breaking Systems) ....................................... 3
Automotive Technology 66 
   (Automotive Steering, Suspension, and
   Alignment Systems) ................................. 3
Industrial Technology 74 or 
   Equivalent/Competency 
   (Measurements and Calculations) .......... 3
Welding Technology 70 
   (Introduction to Welding) ............... 2
Total ............................................................. 20
These courses are recommended as preparation for the following California State and BAR tests for
* Smog Check Technician License
*** Brake Adjusters License

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

(New certificate)

AUTOMOTIVE DRIVE TRAINE TECHNOLOGY
CERTIFICATE OF ACHIEVEMENT
PENDING STATE APPROVAL

FALL SPRING

Automotive Technology 50
(Automotive Fundamentals) .................... 2 1/2
Automotive Technology 60A*
(Automotive Electrics/Electronics I) .......... 4
Automotive Technology 64A
(Manual Drivetrain and Axle Assemblies) ... 3
English 1A (Critical Reading and Composition),
or English 52A (Essentials of Communication),
or English 70
(Report Writing), or Equivalent/ Competency ........................................ 3
Automotive Technology 64B (Automatic Transmission/Transaxle Assemblies) ................ 3
Industrial Technology 74 or Equivalent/Competency (Measurements and Calculations)...................... 3
Welding Technology 70
(Introduction to Welding)................................. 2

Total ........................................................................ 20 1/2

This course is recommended as preparation for the following California State and BAR tests for
* Smog Check Technician License

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

(New certificate)

AUTOMOTIVE ENGINE MACHINING
CERTIFICATE OF ACHIEVEMENT
PENDING STATE APPROVAL

FALL SPRING

Automotive Technology 50
(Automotive Fundamentals) ..................... 2 1/2
Automotive Technology 63A (Introduction to Engines and Machining Processes) .......... 3
English 1A (Critical Reading and Composition),
or English 52A (Essentials of Communication),
or English 70
(Report Writing), or Equivalent/ Competency ........................................ 3

Total ........................................................................ 3

Industrial Technology 74 or Equivalent/Competency
(Measurements and Calculations).................. 3
Automotive Technology 63B (Engines,
Machining and Assembly Processes) ................ 3
Machine Tool Technology 60A
(Machine Tool Technology I).............................. 4
Welding Technology 70
(Introduction to Welding)................................. 2

Total ........................................................................ 40

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)

AUTOMOTIVE ENGINE PERFORMANCE TECHNOLOGY
CERTIFICATE OF ACHIEVEMENT
PENDING STATE APPROVAL

FRESHMAN YEAR FALL SPRING

Automotive Technology 50
(Automotive Fundamentals) .................... 2 1/2
Automotive Technology 60A***
(Automotive Electrics/Electronics I) .......... 4
Automotive Technology 61A*
(Fuel Induction Systems) ......................... 4
English 1A (Critical Reading and Composition),
or English 52A (Essentials of Communication),
or English 70
(Report Writing), or Equivalent/ Competency ......................................... 3
Automotive Technology 71 */**
(Powertrain and Vehicle Performance)
Or Automotive Technology
71A (Powertrain and Vehicle Performance I)
and Automotive Technology 71B (Powertrain and Vehicle Performance II) ................ 8
Automotive Technology 62****
(Automotive Air Conditioning Cooling and Heating Systems) ................................. 2 1/2
Industrial Technology 74 or Equivalent/Competency
(Measurements and Calculations)...................... 3

SOHOMORE YEAR FALL SPRING

Automotive Technology 63A (Introduction to Engines and Machining Processes) .......... 3
Automotive Technology 68 (California BAR Basic and Advanced Clean Air Car Course) 5
Automotive Technology 63B (Engines,
Machining and Assembly Processes) ................ 3
Welding Technology 70
(Introduction to Welding)................................. 2

Total ........................................................................ 40
These courses are recommended as preparation for the following California State and BAR tests for:

* Smog Check Technician License
** Lamp Adjuster License
*** Brake Adjusters License
**** Air Conditioning Refrigeration Recovery and Recycling Certification

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

(Revised)

60A AUTOMOTIVE ELECTRICAL/ELECTRONICS I 4 UNITS
(May be repeated 3 times)
Automotive electrical/electronic systems. Basic electrical circuits, components, battery, starting, charging, and basic wiring systems. Electrical components and the use of basic wiring diagrams for trouble shooting systems. Repair of wiring circuits and correct use of diagnostic equipment. Prerequisite: Automotive Technology 50 or 55 (may be taken concurrently). Strongly recommended: Automotive Technology 61A, Industrial Technology 74.

2 1/2 hours lecture, 5 1/2 hours laboratory.

60B AUTOMOTIVE ELECTRICAL/ELECTRONICS II 3 1/2 UNITS
(May be repeated 3 times)
Continuation of Automotive Technology 60A with emphasis on diagnosis and repair of electrical/electronic components including computer controlled circuits/systems using schematics, diagnostic procedures and equipment; headlamp adjusting and repair. May not receive credit if Automotive Technology 71 has been completed. Prerequisite: Automotive Technology 60A or equivalent. 2 hours lecture, 5 hours laboratory.

(Revised title and description)

61A FUEL INDUCTION SYSTEMS 4 UNITS
(May be repeated 3 times)
Continuation of Automotive Technology 60A with emphasis on diagnosis and repair of electrical/electronic components including computer controlled circuits/systems using schematics, diagnostic procedures and equipment; headlamp adjusting and repair. May not receive credit if Automotive Technology 71 has been completed. Prerequisite: Automotive Technology 60A or equivalent. 2 hours lecture, 5 hours laboratory.

61B FUEL INDUCTION, EMISSION AND COMPUTER CONTROL SYSTEMS II 3 1/2 UNITS
(May be repeated 3 times)
Continuation of Automotive Technology 61A with emphasis on emission control, fuel injection and computer control systems.

63A INTRODUCTION TO ENGINES AND MACHINING PROCESSES 3 UNITS
(May be repeated 3 times)
Diagnosis, inspection and repair of various engine types; machining operations, use of instruments and automotive machinist equipment in repairing engines, valve train assemblies and cylinder head reconditioning, cooling and lubrication system fundamentals. Prerequisite: Automotive Technology 50 (may be taken concurrently) or equivalent. Strongly recommended: Industrial Technology 74. 1 1/2 hours lecture, 5 hours laboratory. Transfer: CSU.

63B ENGINES, MACHINING AND ASSEMBLY PROCESSES 3 UNITS
(May be repeated 3 times)
Continuation of Automotive Technology 63A with emphasis on cylinder head assembly, camshaft design and servicing, inspection, machining operations, and reconditioning of engine blocks including final assembly and installation of engines. Prerequisite: Automotive Technology 63A (completed with a grade of "C" or higher), or equivalent. 1 1/2 hours lecture, 5 hours laboratory. Transfer: CSU.

64A MANUAL DRIVE TRAIN AND AXLE ASSEMBLIES 3 UNITS
(May be repeated 3 times)
Diagnosis, inspection, repair, and adjustment of automotive manual drive train and axle assemblies. Includes manual transmissions/transaxles, final drives, rear axle assemblies, clutches, viscous couplings, two, four and all-wheel drive assemblies. Prerequisite: Automotive Technology 50 (may be taken concurrently) or equivalent. Strongly recommended: Industrial Technology 74. 1 1/2 hours lecture, 5 hours laboratory. Transfer: CSU.

64B AUTOMATIC TRANSMISSION/TRANSAXLE ASSEMBLIES 3 UNITS
(May be repeated 3 times)
Diagnosis, inspection, repair, and adjustment of automatic transmission/transaxle assemblies. Includes the study of torque converters, friction materials, hydraulics, gear trains, manual and electronic controls. Prerequisite: Automotive Technology 50 (may be taken concurrently) or equivalent. Strongly recommended: Industrial Technology 74 (may be taken concurrently). 1 1/2 hours lecture, 5 hours laboratory. Transfer: CSU.
(Revised title and description)
65  AUTOMOTIVE BRAKING SYSTEMS  3 UNITS
(May be repeated 3 times)
Diagnosis, inspection, repair, and adjustment of modern automotive brakes and anti-lock braking systems. Includes theory of operation, the study of basic laws of hydraulics, methods of repair, and diagnosis, brake service equipment. Prerequisite: Automotive Technology 50 (May be taken concurrently) or equivalent. Strongly Recommend: Industrial Technology 74 (may be taken concurrently). 1 1/2 hours lecture, 5 hours laboratory. Transfer: CSU.

(Revised title and description)
66  AUTOMOTIVE STEERING, SUSPENSION, AND ALIGNMENT SYSTEMS  3 UNITS
(May be repeated 3 times)
Diagnosis, inspection, repair, and adjustment of modern automotive steering, suspension and alignment systems. Includes theory of operation, the study of common automotive steering and suspension systems, wheel alignment principles, methods of diagnosis, adjustment and repair, suspension service equipment. Prerequisite: Automotive Technology 50 (may be taken concurrently) or equivalent. Strongly Recommend: Automotive Technology 65, Industrial Technology 74 (may be taken concurrently). 1 1/2 hours lecture, 5 hours laboratory. Transfer: CSU.

(Revised title and description)
68  CALIFORNIA BAR BASIC AND ADVANCED CLEAN AIR CAR COURSE  5 UNITS
(May be repeated 3 times)
Motor vehicle emission inspection and maintenance. Includes the Bureau of Automotive Repair (BAR) requirements for the Basic Clean Air Car Course (BCACC) and the Advanced Clean Air Car Course (ACACC). The BCACC includes the current updates and OBDII requirements. The ACACC includes the Dyno Transition and Advanced Emissions Diagnosis requirements. Required for eligibility to take the State Licensing exam at completion of the course: one year trade experience in emissions/tune up, or nine semester units (13 quarter units) in Automotive Technology, or 180 hours at an accredited automotive school. Automotive Service Excellence (ASE) certification in the Electrical (A6), Engine Performance (A8), and Advanced Engine Performance (L1) also required in order to take the State Exam. The BAR A6, A8, and L1 ASE alternative courses are not included in this course. 4 hours lecture, 4 hours laboratory.

(Revised title and description)
70  INTRODUCTION TO AUTOMOTIVE SERVICE  2 UNITS
(May be repeated 3 times)
Designed for non-majors, overview of major components and systems of the automobile, including the engine, fuel, electrical, drive train, brake, and suspension systems, basic service procedures discussed. 1 hour lecture, 3 hours laboratory. Transfer: CSU.

(Add)
71  POWERTRAIN AND VEHICLE PERFORMANCE  8 UNITS
(May be repeated 3 times)
Continued study of electrical/electronic and fuel control systems, including engine management systems, emission control systems, emissions testing, drive ability and vehicle performance diagnosis and repair. May not receive credit if Automotive Technology 60B and 61B have been completed. Prerequisites: Automotive Technology 60A and 61A. 5 hours lecture, 11 hours laboratory.

(Add)
71A  POWERTRAIN AND VEHICLE PERFORMANCE I  4 UNITS
(May be repeated 3 times)
Continued study of electrical and electronic systems, including computer management systems, drivability and vehicle performance diagnosis and repair related to electrical system problems. May not receive credit if Automotive Technology 71 has been completed. Prerequisites: Automotive Technology 60A and 61A. 2 1/2 hours lecture, 5 1/2 hours laboratory.

(Add)
71B  POWERTRAIN AND VEHICLE PERFORMANCE II  4 UNITS
(May be repeated 3 times)
Continued study of electrical/electronic and fuel control systems, including engine management systems, emission control systems, emissions testing, drive ability and vehicle performance diagnosis and repair. May not receive credit if Automotive Technology 71 has been completed. Prerequisites: Automotive Technology 71A. 2 1/2 hours lecture, 5 1/2 hours laboratory.

(BIOLOGICAL SCIENCES)

Changes to Page 46

PHYSIOLOGY (PHSI)

1  HUMAN PHYSIOLOGY  5 UNITS
...May be offered in Distance Education delivery format. 3 hours lecture, 6 hours laboratory. Transfer...

BUSINESS (BUS)

Changes to Page 46-49

(The following changes to Degrees and Certificates refer to the printed 2003-2005 Catalog; they supersede those published in the 2004-05 Addendum.)

DEGREE:
AS—ACCOUNTING
AS—BUSINESS
(PENDING STATE APPROVAL)
AA—BUSINESS ADMINISTRATION
AS—RETAIL MANAGEMENT
(PENDING STATE APPROVAL)

CERTIFICATE OF ACHIEVEMENT:
ACCOUNTING TECHNICIAN
MARKETING
RETAIL MANAGEMENT (PENDING STATE APPROVAL)

CERTIFICATE OF COMPLETION:
MANAGEMENT
RETAILING
SMALL BUSINESS MANAGEMENT

ACCOUNTING
ASSOCIATE IN SCIENCE DEGREE

SOPHOMORE YEAR
FALL SPRING
(Course change)
Business 14 (Business Communications)
or Business 15 (Business Correspondence) ................................. 3

BUSINESS
ASSOCIATE IN SCIENCE DEGREE
PENDING STATE APPROVAL
(Replaces these AS Degrees)
BUSINESS (General)
BUSINESS (Emphasis in International Business)
BUSINESS (Emphasis in Marketing)
BUSINESS (Emphasis In Management)

The core curriculum for the Business Associate in Science Degree involves completing the courses below and the general education requirements. Students may enroll in one of the four areas of emphasis: General Business, International Business, Management, or Marketing. Only one Associate in Science Degree in Business may be earned.

FRESHMAN YEAR
FALL SPRING
Business 1A (Principles of Accounting I) or Business 7 (General Accounting) .......... 3-4
Business 10 (Business Law) ................................. 4
Business 12 (Introduction to Business) ......................... 3
Business 14 (Business Communications) ......................... 3
Business 16 (Business Mathematics) ......................... 3
Business 22 (Introduction to Management) ....................... 3

SOPHOMORE YEAR
FALL SPRING
Business 36 (Introduction to Marketing) ................. 3
Business 40 (International Business) ......................... 3

Computer Application Systems 8
(Computer Literacy) or
Computer Application Systems 50
(Introduction to Computer Application Systems) or
Computer Application Systems 54A
(Microsoft Excel I) ............................................ 3

Emphasis (Select from the areas of emphasis below. Only one AS degree in Business may be earned.) ............................................ 9

Total ........................................................................... 30-43

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

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

Emphasis 1—General Business
Select a minimum of 9 units from any other business classes.

Emphasis 2—International Business
Select a minimum of 9 units from the following options:
Business 21 (Human Resource Management) .......... 3 units
Business 26 (Small Business Management) ............. 3 units
Business 41 (Export/Import Operations) ................. 3 units
French 1A (Beginning French) ................................. 5 units
German 1A (Beginning German) ............................... 5 units
Italian 1A (Beginning Italian) ................................. 5 units
Japanese 1A (Beginning Japanese) ......................... 5 units
Spanish 1A (Beginning Spanish) ............................... 5 units
Geography 2 (Cultural Geography) ......................... 3 units
Geography 5 (World Regional Geography) .......... 3 units
Political Science 30 (International Relations) .... 3 units
Business 95/Work Experience 95
(Business/Work Experience) ................................. 1-3 units
Business 96/Work Experience 96
(Business/Work Experience Seminar) ............. 1 unit

Emphasis 3—Management
Business 21 (Human Resource Management) .......... 3 units
Select a minimum of 6 units from the following options:
Business 17 (Business Ethics) ............................... 3 units
Business 26 (Small Business Management) .......... 3 units
Business 28 (Human Relations in the Workplace) ......................... 3 units
Business 95/Work Experience 95
(Business/Work Experience) ................................. 1-3 units
Business 96/Work Experience 96
(Business/Work Experience Seminar) ............. 1 unit
Psychology 1 (General Psychology) ......................... 3 units

Emphasis 4—Marketing
Select a minimum of 6 units from the following options:
Business 15 (Business Correspondence) ................. 3 units
Business 31 (Professional Selling) ......................... 3 units
Business 32 (Retail Store Management) ................. 3 units
Business 34 (Introduction to Advertising) ............. 3 units
Select a minimum of 3 units from the following options:

- Business 26 (Small Business Management) .......... 3 units
- Business 28 (Human Relations in the Workplace) .................................................. 3 units
- Business 41 (Export/Import Operations) .......... 3 units
- Business 95/Work Experience 95 (Business/Work Experience) .................. 1-3 units
- Business 96/Work Experience 96 (Business/Work Experience Seminar) ...... 1 unit
- Computer Application Systems 82 (Designing Web Pages) .................................. 3 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 ADMINISTRATION**

**TRANSFER PROGRAM AND ASSOCIATE IN ARTS DEGREE**

**SOPHOMORE YEAR**

**FALL**

Mathematics 35 (Statistics for Business Majors) or
Mathematics 43 (Introduction to Probability and Statistics) .......................... 4

**SPRING**

Computer Application Systems 50 (Introduction to Computer Application Systems) or
Computer Application Systems 55 (Microsoft Office Integration) .......................... 3

(Add: New Degree)

**RETAIL MANAGEMENT**

**CERTIFICATE OF ACHIEVEMENT**

**PENDING STATE APPROVAL**

**FRESHMAN YEAR**

**FALL**

Business 1A (Principles of Accounting I) or
Business 14 (Business Communications) .......... 3-4

**SPRING**

Business 15 (Business Correspondence) .......................... 3
Business 16 (Business Mathematics) .......................... 3

**SOPHOMORE YEAR**

**FALL**

Business 21 (Human Resource Management) .... 3

**SPRING**

Business 28 (Human Relations in the Workplace) .................................................. 3
Business 36 (Introduction to Marketing) .......... 3
Business 22 (Introduction to Management) .......................... 3
Business 32 (Retail Store Management) .......................... 3

Computer Application Systems 8 (Computer Literacy) or
Computer Science 8 (Computer Literacy) or
Computer Application Systems 50 (Introduction to Computer Application Systems) .......................... 3

**Total** ........................................................................... 30-31

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.

**ACCOUNTING TECHNICIAN**

**CERTIFICATE OF ACHIEVEMENT**

(Revised)

**CORE COURSES**

**FALL**

Business 1A (Principles of Accounting I) .......... 4
Business 14 (Business Communications) or
Business 15 (Business Correspondence) .... 3

**SPRING**

Computer Application Systems 54A (Microsoft Excel® I) ........................................... 3
Business 1B (Principles of Accounting II) .................. 4
Business 3 (Income Tax Accounting) .................. 4
Business 5 (Introduction to Peachtree Accounting) .................................................. 1
Business 6 (Introduction to QuickBooks Accounting) ........................................... 1

**Total** ................................................................................ 20

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.

(See Curriculum Changes 2004-05)

**RETAIL MANAGEMENT**

**CERTIFICATE OF ACHIEVEMENT**

**PENDING STATE APPROVAL**

**MARKETING**

**CERTIFICATE OF ACHIEVEMENT**

(See Curriculum Changes 2004-05)

**MANAGEMENT**

**CERTIFICATE OF COMPLETION**

**PENDING STATE APPROVAL**

**CORE COURSES**

**FALL**

Business 1A (Principles of Accounting I) or
Business 7 (General Accounting) .................. 3-4

**SPRING**

Business 21 (Human Resources Management) .................................................. 3

(Add: New Degree)

**ELECTIVES**

**FALL**

Business 10 (Business Law) 4 units

**SPRING**

Option* ................................................................. 6

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

*Select a minimum of 6 units from the following options:

(Add)

Business 10 (Business Law) 4 units

(See Curriculum Changes 2004-05)
SMALL BUSINESS MANAGEMENT
CERTIFICATE OF COMPLETION

CORE COURSES FALL SPRING
Business 7 (General Accounting) ...................... 3
Business 26 (Small Business Management) ...... 3
Business 10 (Business Law) .......................... 4
Business 5 (Introduction to Peachtree
Accounting) or
Business 6 (Introduction to QuickBooks
Accounting) ............................................. 1
Option* ................................................................................... 6
Total ................................................................................ 17

*Option
Select a minimum of 6 units from the following options:
- Business 12 (Introduction to Business) 3 units
- Business 21 (Human Resource Management) 3 units
- Business 22 (Introduction to Management) 3 units
- Business 31 (Professional Selling) 3 units
- Business 32 (Retail Store Management) 3 units
- Business 34 (Introduction to Advertising) 3 units
- Business 36 (Introduction to Marketing) 3 units
- Business 40 (International Business) 3 units
- Business 41 (Export/Import Operations) 3 units
- Business 95/Work Experience 95 (Business
  Work Experience) 1-3 units
- Business 96/Work Experience 96 (Business Work
  Experience Seminar) 1 unit
- Computer Application Systems 82 (Designing
  Web Pages) 3 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.

CHANGES TO PAGE 50

(Revision)
1A PRINCIPLES OF ACCOUNTING I 4 UNITS
...May be offered in Distance Education Delivery format. 4 hours lecture...

(Revision)
1B PRINCIPLES OF ACCOUNTING II 4 UNITS
...May be offered in Distance Education Delivery format. 4 hours lecture...

CHANGES TO PAGE 52

(Correct description)
30B INTRODUCTION TO QUICKBOOKS ACCOUNTING 1 UNIT
...Transfer: CSU.

(Revise)
36 INTRODUCTION TO MARKETING 3 UNITS
...May be offered in Distance Education delivery format. 3 hours...

CHANGES TO PAGE 53-55

(The following changes to Degrees and Certificates refer to the printed 2003-2005 Catalog; they supercede those published in the 2004-05 Addendum)

DEGREE:
(Replaces AA—Computer Software Applications)
AS—COMPUTER APPLICATION SYSTEMS (SOFTWARE SPECIALIST)

(Delete)
AA—COMPUTER APPLICATION SYSTEMS (COMPUTER PROGRAMMING)

CERTIFICATE OF ACHIEVEMENT:
ADMINISTRATIVE ASSISTANT
BUSINESS GRAPHICS
OFFICE TECHNOLOGY

(Replaces Computer Software Applications)
SOFTWARE SPECIALIST

CERTIFICATE OF COMPLETION:
OFFICE TECHNOLOGY

(Revised: Replaces AA—Computer Software Applications)
COMPUTER APPLICATION SYSTEMS—SOFTWARE SPECIALIST
ASSOCIATE IN SCIENCE DEGREE

FRESHMAN YEAR FALL SPRING
Computer Applications Systems 8
... (Computer Literacy) or
Computer Science 8 (Computer
Literacy) or
Computer Application Systems 50
... (Introduction to Computer
Application Systems) ......................... 3
Computer Application Systems 72A
... (Elementary Computer Keyboarding I) ... 1
Business 14 (Business Communications) or Business 15 (Business Correspondence) .. 3
Computer Application Systems 54A
(Microsoft Excel® I) ....................................................... 3
Computer Application Systems 88A
(Microsoft Word® I) ....................................................... 3
Computer Science 7 (Introduction to Computer Programming Concepts) or
Computer Science 10 (Introduction to Programming Using Visual BASIC) ...................... 3-4

SOPHOMORE YEAR  FALL  SPRING

Computer Application Systems 58
(Introduction to Microsoft Access®) ........ 3
Computer Science 91 (Introduction to Hypertext Markup Language (HTML)) ... 2
Electives* .............................................................. 3
Computer Science 14 (Introduction to Structured Programming in C++) ........................... 4
Business Work Experience 95 or Work Experience 95 (Work Experience) ...................... 1-3
Business Work Experience 96 or Work Experience 96 (Work Experience Seminar) .... 1
Total ........................................................................... 30-33

*Three units may be selected from the following:
  Computer Application Systems 54B (Microsoft Excel® II) 3 units
  Computer Application Systems 55 (Microsoft Office Integration) 3 units
  Computer Application Systems 82 (Designing Web Pages) 3 units
  Computer Application Systems 84 (Designing Business Graphics) 3 units
  Computer Application Systems 88B (Microsoft Word® II) 3 units

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

(Revise)

ADMINISTRATIVE ASSISTANT
ASSOCIATE IN SCIENCE DEGREE

FRESHMAN YEAR  FALL  SPRING

Business 14 (Business Communications) or Business 15 (Business Correspondence) .. 3
Computer Applications Systems 8
(Computer Literacy) or
Computer Science 8 (Computer Literacy) or
Computer Application Systems 50 (Introduction to Computer Application Systems) ............... 3

Computer Application Systems 70
(Computer Keyboarding and Formatting) or
Computer Application Systems 72A (Computer Keyboarding I) and
Computer Application Systems 72B (Computer Keyboarding II) and
Computer Application Systems 72C (Computer Keyboarding III) ...................... 3
Business 7 (General Accounting) or
Business 1A (Principles of Accounting) ............... 3-4
Computer Application Systems 54A ....................................................... 3
Computer Application Systems 88A ....................................................... 3

SOPHOMORE YEAR  FALL  SPRING

Business 22 (Introduction to Management) or
Business 28 (Human Relations in the Workplace) ..................................... 3
Computer Application Systems 58 (Introduction to Microsoft Access®) ........ 3
Electives* .............................................................. 3
Computer Application Systems 55 (Microsoft Office® Integration) ...................... 3
Business Work Experience 95 or Work Experience 95 (Work Experience) .... 1-3
Business Work Experience 96 or Work Experience 96 (Work Experience Seminar) .... 1
Total ........................................................................... 32-35

*Three units may be selected from the following:
  Computer Application Systems 54B (Microsoft Excel® II) 3 units
  Computer Application Systems 82 (Designing Web Pages) 3 units
  Computer Application Systems 84 (Designing Business Graphics) 3 units
  Computer Application Systems 88B (Microsoft Word® II) 3 units

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

(Revise)

ADMINISTRATIVE ASSISTANT
CERTIFICATE OF ACHIEVEMENT

CORE COURSES  FALL  SPRING

Computer Applications Systems 8 (Computer Literacy) or
Computer Science 8 (Computer Literacy) or
Computer Application Systems 50 (Introduction to Computer Application Systems) ............... 3
Computer Application Systems 70  
(Computer Keyboarding and Formatting) or  
Computer Application Systems 72A  
(Computer Keyboarding I) and  
Computer Application Systems 72B  
(Computer Keyboarding II) and  
Computer Application Systems 72C  
(Computer Keyboarding III) 3  
Computer Application Systems 88A  
(Microsoft Word® I) 3  
Computer Application Systems 54A  
(Microsoft Excel® I) 3  
Computer Application Systems 58  
(Introduction to Microsoft Access®) 3  
Business 14 (Business Communications) or  
Business 15 (Business Correspondence) 3  
electives* 3  
Total 21  

*Three units may be selected from the following:  
Computer Application Systems 54B (Microsoft Excel® II) 3 units  
Computer Application Systems 55 (Microsoft Office Integration) 3 units  
Computer Application Systems 82 (Designing Web Pages) 3 units  
Computer Application Systems 84 (Designing Business Graphics) 3 units  
Computer Application Systems 88B (Microsoft Word® II) 3 units  

(See Curriculum Changes 2004-05)

OFFICE TECHNOLOGY
CERTIFICATE OF ACHIEVEMENT

CORE COURSES FALL SPRING  
Business 14 (Business Communications) or  
Business 15 (Business Correspondence) 3  
Computer Application Systems 8  
(Computer Literacy) or  
Computer Science 8 (Computer Literacy) or  
Computer Application Systems 50  
(Introduction to Computer Application Systems) 3  
Computer Application Systems 88A  
(Microsoft Word® I) 3  
Computer Science 7 (Introduction to Computer Programming Concepts) or  
Computer Science 10 (Introduction to Programming Using Visual BASIC) 3-4  
Computer Science 91 (Introduction to Hypertext Markup Language (HTML)) 2  
electives* 3  
Total 23  

*Three units may be selected from the following:  
Computer Application Systems 54B (Microsoft Excel® II) 3 units  
Computer Application Systems 55 (Microsoft Office Integration) 3 units  
Computer Application Systems 82 (Designing Web Pages) 3 units  
Computer Application Systems 84 (Designing Business Graphics) 3 units  
Computer Application Systems 88B (Microsoft Word® II) 3 units  

PHOTOGRAPHY
CERTIFICATE OF ACHIEVEMENT

CORE COURSES FALL SPRING  
Photography 31A (Photoshop I) or  
Architecture 31A (Photoshop I) or  
Art 31A (Photoshop I) or  
Interior Design 31A (Photoshop I) 1 1/2  
Photography 32A (Illustrator I) or  
Architecture 32A (Illustrator I) or  
Art 32A (Illustrator I) or  
Interior Design 32A (Illustrator I) 1 1/2  
Photography 32B (Illustrator II) or  
Architecture 32B (Illustrator II) or  
Art 32B (Illustrator II) or  
Interior Design 32B (Illustrator II) 1 1/2  
Total 21  

(See Curriculum Changes 2004-05)
54A MICROSOFT EXCEL® I 3 UNITS
Introduction to spreadsheet applications using Excel 2000 on the PC...May be offered in Distance Education delivery format...

(Title, prerequisite, and unit change)
55 MICROSOFT OFFICE® INTEGRATION 3 UNITS
Hands-on experience integrating data and graphics with Word, Excel, and PowerPoint. Emphasis on developing and creating a variety of business documents including databases, brochures, and newsletters. Prerequisites: Computer Application Systems 54A and Computer Application Systems 88A. (Combined credit for Computer Application systems 55, 61, and 88A may not exceed 12 units.) 2 hours lecture, 2 hours laboratory. Transfer: CSU.

84 DESIGNING BUSINESS GRAPHICS 3 UNITS
Design professional and customized business graphics, logos, business cards, letterheads, envelopes, mailing labels and brochures quickly and easily with Microsoft Publisher®. Use these publications to generate quality graphics for computer printers, commercial printing or web sites. Strongly recommended: Computer Application Systems 8 or Computer Science 8 or Computer Application Systems 50. 2 hours lecture, 2 hours laboratory.

CHANGES TO PAGE 56
(The following changes to Degrees and Certificates refer to the printed 2003-2005 Catalog; they supersede those published in the 2004-05 Addendum.)

DEGREE:
(Delete)
AA— LINUX ADMINISTRATION AND WEBSITE MANAGEMENT
AS— LINUX ADMINISTRATION AND WEBSITE MANAGEMENT
AA— LINUX SYSTEMS PROGRAMMING
AS— LINUX SYSTEMS PROGRAMMING

CERTIFICATE OF ACHIEVEMENT:
(Delete)
LINUX SYSTEMS ADMINISTRATION SPECIALIST
LINUX SYSTEMS PROGRAMMING SPECIALIST
ORACLE/SQL/SQL SERVER SPECIALIST
WEB SITE DEVELOPMENT SPECIALIST

CERTIFICATE OF COMPLETION:
MICROSOFT ACCESS/SQL DATABASE SPECIALIST

CHANGES TO PAGE 62
(Advisory change; add DE delivery format)
14 INTRODUCTION TO STRUCTURED PROGRAMMING IN C++ 4 UNITS
...Strongly recommended: Computer Science 7 (completed with a grade of "C" or higher). May be offered in Distance Education delivery format...

DENTAL HYGIENE (DHYG)

CHANGES TO PAGE 66
DEGREE:
AA— DENTAL HYGIENE

SPECIAL APPLICATION REQUIRED

(Delete)
...(4) Completion of the Allied Health Professions Admission Test (AHPAT) by February 1 of the year of application.

(Add)
Basic Nutrition is required prior to completion of the Dental Hygiene Program. Completion of Nutrition 1 is strongly recommended prior to entrance into the Dental Hygiene Program.

DENTAL HYGIENE
ASSOCIATE IN ARTS DEGREE

SOPHOMORE YEAR FALL SPRING
(Unit change)
Dental Hygiene 82B (Clinical Experience Seminar II) ................................................................. 2

Total ................................................................................................................ 56

CHANGES TO PAGE 68
(Revise hours/units)
82B CLINICAL EXPERIENCE SEMINAR II 2 UNITS
...2 hours. Transfer: CSU.

DIGITAL MEDIA (DIGM)

CHANGES TO PAGE 69
(Add)
36A FINAL CUT EXPRESS I 1 1/2 UNITS
Introduction to video editing using Final Cut Express software. Capturing digital video; combining video clips by means of cuts and transitions; adding titles and audio; outputting the finished product to disk. 1 hour lecture, 2 hours laboratory. Transfer: CSU.
(Add)
36B  FINAL CUT EXPRESS II  1 1/2 UNITS
Continuation of the content and skills introduced in Digital Media 36A (Final Cut Express I), with emphasis on creative imagery through use of video and audio filters, motion and speed effects, and compositing. Prerequisite: Digital Media 36A (completed with a grade of "C" or higher). 1 hour lecture, 2 hours laboratory. Transfer: CSU.

### Early Childhood Development (ECD)

#### Changes to Page 71 & 72

(Revise)
65  ADMINISTRATION  3 UNITS
An overview of administrative principles and practices of Early Care and Education facilities; program planning, organizational structures, financial management, personnel policies, records, nutrition and food purchasing; relationships with families, community, and regulatory agencies; requirements of State and Federal programs; legal and ethical aspects. Prerequisite: Early Childhood Development 62 and 63 (both completed with a grade "C" or higher). 3 hours. Transfer: CSU.

(Revise)
68  PROGRAM SUPERVISION  3 UNITS
Management of Early Care and Education programs which includes: strategic planning, group dynamics, supervision of staff and volunteers, development of motivation and morale, leadership skills, functions of personnel, interviewing skills, interpersonal and group conflicts, staff evaluations, and working effectively with families and advisory boards. Designed to provide knowledge of methods and principles of working with adults in a supervisory capacity in Early Care and Education settings. Prerequisite: Early Childhood Development 62 and 63 (both completed with a grade "C" or higher). 3 hours. Transfer: CSU.

(Revise)
83  ADULT SUPERVISION  2 UNITS
Methods and principles of mentoring and supervising adults in Early Care and Education settings. Emphasis on the role of experienced classroom teachers who function as mentors to new teachers, while simultaneously addressing the needs of children, families and other staff. Prerequisite: Early Childhood Development 62 and 63 (both completed with a grade "C" or higher). 2 hours. Transfer: CSU.

### Electronics and Computer Technology (ELEC)

#### Changes to Page 73–75

**DegreE:**
**AS—Electronics and Computer Technology**

**Certificate of Achievement:**
**Electronics and Computer Technology**

(Delete)
**Electronics Audio/Video Technology**

**Certificate of Completion:**
**Electronics Assembly**

(Revise)
68  ELECTRONIC TEST EQUIPMENT  1 UNIT
...Prerequisite: Electronics and Computer Technology 60. 1 hour.

(New)
74A  CISCO NETWORKING ACADEMY
CCNA 1 AND 2  5 UNITS
Fundamental principles and practices of computer network design, implementation, and operation, with emphasis on the TCP/IP protocol and its use in internetworking. The OSI model provides the principles and practices of routing in a TCP/IP network, including routing protocols, IP addressing, and router configuration and commands. The course includes the Cisco Networking Academy Semesters 1 and 2 curriculum. 4 hours lecture, 3 hours laboratory.

(New)
74B  CISCO NETWORKING ACADEMY
CCNA 3 AND 4  5 UNITS
Intermediate principles and practices of switching, routing, and network design in TCP/IP networks, including NAT, PAT, VLAN switching, EIGRP, OSPF and RIPv2 routing, router access control lists, and principles of local network design and management. Principles and practices of wide-area network design and implementation, including PPP, ISDN, frame relay, and principles of wide-area network management. The course includes the Cisco Networking Academy Semesters 2 and 3 curriculum. Prerequisite: Electronics and Computer Technology 74A (completed with a grade "C" or higher). 4 hours lecture, 3 hours laboratory.
This program is designed to satisfy core requirements for many engineering transfer majors. However, students should consult a counselor, and especially the catalog of the intended transfer institution for specific transfer requirements in the selected major. For example, many transfer institutions require Engineering Graphics for mechanical, civil, and industrial engineering majors.

General Education courses should be selected to meet the requirements of the intended transfer institution. Some transfer institutions require more general education units than that required by the A.S. degree.

### Changes to Page 76-77

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<td>ENGINEERING GRAPHICS</td>
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<td>DESCRIPTIVE GEOMETRY</td>
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<td>ENGINEERING DESIGN GRAPHICS</td>
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### Freshman Year

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<td>COMPUTATIONAL METHODS FOR ENGINEERS AND SCIENTISTS</td>
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### Sophomore Year

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### Total Minimum Units Required

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* Students planning to transfer as Electrical or Computer Engineering majors may substitute a Computer Science computer-programming course for either, but not both, Engineering 36 or Engineering 45.

The above listing is a suggested sequence only. Some courses have prerequisites. Students may take courses in any sequence except where a prerequisite applies.
Self-paced, individualized instruction in reading and writing effectiveness. 2-6 hours laboratory.

### ENGLISH AS A SECOND LANGUAGE (ESL)

(Revise hours and description)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>109 VOCABULARY SKILLS</td>
<td>1</td>
<td>Build language proficiency by learning new vocabulary and developing vocabulary-building skills. 1 hour lecture, 1 hour laboratory.</td>
</tr>
</tbody>
</table>

(Revise title, hours, and description)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>111A PRONUNCIATION</td>
<td>2</td>
<td>Oral English with emphasis on strategies for clear pronunciation. 2 hours lecture, 1 hour laboratory.</td>
</tr>
</tbody>
</table>

(Add)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>127 ESL PRONUNCIATION LAB</td>
<td>1/2</td>
<td>Individual practice producing and responding to oral English with emphasis on clear pronunciation. 1 1/2 hours laboratory.</td>
</tr>
</tbody>
</table>

(Add)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>128 FACULTY-STUDENT TUTORIAL—ESL</td>
<td>1/2-2</td>
<td>Self-paced, individualized instruction in academic English oral and written communication skills for students who speak English as a second language. Focus on writing, reading, listening, and speaking skills needed in college courses. 1 1/2-6 hours laboratory.</td>
</tr>
</tbody>
</table>

### ETHNIC STUDIES

#### TRANSFER PROGRAM AND ASSOCIATE IN ARTS DEGREE

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTORY 20 THE AFRICAN-AMERICAN EXPERIENCE IN U.S. HISTORY THROUGH RECONSTRUCTION</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

(Revise Title)

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTORY 20 THE AFRICAN-AMERICAN EXPERIENCE IN U.S. HISTORY THROUGH RECONSTRUCTION</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**TITLE CHANGES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTORY 21 THE AFRICAN-AMERICAN EXPERIENCE IN U.S. HISTORY SINCE RECONSTRUCTION</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTORY 22 MEXICAN-AMERICAN HISTORY IN THE DEVELOPMENT OF U.S. HISTORY FROM PRE-COLUMBIAN PERIOD TO THE PRESENT</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

### English (ENGL)

#### Changes to Page 79

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRITICAL THINKING AND WRITING ACROSS DISCIPLINES</td>
<td>3</td>
<td>Develops critical thinking, reading, and writing skills as they apply to the analysis of primary and secondary nonfiction books, articles, and essays from a range of academic and cultural contexts. Theme based. Emphasis on the techniques and principles of effective written argument in research-based writing across disciplines. Prerequisite: English 1A (completed with a grade of &quot;C&quot; or higher). May be offered in Distance Education delivery format. 3 hours. Transfer: CSU, UC; CSU/GE: A3; IGETC: Area 1 group B; AA/AS.</td>
</tr>
</tbody>
</table>

### Changes to Page 82

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FACULTY-STUDENT TUTORIAL: WRITING AND READING ACROSS THE CURRICULUM</td>
<td>1/2-3</td>
<td>(English 115 and General Studies 115 may be repeated for a combined total of 3 times.)</td>
</tr>
</tbody>
</table>

CHABOT COLLEGE CATALOG ADDENDUM 2004-2006
Chabot College Catalog Addendum 2004-2006

General Studies (GNST)

Changes to Page 89

(Revise)
115  Faculty-Student Tutorial: Writing and Reading Across the Curriculum 1/2-3 units

(General Studies 115 and English 115 may be repeated for a combined total of 3 times.)

Self-paced, individualized instruction in reading and writing effectiveness. 2-6 hours laboratory.

(Add)
116  Gateway to Success Program: Faculty-Student Tutorial 1/2-3 units

(May be repeated 3 times)

Self-paced instruction in effective reading, writing, and problem strategies in English, mathematics, and science. Tailored to individual student's needs and goals. Corequisite: enrollment in any Gateway to Success English, Mathematics, or Physics course. 2-6 hours.

Health (HLTH)

Changes to Page 92

(Revise)
81  Emergency Medical Technician—Basic 6/2 units

...Alameda County Emergency Medical Services Agency. This course enrollment also requires: Evidence of immunization for measles, mumps, and rubella. Evidence of Hepatitis B immunization series completed or in progress. A current (within one year of course completion) negative TB test is also required. Current healthcare CPR certification is required. Corequisite: Health 83. Prerequisite: Health 61 (completed with a grade of "C" or higher)...

(Add)
500  Emergency Medical Training 0 units

Supplementary emergency medical training through supervised clinical experience and additional skills laboratory time. Students participate in ambulance and/or emergency department care and treatment of the emergently ill or injured. Corequisite: Health 81, Health 83, or equivalent. 0-10 hours laboratory.

History (HIST)

Changes to Page 96

(Revise)
5  Critical Thinking in History 3 units

Introduction to critical thinking, reading, writing skills and practical logic and reasoning through study of historical method. Emphasis on the techniques and principles of effective written and oral argument in case studies and historical problems. Includes the perspective of Middle Eastern and Arab Americans, European Americans, Asian Americans, African Americans and Mexican Americans. 3 hours. Transfer: CSU, UC; CSU/GE: A3; AA/AS.

(Title change and revised description)
20  The African-American Experience in U.S. History Through Reconstruction 3 units

Survey of major themes and issues of the history of the United States with a particular focus upon African Americans and the gendered racial, ethnic, and socioeconomic diversity within the nation. Contacts between European peoples, African peoples and the indigenous peoples of the New World to the establishment of the British colonies in North America, the formation of the nation, its expansion westward and the social, political and economic factors which lead to division. Examination of the role of race and slavery as evolving concepts and practices affecting the nation's development. Analysis of the role of local, state and federal governments and the constitution as institutions of both consistency and change. 3 hours. Transfer: CSU, UC; CSU/GE: D3, D6, AI, Group A; IGETC: Area 4, AI, Group B; AA/AS.

(Title change and revised description)
21  The African-American Experience in U.S. History Since Reconstruction 3 units

Survey of major themes and issues in of the history of the United States, focusing upon African Americans and the gendered racial, ethnic, and socioeconomic diversity within the nation. Emergence of the country from the Civil War and Reconstruction, tracing such themes as industrialization, immigration and migration, Progressivism, the nation at economic crisis and at war, the rise of social movements and the social and political backlash against them, and the evolving diversity of the nation. Analysis of the role of the local, state, and federal governments and the Constitution as institutions of both consistency and change. 3 hours. Transfer: CSU, UC; CSU/GE: D3, D6, AI, Group A; IGETC: Area 4, AI, Group B; AA/AS.

Interior Design (INTD)

Changes to Page 100

(Revised)
62  Kitchen and Bathroom Design 3 units

Survey of the field of kitchen and bathroom designs. Includes resources, materials, trends, costs and needs, both functional and aesthetic. 2 hours lecture, 3 hours laboratory.
MATHEMATICS (MATH)

Changes to Pages 106-109

(Revised Degree)

MATHEMATICS
TRANSFER PROGRAM AND
ASSOCIATE IN ARTS OR
ASSOCIATE IN SCIENCE DEGREE*
*(Remove Pending State Approval)

FRESHMAN YEAR

FALL SPRING

(Revise options)

Choose at least one other course from the following ......................... 3-5

Computer Science 14 (Introduction to Structured Programming In C++)
Computer Science 15 (Object-Oriented Programming Methods in C++)
Computer Science 20 (Introduction to Data Structures in C++)

Computer Science 21 (Computer Organization And Assembly Language Programming)
Engineering 25 (Computational Methods for Engineers And Scientists)
Engineering 36 (Engineering Mechanics—Statics)
Engineering 43 (Engineering Circuit Analysis)
Engineering 45 (Materials of Engineering)
Math 25 (Computational Methods for Engineers And Scientists)
Physics 4A (General Physics I)
Physics 25 (Computational Methods for Engineers And Scientists)

(Revise)

MATHEMATICS (MATH)

(Add)

25 COMPUTATIONAL METHODS FOR ENGINEERS AND SCIENTISTS 3 UNITS

(See also Engineering 25, Physics 25)

Methodology and techniques for solving engineering/science problems using numerical-analysis computer-application programs MATLAB and EXCEL. Technical computing and visualization using MATLAB software. Examples and applications from applied-mathematics, physical-mechanics, electrical circuits, biology, thermal systems, fluid systems, and other branches of science and engineering. Prerequisite: Mathematics 1. Strongly recommended: Computer Science 8. 2 hours lecture, 3 hours laboratory. Transfer: CSU, UC.

(Revise)

31 COLLEGE ALGEBRA 3 UNITS

Preparation for Calculus for Business and Social Science students. Functions and graphs: polynomials, rational functions, exponential and logarithmic functions, circles, parabolas, binomial theorem, sequences and series. Solving rational, radical, quadratic in form, exponential and logarithmic equations. Prerequisite: Mathematics 54 or 54L or 55 or Mathematics 55B (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics Assessment process. 3 hours. Transfer: CSU, UC; CSU/GE: B4; ITETC: Area 2; AA/AS.

(Revise units and description)

32 CALCULUS FOR BUSINESS AND SOCIAL SCIENCES 5 UNITS

Functions and their graphs; differential and integral calculus of polynomial, rational, exponential and logarithmic functions; partial derivatives. Applications in business, economics and the life and social sciences. Prerequisite: Mathematics 55 or 55B (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics Assessment process. 5 hours. 0-1 hours laboratory. Transfer: CSU, UC; CSU/GE: B4; ITETC: Area 2; AA/AS; (CAN MATH 34).

(Revise prerequisite)

33 FINITE MATHEMATICS 4 UNITS

...introduction to probability. Applications in business, economics and the social sciences...

(Revise prerequisite)

40 CONCEPTS OF MATHEMATICS 3 UNITS

...Prerequisite: Mathematics 54, 54L, 55 or 55B...

(Revise prerequisite)

43 INTRODUCTION TO PROBABILITY AND STATISTICS 4 UNITS

...Prerequisite: Mathematics 54, 54L, 55 or 55B...

(Add)

54 APPLIED INTERMEDIATE ALGEBRA 5 UNITS

Functions in the context of real data; rates of change of linear functions; linear systems; laws of rational exponents; mathematical models (including graphs) using exponential, logarithmic, power, and linear, quadratic and other polynomial functions; solution of exponential and logarithmic equations. Prerequisites: Mathematics 65 or Mathematics 65B or Mathematics 65L (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics Assessment process. May not receive credit if Mathematics 54L has been completed. 5 hours lecture, 0-1 hour laboratory. Transfer: AA/AS.

(Add)

54L APPLIED INTERMEDIATE ALGEBRA WITH LABORATORY 5 1/2 UNITS

Functions in the context of real data; rates of change of linear functions; linear systems; laws of rational exponents; mathematical models (including graphs) using exponential, logarithmic, power, and linear, quadratic and other polynomial functions; solution of exponential and logarithmic equations. Includes laboratory and study group time to reinforce and enhance the learning of applied intermediate algebra skills. Prerequisites: Mathematics 65 or Mathematics 65B or Mathematics 65L (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics Assessment process. May not receive credit if Mathematics 54 has been completed. 5 hours lecture, 1 1/2 hours laboratory. Transfer: AA/AS.
Medical Assisting (MEDA)

Changes to Page 109-110

(Revise)

MEDICAL ASSISTING
ASSOCIATE IN ARTS DEGREE

(Replace introductory paragraph as follows:)
Students completing in sequence the 31 units for the accredited Medical Assisting Certificate program are eligible to sit the American Association of Medical Assistants (AAMA) Certified Medical Assistant (CMA) exam.

Sophomore Year

FALL SPRING

Health 70A* (Community Cardiopulmonary Resuscitation) ................................................................. 1/2
Health 70B* (Professional Cardiopulmonary Resuscitation) ................................................................. 1/2

(Add footnote)
*An American Heart Association Health Care Provider Card is required for MEDA 73A.

(Delete)
All courses must be successfully taken in sequence to be eligible for graduation and be eligible to sit for the American Association of Medical Assistants Certified Medical Assistant (CMA) exam.

Nursing (NURS)

Changes to Page 113-116

(Revise)

MEDICAL ASSISTING
CERTIFICATE OF ACHIEVEMENT

(Revise first paragraph)
...(CMA—Certified Medical Assistant Exam).

(Revise third paragraph)
...English 102 is highly recommended.

FALL SPRING

Health 70A* (Community Cardiopulmonary Resuscitation) ................................................................. 1/2
Health 70B* (Professional Cardiopulmonary Resuscitation) ................................................................. 1/2

(Add footnote)
*An American Heart Association Health Care Provider Card is required for MEDA 73A.

MEDICAL ASSISTING (MEDA)

(Revise prerequisite)
70B CLINICAL SKILLS FOR THE MEDICAL ASSISTANT II 3 UNITS
...prerequisite: Health 51A (may be taken concurrently), Medical Assisting 70A and 75 (completed with a grade of “C” or higher).

(Add)
500 SUPPLEMENTARY INSTRUCTION IN MEDICAL ASSISTING 0 UNITS
Practice and competency check for Medical Assisting clinical skills. Corequisite: Medical Assisting 70A, 70B, or 75. Variable hours laboratory.

NURSING ASSOCIATE IN ARTS DEGREE

FRESHMAN YEAR

FALL SPRING

Nursing 55 (Fundamentals of Nursing Practice) ................................................................. 8 1/2

SOPHOMORE YEAR

FALL SPRING

Nursing 60A (Adult Health I: Biopsychosocial Perspectives in the care of the Adult Client in the Hospital and the Community) ............ 8 1/2
(Semester changes from Fall to Spring)
Nursing 60B (Adult Health II) ........................................ 6
Nursing 60C (Adult Health III) .................................... 3 1/2
Nursing 66 (Advanced Clinical Topics) ............................. 1/2
Nursing 73* (Intravenous Therapy) ................................. 1
Sociology ** .............................................................. 3

SPECIAL APPLICATION REQUIRED, including course prerequisites. See Counseling or Director of Nursing for specific deadlines and details.

Advanced standing status may be granted to students who have previously completed any portion of the defined nursing curriculum or its equivalent as determined by the Counselor/Coordinator for Applied Health or the Nursing Program Coordinator.

NURSING (NURS)

(Add)
50 FUNDAMENTALS OF NURSING PRACTICE: REVIEW 5 UNITS
Introduction to fundamental concepts and practices in nursing care across the life span with emphasis on later-life issues. Application of the nursing process to the care of adult clients with the following chronic disorders: hypertension, cancer, diabetes mellitus, coronary artery disease, and cerebrovascular accidents.

Beginning nursing skills include: principles of medical asepsis, body mechanics, standard precautions, hygienic and nutritional care, and administration of medications. Theoretical content provides information on the care of clients with diverse cultural backgrounds and spiritual needs as well as principles of therapeutic communication and mental health. Prerequisite: Formal referral by the California Board of Registered Nursing for the purpose of meeting requirements for eligibility to take the licensing examination for registered nursing (NCLEX-RN) or possession of a valid California LVN license, or inactive California registered nursing license, or transfer from another nursing program who has completed the equivalent of Nursing 55 with a "C" or higher. May not receive credit if Nursing 55 has been completed with a "C" or higher. 4 hours lecture, 2 hours laboratory. Transfer: CSU.

(Add)
51 NURSING OF THE CHILDREARING FAMILY (OBSTETRICAL NURSING) 4 UNITS
Emphasis placed on the use of the nursing process in promoting adaptive processes necessary for coping with the health issues of the childbearing family: theory and clinical highlight the coping mechanisms for childbearing families. Focus is on cultural diversity and growth and development as they affect the physiological and psychological adaptation of families experiencing common health issues and problems of infants, children and adolescents. Theory and clinical practice includes integration of assessment skills, growth and development, family abuse issues, nutrition, pharmacological concepts, ethical issues, and teaching strategies unique to childbearing families. Clinical focuses on care of clients in community and acute care settings. Prerequisite: Formal referral by the California Board of Registered Nursing for the purpose of meeting requirements for eligibility to take the licensing examination for registered nursing (NCLEX-RN). May not receive credit if Nursing 51 or 59 has been completed. 2 hours lecture, 6 3/4 hours clinical. Transfer: CSU.

(Add)
52 NURSING OF THE CHILDREARING FAMILY (PEDIATRICS NURSING) 4 UNITS
Emphasis placed on the use of the nursing process in promoting adaptive processes necessary for coping with the health issues of the childbearing family: theory and clinical highlight the coping mechanisms for childbearing families. Focus is on cultural diversity and growth and development as they affect the physiological and psychological adaptation of families experiencing pregnancy, labor and birth, postpartum, and the newborn infant. Theory and clinical practice includes integration of assessment skills, growth and development, violence against women, nutrition, pharmacological concepts, ethical issues, and teaching strategies unique to childbearing families. Clinical focuses on care of clients in community and acute care settings. Prerequisite: Formal referral by the California Board of Registered Nursing for the purpose of meeting requirements for eligibility to take the licensing examination for registered nursing (NCLEX-RN). May not receive credit if Nursing 52 or 59 has been completed. 2 hours lecture, 6 3/4 hours clinical. Transfer: CSU.

(Add)
53 PSYCHIATRIC NURSING 4 UNITS
Emphasis is on the application of the nursing process in the care of adults experiencing selected conditions requiring treatment in psychiatric care settings. Theory and clinical practice highlight the role of the nurse as a therapeutic agent (in both individual and group settings) in facilitating the client's mind/body adaptation and return to as healthy a state as is possible. Effects on cultural diversity, growth and development, and the importance of support systems in assisting the patient's response to illness in acute and community care agencies incorporated into health biopsychosocial assessment skills, nutrition, pharmacological and crisis intervention concepts, legal-ethical issues, and anger management (directed inward or towards the environment) into the care of these patients. Prerequisite: Nursing 70 (completed with a grade of "C" or higher) or formal referral by the California Board of Registered Nursing for the purpose of meeting requirements for eligibility to take the licensing examination for registered nursing (NCLEX-RN). May not receive credit if Nursing 53 has been completed. 2 hours lecture, 6 3/4 hours clinical. Transfer: CSU.

(Add)
54 CLINICAL TOPICS 1/2 UNIT
Study of selected clinical topics and associated nursing process related to nursing practice. Prerequisite: Nursing 59 or 60A, or the equivalent (completed with a grade of "C" or higher), or possession of a valid California LVN or RN license. 1 hour. Total weeks: 9. Transfer: CSU.
55 FUNDAMENTALS OF NURSING PRACTICE 8 1/2 UNITS
...Theory may be offered in Distance Education delivery format. 4 hours lecture, 13 1/2 hours clinical practice. Transfer: CSU.

60A ADULT HEALTH I-BIOPHYSICAL PERSPECTIVES IN THE CARE OF THE ADULT CLIENT IN THE HOSPITAL AND THE COMMUNITY 8 1/2 UNITS
...Theory may be offered in Distance Education delivery format. 4 hours lecture, 13 hours clinical.

69 GERONTOLOGICAL NURSING 1 UNIT
Nursing care of the aging client. Physical and psychosocial changes which occur with the aging process. Focus on successful adaptation to aging with emphasis on maintaining or regaining optimal health. Strategies for caring for the client who is coping with altered life styles as a result of problems associated with aging. Theories of aging and cultural influences on the aging process. Corequisite: Nursing 55 and 61 or Nursing 70 or possession of valid California LVN license. May be offered in Distance Education delivery format. 1 hour. Transfer: CSU.

72 WORK-STUDY CLINICAL PRACTICUM 2-6 UNITS
Application of theory and nursing skills in the health care setting, under the supervision of a licensed registered nurse and nursing faculty member while being employed by a cooperating hospital. The student will perform nursing skills mastered in previous nursing program courses, under the supervision of the staff registered nurse mentor/facilitator. Additional clinical practice in communicating with the client, family and health care team; developing and implementing nursing care plans. Course will be conducted in a cooperative work environment in which the student, the registered nurse mentor/preceptor and the nursing faculty member collaborate to enhance the student's experience, while promoting quality client care. Prerequisite: Nursing 55 (completed with a grade of "C" or higher); satisfactory completion of or concurrent enrollment in Nursing 59 or 60A. 1/2 to 6 hours laboratory. Transfer: CSU.

53A BEGINNING DIGITAL CAMERA USE 1 1/2 UNITS
Camera handling techniques, basic exposure principles, camera accessories, photographic composition. 1 1/2 hours lecture. Transfer: CSU; AA/AS.

53B DIGITAL DARKROOM 1 1/2 UNITS
Introduction to darkroom concepts and techniques common to both traditional and digital photography. Digital darkroom components such as CPUs, monitors, scanners, and printers. Digital darkroom techniques including calibration, and output. Survey of photography's multiple genres and its changing role in society and culture. Strongly recommended: Photo 53A. 1 hour lecture, 2 hours laboratory. Transfer: CSU.

PHYSICAL EDUCATION (PHED)

COACHING CERTIFICATE OF ACHIEVEMENT
FALL SPRING

Physical Education 8 (Sport in Society) or
Physical Education 15 (Peak Performance through Mental Training) .............................................. 3

(Revise Option)
Physical Education 61 (Principles of Coaching Interscholastic Sports: Beyond the Basics) or Physical Education 28 (Components of Physical Fitness-the Human Body) or Physical Education 60 (Sports Management) ......................................................................................................... 3

(Add)
Physical Education 23 (Sports Officiating) or
Physical Education 16 (College Success for Athletes) ........................................................................ 1-2

Total ............................................................................... 21 1/2-23
(Revise) 4B GENERAL PHYSICS II 5 UNITS
Mechanical waves, electric fields, electric currents, magnetic fields, induced currents, and alternating circuits. Prerequisite: Physics 4A and Mathematics 2...

(Revise) 4C GENERAL PHYSICS III 5 UNITS
Electromagnetic waves, electromagnetic spectrum including reflection, refraction, diffraction, interference, polarization, fluids, sound waves and thermodynamics. Prerequisite: Physics 4B and Mathematics 3...

(Add) 5 MODERN PHYSICS 3 UNITS
Special relativity and modern physics, including photons, quantum mechanics, atoms, solids, nuclear physics, particle physics and cosmology. Prerequisite: Physics 4B (completed with grade of "C" or higher). 3 hours. Transfer:

(Add) 25 COMPUTATIONAL METHODS FOR ENGINEERS AND SCIENTISTS 3 UNITS
(See also Engineering 25, Mathematics 25)
Methodology and techniques for solving engineering/science problems using numerical-analysis computer-application programs MATLAB and EXCEL. Technical computing and visualization using MATLAB software. Examples and applications from applied-mathematics, physical-mechanics, electrical circuits, biology, thermal systems, fluid systems, and other branches of science and engineering. Prerequisite: Mathematics 1. Strongly recommended: Computer Science 8. 2 hours lecture, 3 hours laboratory. Transfer: CSU, UC.

(Rubric Change from THEA to THTR)

PHYSICS (PHYS)

CHANGES TO PAGES 124 & 125

PHYSICS
TRANSFER PROGRAM AND ASSOCIATE IN SCIENCE DEGREE

(Revise semesters)
FRESHMAN YEAR FALL SPRING
Mathematics 1 (Calculus I) .......................... 5
Mathematics 2 (Calculus II) .......................... 5
Physics 4A (General Physics I) ...................... 5

SOPHOMORE YEAR FALL SPRING
(Add)
Physics 5 (Modern Physics) .......................... 3

(Revise)
TOTAL .................................................. 36

(Revise) 4A GENERAL PHYSICS I 5 UNITS
Introduction to the principles of Newtonian mechanics using calculus as needed. Vectors, kinematics, dynamics, energy, momentum, rotation, oscillations and gravitation. Prerequisite: Mathematics 1...

THEATER ARTS (THTR)

CHANGES TO PAGES 136 & 137

(Revise course number, title, description)
1 INTRODUCTION TO ACTING 3 UNITS
Introduction to the techniques and theories of acting, explored through improvisation, exercises and scene study. Development of the physical and psychological resources for acting including relaxation, concentration, creativity, believability, and commitment. (Formerly THEA 1A) 3 hours. Transfer: CSU, UC; CSU/GE: C1; AA/AS; (CAN DRAM 8).

(Revise course number, title, description)
2 THEORY AND PRACTICE OF ACTING 3 UNITS
Exploration of the theory and practice of acting, focusing on more complex characterizations and character analyses. Theatrical styles and period acting with emphasis on monologues and scenes. Voiceover concepts. (Formerly THEA 1B) 3 hours.

(Revise course title, description)
10 THEATER HISTORY AND APPRECIATION 3 UNITS
Basic components of the Theater, including its history and
development over time and in various cultural contexts. Theatri-
cal texts and performance techniques from the Greeks to con-
temporary American artists, with particular emphasis on
multi-cultural theater of the 20th Century. Works from at least
three of the following categories will be considered: African-
American, Asian-American, Latino-American, Pacific Islander-
American, Native-American, Middle-Eastern American theater
artists. 3 hours. Transfer: CSU, UC; CSU/GE: C1; IGETC: Area
3; AA/AS.

(Revise course title, description)
16 DRAMATIC WRITING I 3 UNITS
(May be repeated 3 times)
Introduction to the basic principles of dramatic writing, includ-
ing writing for theater, film, television, and for electronic media.
Discussion and development of original material, resulting in
the completion of a working script. 3 hours. Transfer: CSU;
CSU/GE: C2.

(Revise course title, description, hours/units)
30 EMERGING WORK 3 UNITS
(May be repeated 3 times)
Participation in experimental workshop plays, original student
scripts, and other projects, possibly leading to scheduled perfor-
mances. 9 hours laboratory. Transfer: CSU, UC.

(Revise description, hours/units)
47 COLLEGE THEATER ACTING 3 UNITS
(May be repeated 3 times)
Participation in main season production or project. Enrollment
is for duration of the production. 6 hours laboratory. Transfer:
CSU, UC; AA/AS.

WELDING TECHNOLOGY (WELD)

DEGREE:
AS—WELDING TECHNOLOGY

CERTIFICATE OF COMPLETION:
INSPECTION AND PIPE WELDING

WELDING

(Revise)

WELDING
ASSOCIATE IN SCIENCE DEGREE

FRESHMAN YEAR FALL SPRING
Industrial Technology 74* (Measurements
and Calculations) ...................... 3
Welding Technology 63 (Welding Layout
and Fitting) .............................. 2
Welding Technology 64A, (Beginning Arc,
Flux-Core Welding and Blueprint
Reading) ................................. 3
Welding Technology 65A (Beginning TIG,
MIG, and Blueprint Reading) ............... 3
Welding Technology 64B (Advanced Arc,
Flux-Core Welding and Blueprint Reading) ........... 3
Welding Technology 65B (Advanced TIG,
MIG, and Blueprint Reading) ................ 3
Welding Technology 67A (Welding Skills
Laboratory) ................................. 2 or ..2
Welding Technology 67B (Advanced
Welding Skills Laboratory) ........................ 2 or ..2

SOPHOMORE YEAR FALL SPRING
Welding Technology 69A** (Fabrication
and Installing Piping Systems) ................ 3
Welding Technology 66** (Welding
Inspection and Testing) ....................... 2
Welding Technology 69B** (Advanced
Pipe welding) .................................... 3

Total ........................................................................ 29

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

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

* Satisfies mathematics requirements for graduation.
** Offered alternative years.

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

(Revise; changed from Certificate of Achievement to
Certificate of Completion.)

WELDING
CERTIFICATE OF COMPLETION
This program is recommended for students preparing for
entry-level welding position.

CORE COURSES FALL SPRING
Industrial Technology 74*
(Measurements and Calculations) .......... 3
Welding Technology 63 (Welding Layout
and Fitting) .............................. 2
Welding Technology 64A (Beginning Arc,
Flux-Core Welding and Blueprint
Reading) ................................. 3
Welding Technology 65A (Beginning TIG,
MIG, and Blueprint Reading) ............... 3
Welding Technology 67A (Welding Skills
Laboratory) ................................. 2 or ..2
Welding Technology 70 (Introduction
to Welding) ............................... 2 or ..2

Total ........................................................................ 15

*Satisfies mathematics requirement for graduation

The above list is a suggested sequence only. Some courses may
have prerequisites. Students may take courses in any sequence
except where prerequisite applies.
CURRICULUM CHANGES 2005-06

WELDING TECHNOLOGY (WELD)

(W) DRAWING AND PIPE WELDING

CORE COURSES  FALL  SPRING

Welding Technology 64B (Advanced TIG, MIG and Blueprint Reading) .................. 3
Welding Technology 65B (Advanced TIG, MIG and Blueprint Reading) .................. 3
Welding Technology 66 (Welding Inspection and Testing) ................................... 2
Welding Technology 67B (Advanced Welding Skills Laboratory) ......................... 2 or .... 2
Welding Technology 69A (Fabrication and Installing Piping Systems) .................. 3
Welding Technology 69B (Advanced Pipe Welding) ............................................. 3
Total .................................................................................................................. 16

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

The Welding Certificate of Completion and the Inspection and Pipe Welding Certificate of Completion, combined, satisfy welding major requirements for the Associate in Science Degree.

WELDING AND BLUEPRINT READING 3 UNITS

ADVANCED TIG, MIG, AND BLUEPRINT READING 3 UNITS

May be repeated 3 times

Theory and practical application of: Arc Welding, Shielded Metal Arc Welding (SMAW) and Flux-Core Arc Welding (FCAW), plasma, carbon arc and flame cutting, American Welding Society (AWS) nomenclature and codes, welding metallurgical transformations, welding discontinuities and defects, welding electrodes and wire selection, hazardous materials regulation, general shop equipment usage, shop safety, and blueprint reading (as applied in manufacturing industry). Strongly recommended: Welding Technology 64A or 70. 1 hour lecture, 6 hours laboratory. Transfer: CSU.

BEGINNING TIG, MIG, AND BLUEPRINT READING 3 UNITS

May be repeated 3 times

Theory and practical application of: fuel and inert gas welding of ferrous and non-ferrous metals and their alloys, oxyacetylene brazing, flame and plasma cutting, GTAW (Gas Tungsten Arc Welding) and GMAW (Gas Metal Arc Welding), skill development, AWS (American Welding Society) codes and standards, supplies selection, introduction to blueprint reading, proper and safe use of welding equipment and hazardous material regulations. Strongly recommended: Welding Technology 65A and 70. 1 hour lecture, 6 hours laboratory. Transfer: CSU.

BEGINNING ARC, FLUX-CORE WELDING AND BLUEPRINT READING 3 UNITS

May be repeated 3 times

Theory and practical application of: Arc Welding, Shielded Metal Arc Welding (SMAW) and Flux-Core Arc Welding (FCAW), plasma, carbon arc and flame cutting, American Welding Society (AWS) nomenclature and codes, welding metallurgical transformations, welding discontinuities and defects, welding electrodes and wire selection, hazardous materials regulation, general shop equipment usage, shop safety, and blueprint reading (as applied in manufacturing industry). Strongly recommended: Welding Technology 70. 1 hour lecture, 6 hours laboratory. Transfer: CSU.
67A WELDING SKILLS LABORATORY  2 UNITS
(May be repeated 3 times)
Development and improvement of practical welding skills using SMAW, FCAW, MIG, GMAW, and GTAW. Strongly recommended: Welding Technology 64A. 6 hours laboratory.

(Revise)
67B ADVANCED WELDING SKILLS LABORATORY  2 UNITS
(May be repeated 3 times)
Advanced development and improvement of practical welding skills using SMAW, FCAW, MIG, GMAW, and GTAW. Strongly recommended: Welding Technology 64B and Welding Technology 65B or equivalent. 6 hours laboratory.

68 CERTIFICATION PREPARATION  1/2–2 UNITS
(May be repeated 3 times)
Welding process preparation for certification exams including the theory of American Welding Society D1.1, American Society of Mechanical Engineers Section IX, American Petroleum Institute 1104, includes laboratory practice in skills needed to take these exams. 1/2 to 6 hours laboratory.

(Revise)
69A FABRICATION AND INSTALLING PIPING SYSTEMS**  3 UNITS
(May be repeated 3 times)
Theory and practical application of: pipe joint preparation and design, API (American Petroleum Institute) and AWS (American Welding Society) welding codes specification for pipe and pipe fittings, analysis of joint configuration, plasma and flame cutting of pipes, wire and electrodes selections, beginning of pipe welding blue print and welding symbols, SMAW, GMAW, and GTAW of pipe joints, non-destructive and destructive test and qualitative concepts of evaluation. Prerequisite: Welding Technology 64B, 65B or equivalent. 1 hour lecture, 6 hours laboratory.

**Offered alternate years.

(Revise)
69B ADVANCED PIPE WELDING**  3 UNITS
(May be repeated 3 times)
Theory and practical application of pipe joint preparation and design, API (American Petroleum Institute) and AWS (American Welding Society) welding codes specifications for pipe and pipe fittings; geometric curve design for branched joint of piping systems; wire and electrodes selections; advanced welding blue print and pipe welding symbols; SMAW, GMAW, and GTAW of pipe joints; metallurgical transformation of weld Heat Affected Area (HAA); welding discontinuities and defects; destructive and non-destructive testing; and methods of inspection and testing. Prerequisite: Welding Technology 69A or equivalent. 1 hour lecture, 6 hours laboratory.

**Offered alternate years.

(Revise)
70 INTRODUCTION TO WELDING  2 UNITS
(May be repeated 3 times)
Welding industry fundamentals including introduction to SMAW, GMAW, GTAW, FCAW, oxyacetylene and braze welding, plasma and fuel gas cutting, general shop equipment usage, welding electricity fundamentals, shop safety, welding consumables identification, hazardous materials regulation, introduction to blueprint reading as applied in manufacturing industry. 1 hour lecture, 3 hours laboratory. Transfer: CSU.

(Revise title and hours/units)
71 WELDING FOR ARTISTS  2 units
(May be repeated 3 times)
Provides fundamental welding and typical shop instruction and skills that artistically inclined individuals need to learn in order to be effective in the artistic creation process. Provides instruction on types of metals (aluminum, iron, steel, cast iron, bronze, stainless steel, etc.), mechanical fastenings, cutting and permanent joining together of metals and alloys through welding processes such as SMAW, GMAW, GTAW, FCAW, oxyacetylene and braze welding, plasma and fuel gas cutting. Includes general shop equipment usage, welding electricity fundamentals, shop safety, welding consumable identification, hazardous materials regulation. 1 hour lecture, 3 hours laboratory. Transfer: CSU; CSU/GE: C1.