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I. Changes to Introduction

(Note: changes are underlined, deletions are indicated by strike-through.)

Health service fee

This fee supports the Student Health Center, which provides medical and mental health services to enrolled students. For more information, contact the Student Life Office at ext. 2086.

A new health service fee has been approved by the District Governing Board, to be implemented spring semester 2008. This mandatory $15.00 fee will fund the provision of medical and mental health services to students. All enrolled students will be required to pay the full fee unless they fit within one or more of the following exemptions (consistent with state law and district policy):

• Students who rely exclusively on prayer for healing (in accordance with the teachings of a bona fide religious sect, denomination or organization);
• Students who are attending college under an approved apprenticeship training program;
• Students who are only enrolled in non-credit classes;
• Students who are concurrently enrolled high school students;
• Students enrolled in contract education (where the fees are paid by an employer or agency, but not by the student);
• Students enrolled in less than one unit only pay $9.

For more information about the health service fee and exemptions, contact the Student Life Office in the Student Union building or call ext. 2086.

Health Services

Effective fall 2007, the college will offer medical and health services to enrolled students. These services are funded by the student health fee paid at registration. For more information, contact the Student Life Office at ext. 2086.

Effective spring semester 2008, the college will begin to offer medical and mental health services, such as care for on-campus injuries, illnesses, health assessment, advice, information and referral, a self-help medication center, health education, and personal mental health counseling in a new Student Health Center. These services will be made available to all enrolled students and will be funded by the student health fee paid at registration. For more information, contact the Student Life Office at ext. 2086.
II. Changes to requirements

CSU general education requirements

(Note: changes are underlined, deletions are indicated by strike-through.)

At the time this catalog went to press, CSU had not approved the G.E. list for 2007-2008. The information on these two pages is the list that was approved for 2007-2008 and is subject to change. Please check with the counseling department for up-to-date information. The current CSU G.E. list may be found at www.assist.org.

Note: A course may be listed in more than one area, but it may be used to satisfy only one subject requirement except in U.S. History, Constitution and American Ideals.

A. Language and reasoning

Complete 9 units (one course from A-1, A-2 and A-3). A grade of "C" or higher is required.

1. Oral communication
   Course requirement - 3 units
   Speech 120

2. Written communication
   Course requirement** - 3 units
   English 122
   **(AP English Language and Composition or English Literature and Composition exams with score of 4 or 5 may be used for A-2.)

3. Critical thinking
   Course requirement - 3 units
   Complete one course from:
   English 126
   History 122
   Philosophy 130
   Sociology 122
   Speech 121, 123

B. Natural sciences (including mathematics)

At least 3 units from B-1, at least 3 units in B-2, at least one laboratory course to meet B-3; at least 3 units in B-4. Courses that meet the laboratory requirement are noted below by an asterisk (*) beside the number.

1. Physical science
   Course requirement ** - 3-5 units
   Complete one course from:
   Astronomy 110 (add Astronomy 130* for laboratory), 120 (add Astronomy 130* for laboratory), 128*
   Chemistry 106*, 108*, 109*, 120*, 121*, 226*, 227*
   Geography 120 (add Geography 121* for laboratory), 140 (add Geography 141* for laboratory)
   Geology 120 (add Geology 122* for laboratory), 121 (add Geology 124* for laboratory), 125
   Oceanography 101, 102*
   Physical Science 112

   Physics 110 (add Physics 111* for laboratory), 113, 120*, 121*, 129*, 130*, 230*, 231*
   **(AP Chemistry exam with a score of 3, 4, or 5 may be used for B-1 and B-3)
   **(AP Physics B or C exam with a score of 3, 4, or 5 may be used for B-1 only)

2. Biological science
   Course requirement** - 3-5 units
   Complete one course from:
   Anthropology 115, 140 (add Anthropology 141L* for laboratory)
   Oceanography 101 (add Oceanography 110* for laboratory)
   **(AP Biology exam with a score of 3, 4, or 5 may be used for B-2 only.)

3. Laboratory activity
   Course requirement:
   One course in B-1 or B-2 must be a laboratory course. Courses that meet the laboratory requirement are designated by an asterisk (*) following the course number.

4. Mathematics/quantitative reasoning
   Course requirement** - 3-4 units
   A grade of "C" or higher is required.
   Complete one course from:
   Business 240
   Mathematics 121, 124, 135, 135SP (3 units), 142, 181, 182, 183, 191, 192, 193, 194, 195, 292, 294
   **(AP Mathematics Calculus AB or BC or Statistics with a score of 3, 4, or 5 may be used for B-4.)

C. Arts, literature, philosophy and foreign languages

Course requirement - 9 units

Complete at least one 3 unit course in the Arts (C-1), one 3 unit course in the Humanities (C-2), and 3 units from C-1 and/or C-2, for the total requirement of 9 units.

1. Arts
   Course requirement - 3-6 units
   Complete one or more courses from:
   Architecture 120, 121, 130, 155, 160
   Art 105, 120, 126, 140, 152, 160
   Art Digital Media 214
   Art History 193, 195, 196, 197, 199
   Broadcast Communication Arts 140
   Drama 122, 139, 140, 141, 142, 150, 170, 180, 181
   English 152
   Film 140, 160, 180, 280, 281, 282, 283, 284
   Music 120, 159, 252, 255
   Music Literature 110, 112, 113, 114, 115, 116, 117, 118
   Music Performance 136, 140, 144, 146, 162, 166, 176, 180, 240, 290
   Physical Education Dance 130, 136, 142
   Speech 148
2. Humanities
Course requirement**: 3-6 units
Complete one or more courses from:
Arabic 121
Architecture 155, 160
Broadcast Communication Arts 260
Chinese 121, 220, 221
Drama 142
English 150, 151, 152, 153, 154, 162, 163, 164, 166,
167, 168, 170, 172, 173, 175, 177, 180, 190, 222, 223,
224, 225, 252, 253, 262, 263, 272, 273
Film 160
French 121, 220, 221, 230, 231
German 121, 147, 220, 221, 230, 231
History 120, 121, 124, 125, 126, 127, 128, 129, 130,
135, 136, 140, 141, 150, 151, 160, 170, 171, 240
Humanities 105, 108, 111, 112, 115, 116, 118,
120, 123
Italian 121, 147, 220, 221, 230, 231
Japanese 121, 147, 220, 221, 245
Latin 121
Persian 121
Philosophy 120, 122, 140, 141, 220, 221, 224, 225
Russian 121, 220, 221
Sign Language 282
Spanish 121, 220, 221, 230, 231, 250
**(AP English Literature and Composition exam with a
score of 5 may also receive 3 units for C-2.)

D. Social and behavioral sciences

At least 9 units required with courses in at least 2 disciplines.
A course may be listed in more than one group, but may be
counted only once.

1. Anthropology and archaeology
   Anthropology 120, 125, 130, 135, 150

2. Economics
   Economics 101, 200, 220, 221

3. Ethnic studies
   Anthropology 120, 185
   History 124, 125, 126, 127, 128, 129, 130, 170, 171
   Psychology 140, 141
   Social Science 115, 120, 220
   Sociology 131, 135

4. Gender studies
   History 170, 171
   Social Science 120, 220

5. Geography
   Geography 130, 135

6. History
   History 120, 121, 124, 125, 126, 127, 128, 129, 130,
   135, 136, 140, 141, 150, 151, 160, 170, 171, 240

7. Interdisciplinary social or behavioral science
   Gerontology 100
   Journalism 110
   Social Science 110, 111, 115, 120, 123, 162, 163, 220

8. Political science, government and legal institutions
   Political Science 120, 121, 151, 220, 240, 250

9. Psychology
   Early Childhood Education 124
   Psychology 122, 130, 140, 141, 160, 210, 215, 220, 225,
   230, 240

10. Sociology and criminology
    Administration of Justice 120, 139
    Sociology 120, 121, 123, 124, 125, 131, 135, 140

E. Physiological and psychological studies

Course requirement - 3 units
Complete one course from:
Career 110
Counseling 120
Early Childhood Education 124
Health Science 124, 170
Nutrition 115, 160
Physical Education-Dance 130, 136, 142
Psychology 122, 140, 141, 160

Graduation requirement in U.S. history, Constitution and American ideals

Course requirements - 6 units
Required for graduation from CSU. This graduation requirement may be fulfilled, but is not required prior to transfer. Courses used to fulfill this requirement may double count with courses in Area C or D.

Choose one pair of courses from the following list:
History 120 and History 121 or 124 or 128 or 171 or Political Science 121 or 151 or Social Science 111 or 220;
History 121 and History 120 or 127 or Political Science 121 or Social Science 111 or 115 or 120 or 220;
History 124 and History 120 or 127 or Social Science 120
History 125 and Political Science 121 or Social Science 111 or 220;
History 126 and Political Science 121 or Social Science 111 or 220;
History 127 and History 121 or 124 or 128 or 171 or Political Science 121 or 151 or Social Science 111 or 220;
History 128 and History 120 or 127 or Political Science 121 or Social Science 111 or 115 or 120 or 220;
History 129 and Political Science 121 or Social Science 111 or 220;
History 130 and Political Science 121 or Social Science 111 or 220;
History 170 and History 171 or Political Science 121 or Social Science 111 or 220;
History 171 and History 120 or 127 or 170 or Political Science 121 or Social Science 111 or 115 or 120 or 220;
At the time this catalog went to press, the IGETC list for 2007-2008 had not yet been approved. The information on these pages is the list that was approved for 2007-2008 and is subject to change. Please check with the counseling department for up-to-date information. The current IGETC list may be found at www.assist.org.

Although courses may be listed in more than one area, they may be used to satisfy the requirement in only one area.

Area 1. English communication

Course requirement:
CSU - 3 courses required, 1 each from group A, B and C.
UC - 2 courses required, 1 each from Group A and B.

1-A. English composition
Course requirement - 3 units, 1 course
English 122
Note: AP English language and composition or English literature and composition: score of 4 or 5 may be used.

1-B. Critical thinking - English composition
Course requirement - 3 units, 1 course
Complete 1 course from:
English 126
History 122
Philosophy 130
Sociology 122
Speech 121+

1-C. Oral communication
Course requirement (CSU only) - 3 units, 1 course
Speech 120
Note: 1-C is a CSU requirement only. Students transferring to UC do not have to meet the Area 1-C, "oral communication" requirement.

Area 2. Mathematical concepts and quantitative reasoning

Course requirement - 3 units, 1 course
Complete 1 course from:
Business 240+
Math 124, 135+, 135SP+, 142+, 181, 182+, 183+, 191+, 192+, 193+, 194, 195, 292, 294
Note: AP Math Calculus AB, AP Math Calculus BC, or AP Statistics with a score of 3, 4, or 5 may be used for Area 2.

Area 3. Arts and humanities

Course requirement - 9 units, at least 3 courses
This requirement includes taking at least one course from the Arts (3-A) and one from the Humanities (3-B).

3-A. Arts
Complete 1 or more courses from:
Art Digital Media 214
Art History 193, 195, 196, 197, 199
Drama 139, 140, 141, 142, 180, 181
Film 140, 160, 180+, 280, 281+, 282, 283, 284
Music Literature 110, 112, 113+, 114, 115, 116, 117+, 118+

3-B. Humanities
Complete 1 or more courses from:
Arabic 121
Architecture 155+, 160+
Chinese 121, 220, 221
English 150, 151, 152+, 153, 154, 162, 163, 164, 166, 167, 168, 170, 172, 173, 175, 177, 180+, 190, 252, 253, 262, 263, 272, 273
French 121+, 220, 221, 230, 231
German 121+, 147+, 220, 221, 230, 231
Italian 121+, 147+, 220, 221, 230, 231
Japanese 121+, 147+, 220, 221, 245
Latin 121
Persian 121
Philosophy 120, 122, 140, 141, 220, 224, 225
Russian 121, 220, 221
Spanish 121+, 220, 221, 230, 231, 250
†Courses used to satisfy the CSU US History, Constitution and American Ideals requirement may not be counted in Area 3.
Area 4. Social and behavioral sciences

Course requirement - 9 units, at least 3 courses
Complete at least 3 courses from at least 2 disciplines‡:
- Administration of Justice‡ 120
- Anthropology 120, 125, 130, 135, 150
- Early Childhood Education‡ 124
- Economics 101, 200, 220+, 221+
- Geography 130
- Journalism 110
- Political Science 120, 121, 220, 240, 250
- Psychology‡ 122, 130, 140, 141, 160, 190, 210, 230, 240
- Sociology‡ 120, 121, 123, 124, 131, 135, 140

‡ Two of the three courses must be from different disciplines. Administration of Justice and Sociology are in the same discipline. Early Childhood Education and Psychology are in the same discipline.

† Courses used to satisfy the CSU American History and Institutions requirement may not be counted in Area 4.

Area 5. Physical and biological sciences

(Note: changes are boxed, deletions are indicated by strike-through.

Courses that meet the laboratory requirement are underlined and must be taken with matching lecture course.

Course requirement - 7-9 units, at least 2 courses
This requirement includes taking one physical science course and one biological science course from each of groups 5-A and 5-B. At least one course must have a laboratory.
Courses that meet the laboratory requirement are underlined and must be taken with matching lecture course.

5-A. Physical science
Course requirement - 3-5 units
Complete at least 1 course from:
- Astronomy 110+, 120+, 128+, 130
- Chemistry 106+, 108+, 109+, 120, 121, 226, 227
- Geography 120, 121, 140, 141
- Geology 120, 121, 122, 124, 125
- Oceanography 101, 102
- Physical Science 112+
- Physics 110+, 111+, 113, 120+, 121+, 129+, 130+, 230+, 231+

Note: AP Physics B or C score of 3, 4, or 5 may be used for 5-A. AP Chemistry score of 3, 4, or 5 may be used for both 5-A and 5-C.

5-B. Biological science
Course requirement - 3-5 units, at least 1 course
Complete at least 1 course from:
- Anthropology 115, 140, 141
- Biological Science 101+, 102+, 116+, 117+, 119+, 120+, 126, 130, 131, 139+, 140+, 146+, 160, 170, 205
- Oceanography 101, 110

Note: AP Biology score of 3, 4, or 5 may be used for lecture only.

5-C. Laboratory
Courses that meet the laboratory requirement are underlined in Area 5-A and 5-B and must be taken with matching lecture course.

Area 6. Language other than English (UC requirement only)

Students shall demonstrate proficiency in a language other than English in one of the following ways:
- Proficiency equivalent to two years of high school study in the same language. Three years of high school study in American Sign Language. (A junior or senior high school transcript or approved test score must be on file in the Admissions Office.) or
- Must have successfully completed one of the following foreign language courses:
  - Chinese 120
  - French 120
  - German 120+, 146+
  - Italian 120+, 146+
  - Japanese 120+, 146+
  - Latin 120
  - Persian 120
  - Russian 120
  - Sign Language 281
  - Spanish 120+
  or
- Requirement validated by more advanced course.
  Please see a counselor for details on required test scores or other alternatives to demonstrating proficiency.

CSU graduation requirement in U.S. history, Constitution and American ideals

Choose one pair of courses from the following list:
- History 120 and History 121 or 124 or 128 or 171 or Political Science 121 or 151 or Social Science 111 or 220;
- History 121 and History 120 or 127 or Political Science 121 or Social Science 111 or 115 or 120 or 220;
- History 124 and History 120 or 127 or Social Science 120
- History 125 and Political Science 121 or Social Science 111 or 220;
- History 126 and Political Science 121 or Social Science 111 or 220;
- History 127 and History 121 or 124 or 128 or 171 or Political Science 121 or 151 or Social Science 111 or 220;
DVC General education requirements

(Note: changes are underlined, deletions are indicated by strike-through.)

These are the 2007-2008 DVC G.E. requirements and are subject to change. Please check with the counseling department for up-to-date information or visit www.dvc.edu.

I. Language and reasoning

A. English composition

Course requirement - 3 units
Complete with a "C" grade or better:
English 122
(AP English Language and Composition or English Literature and Composition with a score of 4 or 5, the course requirement will be waived)

B. Communications and analytical thinking

Course requirement - 3-4 units
Complete one course from:
Business 240, 250, 255
Computer Science 110
English 126
History 122
Mathematics 124, 125, 135, 135SP (3 units), 142, 181, 182, 183, 191, 192, 193, 194, 195, 292, 294
Philosophy 130
Sociology 122
Speech 121
(AP Mathematics Calculus AB or BC or Statistics with a score of 3, 4, or 5, the course requirement will be waived.)

C. Mathematics comprehension

Course requirement - 0-4 units
Satisfy either 1) or 2) below.
1) Complete one of the following courses with a grade "C" or better, or transfer credit for an equivalent course from another accredited college or university.
Business 240
Engineering 111
Mathematics 110, 110SP (4 units), 114, 120, 120SP (4 units), 121, 124, 125, 135, 135SP (3 units), 142, 181, 182, 183, 191, 192, 193, 194, 195, 292, 294
2) Satisfy one of the following:
• Receive a "C" grade or better in the second term of a two-term course in high school algebra.
• Score at least 400 on the SAT math test.
• Score 22 or above on the math section of the ACT test.
• Pass any of the CLEP math exams.
• Score 3, 4, or 5 on AP Math Calculus AB or BC or Statistics.

Note: Advanced placement exams - Acceptable scores of 3, 4, or 5 can be used in some areas towards meeting IGETC subject areas as noted in that section. Note that an acceptable score on an English exam may not be used to meet the Critical Thinking - English Composition requirement.

* course may be listed in more than one area, but shall not be certified in more than one area.
+ Indicates that transfer credit may be limited by either UC or CSU or both. Please consult with a counselor for additional information.

II. Natural sciences

Course requirement - 3-5 units
Complete one course from:
Astronomy 110, 120, 128
Biological Science 101, 102, 116, 117, 130
Chemistry 106, 108, 109, 120
Geography 120, 140
Geology 120, 121, 125

U.S. History, Constitution and American Ideals is considered by CSU to be a statutory rather than a general education requirement.)
Oceanography 101  
Physical Science 112  
Physics 110, 113, 120, 121, 129, 130  
(AP Biology or Chemistry or Physics B or Physics C with a score of 3, 4, or 5, the course requirement will be waived.)

### III. Arts and humanities

Course requirement - 3-4 units  
Complete one course from:  
- Architecture 155, 160  
- Art 156  
- Art History 193, 195, 196, 197, 199  
- Broadcast Communication Arts 140, 260  
- Dance 201  
- Drama 140, 141, 142, 170, 180, 181  
- English 150, 152, 154, 162, 163, 164, 166, 167, 168, 170, 172, 173, 175, 177, 180, 190, 252, 253, 262, 263, 272, 273  
- Film 140, 160, 180  

### IV. Social and behavioral sciences

Course requirements - 6 units  
Complete two courses from:  
- History 120, 121, 124, 125, 126, 127, 128, 129, 130, 170, 171  
- Political Science 120, 121, 220, 240, 250  
- Social Science 110, 111, 115, 120, 220  
- Special Education 101, 102  
**Note:** Students planning to transfer to CSU; see CSU general education requirements in U. S. History, Constitution, and American Ideals.

### V. Physiological and psychological studies

**A. Ecology of human health**  
Course requirement - 3 units  
Complete one course from:  
- Health Science 124, 140, 170  
- Nutrition 115, 160  
**Note:** The course requirement may be waived for certain health science majors. When waived for religious purposes, the student must substitute a nutrition or biological science course other than one used to meet the basic science requirements. Affiliation with a religion which denies physical causes of diseases must be verified through the Admissions and Records Office.

**B. Interpersonal relationships**  
Course requirement - 3 units  
Complete one course from:  
- Psychology 122, 140, 141, 160

**C. Physical education**  
Course requirement - 2 units  
(Courses may vary in units.)  
Complete one or more of the physical education courses: activity, adaptive, combative, dance, or intercollegiate athletics courses to meet the PE requirement.  
**Note:** Physical education theory courses may not be used.

### VI. Multicultural studies

Course requirement - 0-3 units  
*(Asterisked courses listed below also appear in categories I through V. They may simultaneously fulfill two requirements. However, the units are only counted once.)*

- Addiction Studies 155  
- Administration of Justice 130  
- Anthropology 120, 135  
- Broadcast Communication Arts 260  
- Culinary Arts 228  
- Drama 142*  
- English 162*, 168*, 170*, 173*, 177*, 190*, 225, 262*  
- Film 160*  
- History 124*, 125*, 126*, 127*, 128*, 129*, 130*, 170*, 171*  
- Humanities 115*  
- Music Literature 112*, 114*, 115*, 116*  
- Psychology 140*, 141*  
- Social Science 115*, 120*, 220*  
- Sociology 125, 131, 135

### VII. Information literacy

Course requirement - 0-1 unit  
Complete one course from:  
- Biological Science 130  
- Career 110  
- Dental Hygiene 134  
- Health Science 124  
- Library Studies 121  
- Nutrition 120  
- Physical Education Theory 210

**Total general education units = 26-38**  
**Total units required for AA/AS degree = 60**
III. Changes to degree and certificate programs

New associate degrees

Associate in arts

Associate in arts - Business - transfer

This curriculum is designed to provide an opportunity for the business major to achieve an associate in arts degree in business-transfer while completing the first and second year requirements for transfer to a four-year institution. A baccalaureate degree is recommended preparation for those considering professional careers in business. Completion of this curriculum will demonstrate commitment to the field and provide comprehensive preparation for upper-division work.

Although the associate degree recognizes the completion of lower division general education requirements, it does not guarantee admission to a specific college or university nor does it guarantee admission to a specific major. Some majors and colleges or universities may require different lower division preparation and/or a higher GPA than is necessary for this associate degree.

Students who intend to transfer must meet all current transfer requirements including minimum GPA. Students are strongly advised to meet with a counselor to discuss transfer requirements and lower division major preparation that is needed for their intended transfer school.

Note: a student may be awarded an associate degree in this major without being fully eligible for transfer.

To earn an associate degree, students must: complete each course used to meet a major requirement with a "C" grade or better and maintain an overall GPA of 2.5 or better in the coursework required for the major; complete Diablo Valley College general education requirements; complete any elective courses to complete a minimum of 60 units; complete all graduation requirements; and complete at least 25% of all major coursework at Diablo Valley College. Certain courses may satisfy both a major and a DVC general education requirement; however, the units are only counted once.

units

general education requirements .......................................................... 27-38
major requirements
BUSAC 188 Principles of Accounting I .................................................. 4
BUSAC 187 Principles of Accounting II .................................................. 4
ECON 220 Principles of Macroeconomics ............................................. 3
ECON 221 Principles of Microeconomics ............................................. 3
MATH 182 Calculus for Management, Life Science and Social Science I .................................................. 3

plus a minimum of 3 units from:
BUS 240 Business Statistics ................................................................. 3
MATH 142 Elementary Statistics with Probability .................................. 4

plus a minimum of 3 units from:
BUS 109 Introduction to Business .......................................................... 3
BUS 294 Business Law ........................................................................ 3

Total units for the major ................................................................. 23

units

electives
units from a selection of degree applicable courses ......................... 5-16

Total units for the degree ................................................................. 60

*The above courses have specific prerequisites. See course description for details.

Associate degrees - revisions and changes

(Note: changes are underlined, deletions are indicated by strike-through.)

Art digital media – ARTDM

Possible career opportunities

Digital media or graphic design jobs cover all ends of the creative spectrum. Some possible career options include website designer/developer, digital media designer, computer-graphic artist, animator and cartoonist, interface designer, instructional designer, production artist, video specialist, audio specialist, digital media programmer, technical writer, informational designer, digital media company executive, Internet consultant, and computer game designer.

Associate in arts

Art digital media

Associate in arts - Art digital media

This program of study will provide students with the design and technical skills needed for creating non-linear interactive digital media. Students will participate in a collaborative, team-oriented learning experience that mirrors the digital media industry design and production process. Additionally, students will explore digital media career opportunities and develop a professional digital media portfolio for entry into the workforce.

To earn an associate in arts degree, students must complete each course used to meet a major requirement with a "C" grade or better. Required courses are available in the evening and during the day. Certain courses may satisfy both a general education and major requirement; however, the units are only counted once.

units

general education requirements .......................................................... 27-38
major requirements
ART 105 Introduction to Drawing, Color, and 2D Design ................................................. 3
ARTDM 110 Digital Imaging Process and Technique I .................................. 1.5
ARTDM 111 Digital Imaging Process and Technique II ................................ 1.5
ARTDM 130 Introduction to Digital Audio ............................................... 1.5
ARTDM 149 Introduction to Digital Video ............................................... 1.5
ARTDM 190 Projects in Multimedia ......................................................... 3
ARTDM 191 Multimedia Portfolio Development ..................................... 3

choose 8-9 units from one of the following six specialty areas:
character animation
ART 107 Figure Drawing I ................................................................. 3
ARTDM 165 Cartoon Drawing for Digital Animation ................................ 3
ARTDM 170 Multimedia for Web Delivery ............................................. 3
digital audio
MUSIC 172 Introduction to Electronic Music and MIDI ........................ 3
MUSIC 173 Advanced Electronic Music ............................................... 3
MUSIC 174 Introduction to ProTools ..................................................... 3
digital imaging
ARTDM 112 Digital Imaging for the Artist .................. 3
ARTDM 214 Introduction to Graphic Design .................. 3
ARTDM 115 Digital Imaging Process and Technique III ...... 3

motion graphics
ARTDM 140 Motion Graphics for Digital Media ................ 3
ARTDM 145 Intermediate Digital Video Production ............ 3
ARTDM 170 Multimedia for Web Delivery .................... 3

3D modeling and animation
ARTDM 160 3D Modeling and Animation I .................... 3
ARTDM 161 3D Modeling and Animation II .................... 3
ARTDM 165 Cartoon Drawing for Digital Animation ............ 3

web design
ARTDM 170 Multimedia for Web Delivery .................... 3
ARTDM 171 Web Design ................................ 1
COMSC 095 WWW Publishing with HTML ....................... 1
COMSC 096 Advanced WWW Publishing ........................ 1

plus at least 9 units from:
ART 106 Drawing and Composition ......................... 3
ART 107 Figure Drawing I ................................ 3
ART 125 Color Theory and Its Application to 2-D Media .... 3
ARTDM 100 Introduction to Multimedia Workstations ...... 1
ARTDM 112 Digital Imaging for the Artist .................. 3
ARTDM 115 Digital Imaging Process and Technique III ...... 3
ARTDM 117 Digital Illustration ............................. 3
ARTDM 120 Interactive Authoring for Multimedia .......... 3
ARTDM 140 Motion Graphics for Digital Media ............... 3
ARTDM 145 Intermediate Digital Video Production .......... 3
ARTDM 160 3D Modeling and Animation I .................... 3
ARTDM 161 3D Modeling and Animation II .................... 3
ARTDM 165 Cartoon Drawing for Digital Animation ............ 3
ARTDM 170 Multimedia for Web Delivery .................... 3
ARTDM 171 Web Design ................................ 3
ARTDM 175 Flash Interactivity ................................ 3
ARTDM 214 Introduction to Graphic Design .................. 3
ARTDM 224 Typography .................................... 3
BUS 109 Introduction to Business ........................... 3
BUSMG 191 Small Business Management ...................... 3
COMSC 095 WWW Publishing with HTML ....................... 1
COMSC 096 Advanced WWW Publishing ........................ 1
COMSC 255 Programming with Java ........................... 4
COMSC 265 Advanced Programming with C and C++ ........... 4
L 114 Developing Web Pages for Library - Information ... 2
MUSIC 172 Introduction to Electronic Music and Midi ...... 3
MUSIC 173 Advanced Electronic Music ........................ 3
MUSIC 174 Introduction to Pro Tools .......................... 3

Total units for the major 32-33

electives
units from a selection of degree applicable courses ........... 0-1

Total units for the degree 57-68

Note: there may be no duplication of course units between major specialty area requirements and elective courses.

Associate in arts degree - Broadcast communication arts
The associate degree program in broadcast communication arts is designed as a two year curricular pathway that offers a broad general education while preparing students for entry-level positions in the broadcast communication industries such as: associate producer, assistant director, on-camera talent, camera operator, sound technician, video switcher, floor director, videotape editor, production assistant, radio board operator, radio producer, radio production engineer, and radio on-air talent.

Students must complete each of the required courses with a "C" grade or better. Required courses can only be completed by attending a combination of day and evening classes. Certain courses may satisfy both a major and a DVC general education requirement; however, the units are only counted once. Selected courses in the program may also meet some lower division requirements for bachelor of arts programs at certain California State University campuses. Students who intend to transfer are advised to consult with a counselor regarding specific requirements.

units

plus at least 3 units from:
ARTDM 195 Applied Production for Digital Media ............ 3
COOP 170 Occupational Work Experience Education .......... 1-4

plus at least 6 units from:
ARTDM 111 Digital Imaging Process and Technique II ....... 1.5
ARTDM 115 Digital Imaging Process and Technique III ..... 1.5
ARTDM 149 Introduction to Digital Video .................... 1.5
ARTDM 170 Multimedia for Web Delivery .................... 1.5
BCA 126 Intermediate Digital Field Production ............... 3
BCA 129 Intermediate TV Studio Production ................ 3
BCA 132 Advanced TV Studio Production ....................... 3
BCA 135 Music Video Production ............................... 3
BCA 166 Intermediate Digital Editing ........................ 3
BCA 190 Topics in Broadcast Communication Arts ............ 3
BCA 260 American Ethnic Images in Television ............... 3
BCA 298 Independent Study .................................. 3
BUSMG 191 Small Business Management ...................... 3
BUSMG 192 Entrepreneurship and Venture Management .... 3
BUSMK 255 Advertising ...................................... 3
DRAMA 122 Basic Principles of Acting ........................ 3
DRAMA 123 Intermediate Principles of Acting ............... 3
DRAMA 124 Advanced Principles of Acting .................. 3
DRAMA 126 Acting on Camera ................................ 3
ELTRN 116 Introduction to Electronics ...................... 2-4
ENGL 151 The Short Story ................................... 3
ENGL 152 The Short Story ................................... 3
FILM 180 Comparative Film Studies .......................... 3
FILM 280 Introduction to Film: American Cinema - 1900 to 1950 ...... 3
FILM 281 Introduction to Film: World Cinema - 1900 to 1960 ....... 3
**Associate in science degree - Library and information technology**

The associate in science degree in library and information technology prepares students for employment in the dynamic field of library and information services. The skills learned in this program may be used in public, school, academic, and corporate libraries, as well as in other positions requiring information management skills. If you like working with people, books and information, consider a career in library and information technology.

To earn the degree, students must complete each course used to meet a major requirement with a "C" grade or better and maintain an overall GPA of 2.5 or better in the coursework required for the major. Required classes are available online, in the evening, and some are offered in the day. Certain courses may satisfy both a major and a DVC general education requirement, however the units are only counted once. Other electives and course substitutions not listed below are possible with department chairperson approval.

**general education requirements** .......................................................... 27-38 units

**major requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>L 100</td>
<td>Introduction to a Career in Library and Information Technology</td>
<td>1</td>
</tr>
<tr>
<td>L 103</td>
<td>Access to Library Materials</td>
<td>2</td>
</tr>
<tr>
<td>L 104</td>
<td>Cataloguing for Paraprofessionals</td>
<td>3</td>
</tr>
<tr>
<td>L 105</td>
<td>Reference and Research Services: Tools and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>L 108</td>
<td>Acquisition of Library Materials</td>
<td>1</td>
</tr>
<tr>
<td>LS 121</td>
<td>Information Competency and Research Skills</td>
<td>1</td>
</tr>
</tbody>
</table>

**plus at least 2 units from:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP 170</td>
<td>Occupational Work Experience Education</td>
<td>1-4</td>
</tr>
<tr>
<td>COOP 170A</td>
<td>Internship in Occupational Work Experience Education</td>
<td>1-4</td>
</tr>
</tbody>
</table>

**plus at least 2-6 units from:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 177</td>
<td>Children's Literature</td>
<td>3</td>
</tr>
<tr>
<td>L 109</td>
<td>Delivering Library Services: Issues, Theory and Techniques</td>
<td>2</td>
</tr>
<tr>
<td>L 111</td>
<td>Storytelling</td>
<td>2</td>
</tr>
<tr>
<td>L 112</td>
<td>Internet Skills for Library Personnel</td>
<td>1</td>
</tr>
<tr>
<td>L 114</td>
<td>Developing Web Pages for Library Information</td>
<td>2</td>
</tr>
<tr>
<td>L 150</td>
<td>Topics in Library and Information Technology</td>
<td>0.3-4</td>
</tr>
<tr>
<td>LS 130</td>
<td>Internet and Online Research</td>
<td>1</td>
</tr>
<tr>
<td>LS 150</td>
<td>Topics in Library Studies</td>
<td>0.3-4</td>
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**plus at least 0-6 units from:**

<table>
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<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTDM 100</td>
<td>Introduction to Multimedia Workstations</td>
<td>1</td>
</tr>
<tr>
<td>ARTDM 110</td>
<td>Digital Imaging Process and Technique I</td>
<td>1</td>
</tr>
<tr>
<td>ARTDM 171</td>
<td>Web Design</td>
<td>3</td>
</tr>
<tr>
<td>BUSMG 121</td>
<td>Practices and Concepts of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>COMSC 100</td>
<td>Introduction to Computers and Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>COOP 170</td>
<td>Occupational Work Experience Education</td>
<td>1-4</td>
</tr>
<tr>
<td>COOP 170A</td>
<td>Internship Occupational Work Experience Education</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total units for the major** 31.5 units

**Total units for the degree** 60-63.5 units

---

**Associate in science degree - Fitness instruction/personal training**

The associate in science degree in physical education: fitness instruction is a two-year course of study designed for students who are interested in a career in the fitness industry. The associate in science degree is appropriate for those students who wish to become a personal trainer or group exercise instructor. All students will take the core courses as indicated and then choose either the personal trainer or group exercise option. Completion of the degree will also prepare students to sit for one of the national personal training of group exercise instructor certification examinations. Students who intend to transfer to a four-year institution must consult with program faculty and college counselors to ensure that the requirements for transfer to appropriate institutions are met. Possible programs of study at the baccalaureate level include kinesiology, exercise science, strength and conditioning. To earn a degree, students must complete each course used to meet a major requirement with a "C" grade or better. Certain courses may satisfy both a major and a DVC general education requirement; however the units are only counted once.

**general education requirements** .......................................................... 27-38 units

**major requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 230</td>
<td>Advanced First Aid and CPR</td>
<td>3</td>
</tr>
<tr>
<td>PETHE 259</td>
<td>Sports Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PETHE 281</td>
<td>Principles of Optimizing Human Performance</td>
<td>3</td>
</tr>
<tr>
<td>PETHE 282</td>
<td>Exercise Techniques and Physical Fitness Testing</td>
<td>1</td>
</tr>
<tr>
<td>PETHE 284</td>
<td>Introduction to Sports Medicine and Athletic Training</td>
<td>3</td>
</tr>
</tbody>
</table>

**plus at least 3 units from:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOSC 101 or 102</td>
<td>Fundamentals of Biological Science</td>
<td>3-4</td>
</tr>
<tr>
<td>BIOSC 116 or 117</td>
<td>Human Biology</td>
<td>3-4</td>
</tr>
<tr>
<td>BIOSC 120</td>
<td>Introduction to Human Anatomy and Physiology</td>
<td>5</td>
</tr>
<tr>
<td>BIOSC 139</td>
<td>Human Anatomy</td>
<td>5</td>
</tr>
<tr>
<td>BIOSC 140</td>
<td>Introduction to Human Physiology</td>
<td>5</td>
</tr>
</tbody>
</table>

**plus at least 3 units from:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 124</td>
<td>Health and Wellness</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 170</td>
<td>Women’s Health</td>
<td>3</td>
</tr>
</tbody>
</table>

**plus at least 3 units from:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUTRI 120</td>
<td>Sports Nutrition: Fueling the Athlete</td>
<td>3</td>
</tr>
<tr>
<td>NUTRI 160</td>
<td>Nutrition: Science and Applications</td>
<td>3</td>
</tr>
</tbody>
</table>
Emphasis requirements: all students will complete the core courses above and also select an area of emphasis below:

**Personal training emphasis**
PETHE 291 Professional Aspects of Personal Training and Fitness Instruction................................. 3

**plus at least 2 units from:**
PE 124 Weight Training........................................ 0.5-2
PE 125 Power Lifting/Training................................. 0.5-2
PE 126 Super Circuit......................................... 0.5-2
PE 135 Power Lifting for Women............................... 0.5-2

**Group exercise emphasis**
PETHE 293 Professional Aspects of Group Exercise Instruction.................................................. 2

**plus 3 units from a minimum of three courses from:**
PE 107 Stretch and Yoga for Sports........................................ 0.5-2
PE 108 Beginning Hatha Yoga................................. 0.5-2
PE 116 Step Aerobics........................................ 0.5-2
PE 121 Aerobics........................................ 0.5-2
PE 126 Super Circuit........................................ 0.5-2
PE 127 Hips, Thighs and Abs................................. 0.5-2
PE 128 Cardio Kickboxing..................................... 0.5-2
PE 129 Cycling/Spinning Training............................. 0.5-2

**Total units for the major** 27-29

**Electives**
*units from a selection of degree applicable courses* .................. 0-6

**Total units for the degree** 60

**Recommended degree electives**
BUSMG 191 Small Business Management...................... 3
PETHE 279 Overview of Sports Medicine and Fitness Professions........................................ 3
PETHE 285 Advanced Sports Medicine and Athletic Training.................................................. 3
PETHE 210 Introduction to Kinesiology.......................... 3
PETHE 283 Introduction to Sports Massage........................ 3
PETHE 292 Personal Training National Examination Preparation........................................ 3

**New certificates of achievement**

**Certificate of achievement - Business - core transfer**
This curriculum prepares the student for entry into business related professional programs or jobs that do not require degrees. Certificate requirements provide a strong general business foundation for employment in business administration, accounting, management, marketing, finance, international business, or other business related area. Additionally, it completes most, if not all, of the undergraduate business major requirements for transfer should a student decide to transfer prior to completing all the requirements for the DVC associate in arts degree in Business-transfer; or decide to complete the lower division general education requirements and transfer to a four-year institution at a later time. This certificate provides a core curriculum for employment in business or for the further study of business.

To earn a certificate of achievement students must complete each course used to meet a certificate requirement with a “C” grade or better; maintain an overall GPA of 2.5 or better in the coursework required for the certificate; and complete at least 25% of all coursework at Diablo Valley College.

**required courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>units</th>
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</thead>
<tbody>
<tr>
<td>BUSAC 186</td>
<td>4</td>
</tr>
<tr>
<td>BUSAC 187*</td>
<td>4</td>
</tr>
<tr>
<td>ECON 220*</td>
<td>3</td>
</tr>
<tr>
<td>ECON 221*</td>
<td>3</td>
</tr>
<tr>
<td>MATH 182*</td>
<td>3</td>
</tr>
</tbody>
</table>

**plus a minimum of 3 units from:**

<table>
<thead>
<tr>
<th>Course</th>
<th>units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 240*</td>
<td>3</td>
</tr>
<tr>
<td>MATH 142*</td>
<td>4</td>
</tr>
</tbody>
</table>

**plus a minimum of 3 units from:**

<table>
<thead>
<tr>
<th>Course</th>
<th>units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 109</td>
<td>3</td>
</tr>
<tr>
<td>BUS 294</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total units required** 23

*The above courses have specific prerequisites. See course description for details.

**Certificates of achievement - revisions to requirements**
(Nota: changes are underlined, deletions are indicated by strike-through)

| Certificate of achievement | ARTDM 187* Principles of Economics | ARTDM 188* Business Economics
|----------------------------|-----------------------------------|-----------------------------|

**Art digital media – ARTDM**

**Certificates of achievement**

- **Art digital media - Character animation**
- **Art digital media - Digital audio**
- **Art digital media - Digital imaging**
- **Art digital media - Motion graphics**
- **Art digital media - 3D Modeling and animation**
- **Art digital media - Web design**

**Certificate of achievement - Art digital media**
The art digital media program prepares students for entry level employment in one of six specialty areas of the digital media industry: character animation, digital audio, digital imaging, motion graphics, 3D modeling and animation, and web design. This program of study will provide students with the design and technical skills needed for creating non-linear interactive digital media. Students will participate in a collaborative team-oriented learning experience that mirrors the digital media industry design and production process. Additionally, students will explore digital media career opportunities and develop a professional digital media portfolio for entry into the workforce.

To earn a certificate of achievement, students must complete each course used to meet a certificate requirement with a “C” grade or better. Required courses are available in the evening and during the day.

**required courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 105</td>
<td></td>
</tr>
<tr>
<td>ARTDM 110</td>
<td>3</td>
</tr>
<tr>
<td>ARTDM 111</td>
<td>1.5</td>
</tr>
<tr>
<td>ARTDM 130</td>
<td>1.5</td>
</tr>
</tbody>
</table>

DVC Catalog ADDENDUM 2007-2008 - 12
Certificate of achievement - Office professional

This certificate program prepares students for entry-level positions in small and large business offices requiring support staff such as receptionists, administrative assistants, and general clerical assistance.

To earn a certificate of achievement, students must complete each course used to meet a certificate requirement with a “C” grade or better. Certificate requirements can only be completed by attending both day and evening classes. Course requirements must be completed within three years of entering the program. At least 25 percent of the units must be completed at DVC. Substitutions will be considered on an individual basis.

Changes occur rapidly in the office information and technology environment; therefore, students should meet with an office professional certificate advisor in the business division to determine elective coursework that will assist them in reaching their personal and professional goals.

Certificate of achievement - Electronics technology

This program prepares students for jobs installing, repairing, maintaining and servicing electronic equipment. Electronics jobs are found in the fields of medical, industrial, commercial, computers, consumer products, radio and television, instrumentation, communications, automotive and others.

Selected courses may meet some of the lower division requirements for bachelor of science programs in engineering technology and industrial technology at certain California State University campuses and private technical colleges. Consult with electronics department faculty and college counselors for more information.

To earn a certificate of achievement, students must complete each course used to meet a certificate requirement with a “C” grade or better and maintain an overall GPA of 2.5 or better in the coursework required for the certificate.

ARTDM 149 Introduction to Digital Video .......................... 1.5
ARTDM 190 Projects in Multimedia ..................................... 3
ARTDM 191 Multimedia Portfolio Development ...................... 3

plus 8-9 units from one of the 6 specialty areas listed below:

Character animation
ART 107 Figure Drawing I ............................................. 3
ARTDM 165 Cartoon Drawing for Digital Animation ............... 3
ARTDM 170 Multimedia for Web Delivery ......................... 3

Digital audio
MUSIC 172 Introduction to Electronic Music and MIDI ............. 3
MUSIC 173 Advanced Electronic Music ............................. 3
MUSIC 174 Introduction to ProTools .................................. 3

Digital imaging
ARTDM 112 Digital Imaging for the Artist .......................... 3
ARTDM 214 Introduction to Graphic Design ....................... 3
ARTDM 115 Digital Imaging Process and Technique III ........... 3

Motion graphics
ARTDM 140 Motion Graphics for Digital Media ..................... 3
ARTDM 145 Intermediate Digital Video Production .................. 3
ARTDM 170 Multimedia for Web Delivery ......................... 3

3D modeling and animation
ARTDM 160 3D Modeling and Animation I ......................... 3
ARTDM 161 3D Modeling and Animation II .......................... 3
ARTDM 165 Cartoon Drawing for Digital Animation ............... 3

Web design
ARTDM 170 Multimedia for Web Delivery ........................... 3
ARTDM 171 Web Design ............................................... 3
COMSC 095 WWW Publishing with HTML .......................... 1
COMSC 096 Advanced WWW Publishing ............................ 1

plus at least 9 units from:
ART 106 Drawing and Composition .................................. 3
ART 107 Figure Drawing ............................................... 3
ART 125 Color Theory and its Application to 2-D Media .......... 3
ARTDM 100 Introduction to Multimedia Workstations ............ 1
ARTDM 112 Digital Imaging for the Artist .......................... 3
ARTDM 115 Digital Imaging Process and Technique III ......... 1
ARTDM 117 Digital Illustration ....................................... 3
ARTDM 120 Interactive Authoring for Multimedia ................. 3
ARTDM 149 Motion Graphics for Digital Media ..................... 3
ARTDM 150 Intermediate Digital Video Production ................. 3
ARTDM 161 3D Modeling and Animation II .......................... 3
ARTDM 165 Cartoon Drawing for Digital Animation ............... 3
ARTDM 170 Multimedia for Web Delivery ........................... 3
ARTDM 171 Web Design ............................................... 3
ARTDM 175 Flash Interactivity ....................................... 3
ARTDM 214 Introduction to Graphic Design ....................... 3
ARTDM 224 Typography ............................................... 3
BUS 109 Introduction to Business ..................................... 3
BUSMG 191 Small Business Management ............................ 3
COMSC 095 WWW Publishing with HTML ......................... 1
COMSC 096 Advanced WWW Publishing ............................ 1
COMSC 255 Programming with Java .................................. 3
COMSC 265 Advanced Programming with C and C++ ............... 4
L 114 Developing Web Pages for Library Information ............. 2
MUSIC 172 Introduction to Electronic Music and MIDI ............ 3
MUSIC 173 Advanced Electronic Music ............................. 3
MUSIC 174 Introduction to ProTools .................................. 3

Certificate participants must also meet established keyboarding and ten-key skill levels.
Keyboarding speed: 50 wpm; 10-Key: 120 kspm

Certificate of achievement - Electronics technology

This program prepares students for jobs in the fields of medical, industrial, commercial, computers, consumer products, radio and television, instrumentation, communications, automotive and others.

Selected courses may meet some of the lower division requirements for bachelor of science programs in engineering technology and industrial technology at certain California State University campuses and private technical colleges. Consult with electronics department faculty and college counselors for more information.

To earn a certificate of achievement, students must complete each course used to meet a certificate requirement with a “C” grade or better and maintain an overall GPA of 2.5 or better in the coursework required for the certificate.

required courses
BUS 101 Business English ............................................ 3
BUS 103 Applied Business Mathematics ............................ 3
BUS 250 Business Communications I .............................. 3
BUSAC 181 Applied Accounting ................................. 3
BUSIM 111 Keyboarding Level II: Intermediate Word Processing and Skill Development .... 3
BUSIM 140 Database Records and Information Management 3
BUSIM 145 Business Spreadsheet Applications ................... 2
BUSIM 211 Office Procedures and Technology ..................... 3

elective units determined in consultation with certificate advisor 6-9

Total units required 29-32

Note: there may be no duplication of course units between specialty area requirements and elective courses.
Certificate of achievement - Library and information technology

This certificate program prepares students for employment in the dynamic field of library and information services. The skills learned in this program may be used in public, school, academic, and corporate libraries, as well as in other jobs or businesses requiring information management skills. If you like working with people, books and information, consider a career in library and information technology.

To earn a certificate of achievement, students must complete each course used to meet a certificate requirement with a “C” grade or better and maintain an overall GPA of 2.5. Required classes are available online, in the evening and some are offered in the day. Other electives and course substitutions not listed below are possible with department chairperson approval.

required courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>L 100</td>
<td>Introduction to a Career in Library and Information Technology</td>
<td>1</td>
</tr>
<tr>
<td>L 103</td>
<td>Access to Library Materials</td>
<td>2</td>
</tr>
<tr>
<td>L 104</td>
<td>Cataloging for Paraprofessionals</td>
<td>3</td>
</tr>
<tr>
<td>L 105</td>
<td>Reference and Research Services: Tools and Techniques</td>
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</tr>
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<td>Acquisition of Library Materials</td>
<td>1</td>
</tr>
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<td>Information Competency and Research Skills</td>
<td>1</td>
</tr>
</tbody>
</table>

plus at least 2 units from:

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<thead>
<tr>
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<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP 170</td>
<td>Occupational Work Experience Education</td>
<td>1-4</td>
</tr>
<tr>
<td>COOP 170A</td>
<td>Internship in Occupational Work Experience Education</td>
<td>1-4</td>
</tr>
</tbody>
</table>

plus at least 2-6 units from:

<table>
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<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ENGL 177</td>
<td>Children’s Literature</td>
<td>3</td>
</tr>
<tr>
<td>L 109</td>
<td>Delivering Library Services: Issues, Theory and Techniques</td>
<td>2</td>
</tr>
<tr>
<td>L 111</td>
<td>Storytelling</td>
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<td>L 112</td>
<td>Internet Skills for Library Personnel</td>
<td>1</td>
</tr>
<tr>
<td>L 114</td>
<td>Developing Web Pages for Library Information</td>
<td>2</td>
</tr>
<tr>
<td>L 150</td>
<td>Topics in Library and Information Technology</td>
<td>0.3-4</td>
</tr>
<tr>
<td>LS 130</td>
<td>Internet and Online Research</td>
<td>1</td>
</tr>
<tr>
<td>LS 150</td>
<td>Topics in Library Studies</td>
<td>0.3-4</td>
</tr>
</tbody>
</table>

plus at least 0-6 units from:

<table>
<thead>
<tr>
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<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Introduction to Multimedia Workstations</td>
<td>1</td>
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<tr>
<td>ARTDM 110</td>
<td>Digital Imaging Process and Technique I</td>
<td>1.5</td>
</tr>
<tr>
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<td>Web Design</td>
<td>3</td>
</tr>
<tr>
<td>BUSMG 121</td>
<td>Practices and Concepts of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>COMSC 095</td>
<td>WWW Publishing with HTML</td>
<td>1</td>
</tr>
<tr>
<td>COMSC 096</td>
<td>Advanced WWW Publishing</td>
<td>1</td>
</tr>
<tr>
<td>COMSC 100</td>
<td>Introduction to Computers and Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>COOP 170</td>
<td>Occupational Work Experience</td>
<td>1-4</td>
</tr>
<tr>
<td>COOP 170A</td>
<td>Internship in Occupational Work Experience Education</td>
<td>1-4</td>
</tr>
</tbody>
</table>

Total units required 22

Certificate of achievement - Fitness instruction/personal training

This program is a one-year course of study that prepares students to obtain entry-level employment as a personal trainer or group exercise instructor. All students will complete the core courses as indicated and then choose either the personal trainer or group exercise option. Completion of the certificate requirements will also prepare students to sit for one of the national personal training or group exercise instructor examinations.

To earn a certificate of achievement, a student must complete each course used to meet a certificate requirement with a grade of “C” or better. Courses are available in the day and evening.

required courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 230</td>
<td>Advanced First Aid and CPR</td>
<td>3</td>
</tr>
<tr>
<td>PETHE 259</td>
<td>Sports Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PETHE 281</td>
<td>Principles of Optimizing Human Performance</td>
<td>3</td>
</tr>
<tr>
<td>PETHE 282</td>
<td>Exercise Techniques and Physical Fitness Testing</td>
<td>1</td>
</tr>
<tr>
<td>PETHE 284</td>
<td>Introduction to Sports Medicine and Athletic Training</td>
<td>3</td>
</tr>
</tbody>
</table>

plus at least three units from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUTRI 115</td>
<td>Nutrition and Health: Personal Applications</td>
<td>3</td>
</tr>
<tr>
<td>NUTRI 120</td>
<td>Sports Nutrition: Fueling the Athlete</td>
<td>3</td>
</tr>
<tr>
<td>NUTRI 160</td>
<td>Nutrition: Science and Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

Emphasis requirements: all students will complete the core courses above and also select an area of emphasis below.

Personal training emphasis

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 124</td>
<td>Weight Training</td>
<td>1</td>
</tr>
<tr>
<td>PETHE 291</td>
<td>Professional Aspects of Person Training and Fitness Instruction</td>
<td>3</td>
</tr>
</tbody>
</table>

Group exercise emphasis

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PETHE 293</td>
<td>Professional Aspects of Group Exercise Instruction</td>
<td>2</td>
</tr>
</tbody>
</table>

plus 2 units from a minimum of two courses from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 107</td>
<td>Stretch and Yoga for Sports</td>
<td>0.5-2</td>
</tr>
<tr>
<td>PE 108</td>
<td>Beginning Hatha Yoga</td>
<td>0.5-2</td>
</tr>
<tr>
<td>PE 116</td>
<td>Step Aerobics</td>
<td>0.5-2</td>
</tr>
<tr>
<td>PE 121</td>
<td>Aerobics</td>
<td>0.5-2</td>
</tr>
<tr>
<td>PE 126</td>
<td>Super Circuit</td>
<td>0.5-2</td>
</tr>
<tr>
<td>PE 127</td>
<td>Hips, Thighs and Abs</td>
<td>0.5-2</td>
</tr>
<tr>
<td>PE 128</td>
<td>Cardio Kickboxing</td>
<td>0.5-2</td>
</tr>
<tr>
<td>PE 129</td>
<td>Cycling/Spinning Training</td>
<td>0.5-2</td>
</tr>
</tbody>
</table>

Total units required 20

New certificates of completion

Certificate of completion - Broadcast communication arts - Basic digital field production

This program prepares students for entry level in one of four specialty areas of broadcasting industry; studio production, field production, post production and writing.

To earn a certificate of completion, students must complete each of the required courses with a “C” grade or better. Required courses can only be completed by attending a combination of day and evening classes.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTDM 100</td>
<td>Introduction to Multimedia Workstations</td>
<td>1</td>
</tr>
<tr>
<td>ARTDM 110</td>
<td>Digital Imaging Process and Technique I</td>
<td>1.5</td>
</tr>
<tr>
<td>ARTDM 171</td>
<td>Web Design</td>
<td>3</td>
</tr>
<tr>
<td>BUSMG 121</td>
<td>Practices and Concepts of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>COMSC 095</td>
<td>WWW Publishing with HTML</td>
<td>1</td>
</tr>
<tr>
<td>COMSC 096</td>
<td>Advanced WWW Publishing</td>
<td>1</td>
</tr>
<tr>
<td>COMSC 100</td>
<td>Introduction to Computers and Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>COOP 170</td>
<td>Occupational Work Experience</td>
<td>1-4</td>
</tr>
<tr>
<td>COOP 170A</td>
<td>Internship in Occupational Work Experience Education</td>
<td>1-4</td>
</tr>
</tbody>
</table>

Total units required 19
### Certificate of completion - Broadcast communication arts - Basic studio production

The broadcast communication arts program prepares students for entry level in one of four specialty areas of broadcasting industry: studio production, field production, post production and writing.

To earn a certificate of completion, students must complete each of the required courses with a “C” grade or better. Required courses can only be completed by attending a combination of day and evening classes.

<table>
<thead>
<tr>
<th>required courses</th>
<th>units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCA 125 Introduction to Digital Film Style Production</td>
<td>3</td>
</tr>
<tr>
<td>BCA 126 Intermediate Digital Field Production</td>
<td>3</td>
</tr>
<tr>
<td>BCA 165 Digital Video Editing</td>
<td>3</td>
</tr>
<tr>
<td>BCA 140 History of Broadcasting</td>
<td>3</td>
</tr>
</tbody>
</table>

**plus a minimum of 3 units from:**

| ARTDM 110 Digital Imaging Process and Technique I | 1.5 |
| ARTDM 111 Digital Imaging Process and Technique II | 1.5 |
| ARTDM 195 Applied Production for Digital Media | 3 |
| BCA 150 Music Video Production | 3 |
| BCA 190 Topics in Broadcast Communication Arts | 0.3-4 |
| BCA 260 American Ethnic Images in Television | 3 |
| BCA 298 Independent Study | 0.5-3 |
| COOP 170 Occupational Work Experience Education | 1-4 |

**Total units required** 15

### Certificate of completion - Art digital media - foundation

Art digital media is a set of technologies and techniques that can be used to enhance the presentation of information. Art digital media uses computers to create productions that bring together text, sounds, animation, graphic art and video to educate, inform and entertain. Classes are designed to serve both working professionals who wish to upgrade their skills and students who wish to enter the field.

To earn a certificate of completion, students must complete each course used to meet a certificate requirement with a “C” grade or better. Required courses are available in the evening and during the day.

<table>
<thead>
<tr>
<th>required courses</th>
<th>units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 105 Introduction to Drawing, Color, and Two Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ARTDM 110 Digital Imaging Process and Technique I</td>
<td>1.5</td>
</tr>
<tr>
<td>ARTDM 111 Digital Imaging Process and Technique II</td>
<td>1.5</td>
</tr>
<tr>
<td>ARTDM 130 Introduction to Digital Audio</td>
<td>1.5</td>
</tr>
<tr>
<td>ARTDM 149 Introduction to Digital Video</td>
<td>1.5</td>
</tr>
</tbody>
</table>

**plus at least 6 units from:**

| ARTDM 100 Introduction to Multimedia Workstations | 1 |
| ARTDM 112 Digital Imaging for the Artist | 3 |
| ARTDM 115 Digital Imaging Process and Technique III | 3 |
| ARTDM 117 Digital Illustration | 3 |
| ARTDM 120 Interactive Authoring for Multimedia | 3 |
| ARTDM 140 Motion Graphics for Digital Media | 3 |
| ARTDM 145 Intermediate Digital Video Production | 3 |
| ARTDM 160 3D Modeling and Animation I | 3 |
| ARTDM 161 3D Modeling and Animation II | 3 |
| ARTDM 165 Cartoon Drawing for Digital Animation | 3 |
| ARTDM 170 Multimedia for Web Delivery | 3 |
| ARTDM 171 Web Design | 3 |
| ARTDM 175 Flash Interactivity | 3 |
| ARTDM 214 Introduction to Graphic Design | 3 |
| COMSC 955 WWW Publishing with HTML | 1 |
| COMSC 996 Advanced WWW Publishing | 1 |
| MUSIC 172 Introduction to Electronic Music and MIDI | 3 |
| MUSIC 173 Advanced Electronic Music | 3 |
| MUSIC 174 Introduction to Pro Tools | 3 |

**Total units required** 15

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**Certification of completion - revisions to requirements**

(Note: changes are underlined, deletions are indicated by strike-through)
IV. Changes in courses

Courses - added

**ARTDM-136 Beginning Digital Photography**
3 units SC
- May be repeated once
- 36 hours lecture/72 hours laboratory per term
- Recommended: ART 160 or equivalent
- Note: students must have digital camera with manual functions.

This introductory course focuses on the required skills to create effective digital photography using digital cameras. Students will be introduced to color correction, retouching, and compositing techniques, as well as digital capture, scanning and printing techniques with a specific focus on digital photographic practice in fine art. CSU

**COMSC-098 PERL/CGI**
1 unit CR/NC
- May be repeated once
- Non-degree applicable
- 18 hours lecture/9 hours laboratory per term
- Recommended: COMSC 095 or equivalent

This course will help you become fluent in PERL, fully versed in the language syntax, semantics and elements of style. We will create web pages and link them to CGI scripts written in PERL. These scripts will be used to generate dynamic web pages, and access files and data bases on web servers. We will also install Apache server software and Active State PERL interpreter.

**PE-109 Intermediate/Advanced Hatha Yoga**
.5-2 units SC
- May be repeated once
- Variable hours

This is an activity course that emphasizes intense stretching, balancing, and building of muscular strength through yoga practice. A series of poses and breathing techniques will be practiced in order to create a more strenuous yoga experience. Proper posture, relaxation and meditation techniques, as well as principles of healthy living, will be demonstrated and discussed throughout the course. The yoga experience is non-competitive. CSU, UC (credit limits may apply to UC see counselor)

**PEDAN-163 Intermediate Salsa and Latin Dance**
.5-2 units SC
- May be repeated once
- Recommended: PEDAN 162 or equivalent

Intermediate level Salsa and Latin dance for students interested in improving their skills in these dances and partnering techniques. Increasingly complex techniques, patterns, terminology, rhythms, music history and development of a variety of Latin dances will be explored. CSU

**PLUMB-111 Trade Mathematics**
1.5-2.5 units LR
- Variable hours
- Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. Course enrollment is limited to those who have been accepted by the union local responsible for the section. This class is the same as STMFT-111.

The approaches to mathematical problem solving used in pipe fitting and metric conversion. CSU

**PLUMB-112 Water Supply Systems**
1.5-2.5 units LR
- Variable hours
- Note: This program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. Course enrollment is limited to those who have been accepted by the union local responsible for the section.
- Formerly PLUMB 151

The principles and methods of water distribution and treatment. CSU

**PLUMB-113 Sewage Disposal**
1.5-2.5 units LR
- Variable hours
- Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. Course enrollment is limited to those who have been accepted by the union local responsible for the section.
- Formerly PLUMB 152

The principles and methods of sewage disposal for residential and commercial buildings. CSU

**PLUMB-114 Plumbing System Service and Repair**
1.5-2.5 units LR
- Variable hours
- Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. Course enrollment is limited to those who have been accepted by the union local responsible for the section.
- Formerly PLUMB 153

The planning and troubleshooting of plumbing systems and repairs. CSU

**PLUMB-115 Construction Management in Plumbing**
1.5-2.5 units LR
- Variable hours
- Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. Course enrollment is limited to those who have been accepted by the union local responsible for the section.
- Formerly PLUMB 154

An introduction to the administrative procedures, plans and specifications, scheduling, and other forms of communication in the construction field. CSU
PLUMB-116 Medical Gas Systems
1.5-2.5 units LR
• Variable hours
• Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. Course enrollment is limited to those who have been accepted by the union local responsible for the section.
• Formerly PLUMB 155
The requirements and standards of medical gas and vacuum system installation. CSU

PLUMB-117 Related Science in the Piping Trades
1.5-2.5 units LR
• Variable hours
• Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. Course enrollment is limited to those who have been accepted by the union local responsible for the section. This class is the same as STMFT-117.
The scientific and mechanical principles that are basic to the work of the piping industry. CSU

PLUMB-118 Beginning Drawing and Plan Reading for the Piping Trades
1.5-2.5 units LR
• Variable hours
• Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. Course enrollment is limited to those who have been accepted by the union local responsible for the section. This class is the same as STMFT-118.
The interpretation of drawings and sketches associated with piping installation. CSU

PLUMB-119 Advanced Drawing in the Piping Trades
1.5-2.5 units LR
• Variable hours
• Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. Course enrollment is limited to those who have been accepted by the union local responsible for the section. This class is the same as STMFT-119.
Interpret, coordinate and make drawings and sketches associated with piping installation. CSU

PLUMB-120 Plumbing Tool Workshop I
1.5-2.5 units LR
• Variable hours
• Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. Course enrollment is limited to those who have been accepted by the union local responsible for the section.
• Formerly PLUMB 250
The practical and theoretical aspects of plumbing tool processes. Students will learn the safe and proper use of the commonly used trade tools. CSU

PLUMB-121 Plumbing Tool Workshop II
1.5-2.5 units LR
• Variable hours
• Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. Course enrollment is limited to those who have been accepted by the union local responsible for the section.
• Formerly PLUMB 251
The practical and theoretical aspects of plumbing tool processes. Students will learn the proper use and safety of advanced trade tools. CSU

PLUMB-122 Plumbing Code I
1.5-2.5 units LR
• Variable hours
• Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. Course enrollment is limited to those who have been accepted by the union local responsible for the section.
• Formerly PLUMB 252
An introduction to the plumbing ordinances, articles 100-900, which provide minimum requirements and standards for public safety. CSU

PLUMB-123 Plumbing Code II
1.5-2.5 units LR
• Variable hours
• Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. Course enrollment is limited to those who have been accepted by the union local responsible for the section.
• Formerly PLUMB 253
An introduction to the plumbing ordinances, articles 901-1622, which provide minimum requirements and standards for public safety. CSU

PLUMB-124 Welding for Plumbers
1.5-2.5 units LR
• Variable hours
• Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. Course enrollment is limited to those who have been accepted by the union local responsible for the section.
• Formerly PLUMB 254
The techniques and methods of the welding process for plumbers. CSU

PLUMB-125 Electricity for Plumbing
1.5-2.5 units LR
• Variable hours
• Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. Course enrollment is limited to those who have been accepted by the union local responsible for the section.
• Formerly PLUMB 270
The specialized knowledge and techniques required to make electrical systems operate and function effectively. CSU
PLUMB-126 Gas Installation in Plumbing
1.5-2.5 units LR
- Variable hours
- Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. Course enrollment is limited to those who have been accepted by the union local responsible for the section.
Principles and installation methods of gas piping systems. CSU

PLUMB-127 Backflow Prevention
1.5-2.5 units LR
- Variable hours
- Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. Course enrollment is limited to those who have been accepted by the union local responsible for the section.
Instruction on the approved methods and appropriate devices by which backflow and cross-connection can be eliminated. CSU

PLUMB-128 Plumbing Fixtures
1.5-2.5 units LR
- Variable hours
- Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. Course enrollment is limited to those who have been accepted by the union local responsible for the section.
The modern techniques and practices of plumbing fixtures and appliances. CSU

PLUMB-129 Certification Preparation
1.5-2.5 units LR
- Variable hours
- Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. Course enrollment is limited to those who have been accepted by the union local responsible for the section.
Preparation and review of information required for obtaining state plumbing certification. CSU

STMFT-111 Trade Mathematics
1.5-2.5 units LR
- Variable hours
- Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. This class is the same as PLUMB 111.
- Formerly STMFT 152
The approaches to mathematical problem solving used in pipe fitting and metric conversion. CSU

STMFT-117 Related Science in the Piping Trades
1.5-2.5 units LR
- Variable hours
- Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. This class is the same as PLUMB 117.
- Formerly STMFT 153
The scientific and mechanical principles that are basic to the work of the piping industry. CSU

STMFT-118 Beginning Drawing and Plan Reading for the Piping Trades
1.5-2.5 units LR
- Variable hours
- Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. This class is the same as PLUMB 118.
- Formerly STMFT-54
The interpretation of drawings and sketches associated with piping installation. CSU

STMFT-119 Advanced Drawing in the Piping Trades
1.5-2.5 units LR
- Variable hours
- Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. This class is the same as PLUMB 119.
- Formerly STMFT 155
Interpret, coordinate and make drawings and sketches associated with piping installation. CSU

STMFT-110 OSHA-CPR
1.5-2.5 units LR
- Variable hours
- Note: this program is sponsored by the International Brotherhood of Steamfitters and Plumbers and is for apprenticeship only. This class is the same as PLUMB 110.
- Formerly STMFT 151
The regulations governed by OSHA 30, providing and recognizing safe work practices. Certification in Cardio-Pulmonary Resuscitation and First Aid. CSU
Courses - deleted

ART-112
ELTRN-101A
ELTRN-101B
MUSIC-159
MUSPF-147
PE-114
PE-187
PLUMB-151
PLUMB-152
PLUMB-153
PLUMB-154
PLUMB-155
PLUMB-250
PLUMB-251
PLUMB-252
PLUMB-253
PLUMB-254
PLUMB-270
STMFT-151
STMFT-152
STMFT-153
STMFT-154
STMFT-155

Courses changed
(Note: changes are underlined)

ART-163 Documentary Photography
3 units SC
- May be repeated three times
- 36 hours lecture/72 hours laboratory per term
- Recommended: ART 160 or equivalent; eligibility for ENGL 116/118 or equivalent
- Note: students supply cameras

Intermediate level course in which students participate in field trips, in-class lectures, demonstrations, critiques, and studio time in order to develop their own documentary photo essays. The main emphasis will be on documentary photography, its definition, historical precedents, and image making. This course is appropriate for students in art, journalism, and communication, CSU

ARTDM-112 Digital Imaging for the Artist
3 units SC
- May be repeated once
- 36 hours lecture/72 hours laboratory per term
- Recommended: ART 015 or equivalent; eligibility for ENGL 116/118 or equivalent
- Formerly ART 112

This is a course in digital imaging for the artist. This course is designed to develop a fine arts approach to computer-generated imaging. Students will utilize leading graphic arts software programs. An emphasis will be placed on the application and integration of color theory as well as design principles with digital imaging, CSU, UC

BUS-298 Independent Study
0.5-3 units SC
- May be repeated three times
- Variable hours
- Prerequisite: submission of acceptable educational contract to department and instruction office; topics must extend study beyond courses offered

An opportunity for students to pursue special interests under direction of the faculty.

BUSAC-283 Auditing
3 units SC
- 54 hours lecture/18 hours laboratory by arrangement per term
- Prerequisite: BUSAC 186 or equivalent
- Recommended: BUSAC 187 or equivalent

This is an intermediate level course on the role and responsibility of Certified Public Accountants in the audit of financial statements. Emphasis will be placed on verification of balance sheets and internal control of accounting systems and cycles. Topics include sampling techniques, auditing standards, professional ethics, legal liability, audit reports, and audit programs, CSU

BUSMG-191 Small Business Management
3 units SC
- 54 hours lecture per term
- Recommended: BUS 103 and BUS 109 or equivalent; eligibility for ENGL 122 or equivalent

An introductory course intended for students who want to start a new small business, or are already involved in the ongoing management of an existing small business. Small business owners differ from entrepreneurs in that they often keep their businesses small and do not emphasize rapid growth. A small business is independently owned and operated, and is typically not dominant in its field. This course will cover relevant functional areas such as marketing, finance and human resources. It will also cover topics unique to small businesses, including managing a family-owned business, becoming a franchisee, and applying for a Small Business Administration (SBA) loan. Students will get hands-on small business management experience by designing their own small businesses and putting together a business plan, CSU

BUSMK-255 Advertising
3 units SC
- 54 hours lecture per term
- Recommended: eligibility for ENGL 122 or equivalent

A study of the historical, social, ethical, economic, and regulatory aspects of advertising. The subject evaluates advertising, media, and creative strategies for traditional and electronic markets. Topics include effects of consumer behavior patterns, the client-agency relationship, and the development and evaluation of advertising campaigns, CSU

BUSMK-257 Applied Advertising and Promotion
3 units SC
- 54 hours lecture per term
- Recommended: BUSMK 255 or equivalent; eligibility for ENGL 122 or equivalent

This course uses advertising and promotional tools for planning and coordinating an integrated promotional campaign. Students will work in a group as an agency with one client to apply course materials to a client business. Groups identify the target audience, set the communications goals, develop the promotional strategies, and evaluate the results. Emphasis is placed upon the efficient use of the client’s resources to accomplish communication goals through an effective promotional program, CSU
**BUSBMK-298 Independent Study**
- 3-5 units SC
- May be repeated three times
- Variable hours
- Prerequisite: submission of acceptable educational contract to department and instruction office; topics must extend study beyond courses offered

An opportunity for students to pursue special interests under direction of the faculty.

**BUSIM-140 Database Records and Information Management**
- 3 units SC
- May be repeated once when software is changed or upgraded.
- 54 hours lecture/36 hours laboratory by arrangement per term
- Recommended: eligibility for ENGL 122 or equivalent; Keyboarding by touch

Beginning course in database records and information management. Course provides basic records management principles, applied to various records systems based on ARMA (Association of Records Managers and Administrators) International rules. Current database software will be used to introduce information management functions. CSU

**COMSC-096 Advanced WWW Publishing**
- 1 unit CR/NC
- May be repeated once
- Nondegree applicable
- 18 hours lecture/9 hours laboratory per term
- Recommended: COMSC 095 or equivalent

This is an advanced WWW Publishing course which builds on the skills learned in COMSC 095 and provides further hands-on development of WWW documents and web programming fundamentals.

**COMSC-100 Introduction to Computers and Information Systems**
- 3 units SC
- 54 hours lecture/18 hours laboratory per term
- Co-requisite: COMSC 100L
- Note: COMSC 100L must be taken as a co-requisite, or must have already been completed as a prerequisite. COMSC 100L is not UC transferable without COMSC 100.
- Students taking COMSC 100 and 100L at the same time, who drop or are dropped from COMSC 100L, will be dropped from COMSC 100.

A beginning course designed to acquaint the student with the general concepts and basic vocabulary of computers and information systems. Includes introduction to the organization and functions of basic components of computers, and information processing systems. Instruction in programming procedures and programming logic is provided. Appropriate for the student with a general interest in this area as well as for the student desiring to pursue further training in computer science or information systems. CAN BUS & CAN CSC12, CSU, UC (credit limits may apply to UC - see counselor)

**COMSC-100L Introduction to Computer Software**
- 1 unit SC
- 54 hours laboratory per term
- Note: not UC transferable without COMSC 100.

The student will learn to use the Microsoft Windows operating system and Microsoft Office, including the Excel spreadsheet program, the Access database program, the PowerPoint presentation program and the Word processing program. CSU, UC (credit limits may apply to UC - see counselor)

**COUNS-105 Orientation to College**
- 3 units CR/NC
- Variable hours
- Note: completion of English and math assessment seven days prior to this course will facilitate appropriate course selection.

An introduction to college which is designed to provide students with a concrete plan for succeeding in college. Topics include: identification of educational and career goals, strategic use of student services, academic assessment (effective course selection and scheduling), geographical orientation, counseling and advising.

**COUNS-106 Orientation to College for Student-Athletes**
- 3 units CR/NC
- Variable hours
- Note: completion of English and math assessment seven days prior to this course will facilitate appropriate course selection.

An introduction to college for student-athletes, designed to provide students with a concrete plan for enrolling and succeeding in college. Topics include: overview of the higher education system in California, identification of educational and career goals, strategic use of student services, academic assessment, effective course selection and scheduling, geographical orientation, counseling and advising. NCAA, COA (Commission on Athletics) and DVC regulations as well as campus services for student-athletes will be emphasized.

**COUNS-115 Resiliency and Student Success**
- 1 unit CR/NC
- 18 hours lecture per term
- Recommended: eligibility for ENGL 116/118 or equivalent

A course designed to help students identify “automatic thoughts” and to practice new critical thinking skills to become more resilient in dealing with problems and more successful in educational endeavors. Students will have the opportunity to gain new insight into their own thought processes while learning constructive ways to deal with anxiety and adversity. Students will also learn ways to improve relationships through more effective means of communication. CSU

**ELTRN-120 DC Circuits**
- 4 units LR
- 54 hours lecture/54 hours laboratory per term
- Formerly ELTRN 101A

Basic direct current (DC) theory covering Ohm’s Law, series circuits, parallel circuits, series-parallel circuits, basic residential wiring and ladder logic. Also includes related lab experience, including use of software to simulate electrical circuits. CSU

**ELTRN-121 AC Circuits**
- 4 units LR
- 54 hours lecture/54 hours laboratory per term
- Formerly ELTRN 101B
- Recommended: ELTRN 120

An in-depth study of alternating current (AC) circuits involving capacitive and inductive. Topics include RL, RC, RLC and resonant circuits. The course covers 3-phase circuits, computer-simulated circuits, and related laboratory experience. CSU
ENGL-253 Survey of Late English Literature
3 units  SC
• 54 hours lecture per term
• Prerequisite: ENGL 122 or equivalent
This course surveys British literature of the nineteenth and twentieth centuries. Students will read poems, fiction, drama and non-fiction from the Romantic, Victorian, modern and post-colonial periods. Attention will be focused on the development of literary forms and the relation between texts and broader historical and cultural themes and conditions. Topics include representations of class, gender, race, nature, and the self; critical questions such as the function of literature, the conventions of literary periods, canonicity, and issues of literary production. Students will also examine the aesthetic and/or cultural relationship between literature and one other art such as painting, music, or architecture. CAN ENGL 10, ENGL 252+253 = CAN ENGL SEQ B, CSU, UC

GEOG-125 Introduction to Geographic Information Systems (GIS)
• 3 units  SC
• 54 hours lecture/18 hours laboratory per term
• Recommended: COMSC 100L or equivalent
An introduction to Geographic Information Systems (GIS) as a tool for spatial analysis. The course will cover GIS concepts, techniques and methodologies. Laboratory activities will be used to reinforce lecture concepts. The course will prepare students for advanced university level courses in spatial analysis or for entry level positions in GIS related fields. CSU

GEOG-126 Advanced Geographic Information Systems
3 units  SC
• 54 hours lecture/18 hours laboratory per term
• Prerequisite: GEOG 125 or equivalent
Application of advanced analytical techniques of geographic information systems (GIS) to manipulate, analyze and predict spatial patterns. Students will work on individual projects to learn the issues involved in managing and representing spatial information. CSU

GEOG-160 Introduction to Remote Sensing
4 units  SC
• 54 hours lecture/54 hours laboratory per term
• Recommended: COMSC 100L or equivalent
This course introduces the basic principles of remote sensing techniques including aerial photographs, satellite images and radar imagery. It explains how these techniques are used for collecting data about the earth and how such data can be interpreted and mapped with the help of image processing software and geographic information systems. CSU

GEOG-162 Maps and Cartography
3 units  SC
• 36 hours lecture/54 hours laboratory per term
• Recommended: MATH 110 or equivalent
The course introduces basic principles of mapping and representation of spatial data using conventional and computerized cartographic techniques. Elements of map such as scale, distance, direction, and map projections as well as cartographic techniques of data analysis, processing, symbolization, and representation are examined in detail. This course is designed to develop a better understanding of maps and map-interpretation. CSU

HORT-170 Landscape Drafting
3 units  SC
• 54 hours lecture per term
• Recommended: HORT 110 or equivalent; eligibility for ENGL 122 or equivalent
A fundamental drafting course to acquaint the landscape design student with the tools, techniques and skills needed to develop aesthetically pleasing and functional plans and construction documents for a landscape project. CSU

HORT-174 Landscape Design
3 units  SC
• 54 hours lecture per term
• Recommended: HORT 170 or equivalent; eligibility for ENGL 122 or equivalent
This class will provide the landscape design student with the tools and techniques to prepare professional landscape plans and construction documents for a variety of landscape designs: industrial, commercial, public works and residential. The design process, design principles, design theory and presentation graphics will be introduced. This class will explore the techniques needed to move a design from site analysis to preliminary design to presentation and construction documents. CSU, UC

HSCI-124 Health and Wellness
3 units  SC
• 54 hours lecture per term
• Recommended: eligibility for ENGL 122 or equivalent
• Note: the nutrition, tobacco and substance abuse component of this course fulfill a portion of the state health education requirements for a teaching credential. For CPR training see HSCI 131.
An overview of all aspects of health and wellness, including physical, mental, spiritual, emotional, social dimensions. The course examines current scientific research on methods of improving total health. The course introduces students to the concepts and skills of locating, evaluating, synthesizing, and communicating information in various formats. CSU, UC (credit limits may apply to UC - see counselor)

L-104 Cataloging for Paraprofessionals
3 units  SC
• 54 hours lecture per term
• Recommended: eligibility for ENGL 122 or equivalent
An introductory course for library paraprofessionals on the basic theories, principles, concepts and procedures of bibliographic control, including descriptive cataloging, classification, subject analysis, physical processing, and bibliographic maintenance. Emphasis will be placed on print monographs. current Anglo-American Cataloguing Rules, MARC 21 format, Library of Congress and Dewey classification and LC Subject Heading. CSU

L-114 Developing Web Pages for Library Information
2 units  CR/NC
• 36 hours lecture per term
• Recommended: eligibility for ENGL 122 or equivalent
This course teaches students how to create, manage and maintain web pages. Emphasis is placed on organization, presentation, and maintenance of web pages and sites for library applications. CSU
Liberal Arts

DVC's major in liberal arts is not available to students entering summer 2004 or later. However, students who were admitted to DVC prior to summer 2004 may qualify to complete this degree. This opportunity will expire summer 2009. Certain limitations apply. Please meet with a counselor.

LS-100 Fundamental Library and Research Skills
.5 unit CR/NC
• 9 hours lecture per term
This short-term basic library and research skills course introduces students to information resources in an academic library, including online catalogs, electronic databases and the Internet. Emphasis will be placed on the organization, retrieval, and evaluation of information. The research skills learned are intended to be useful in college course work.

LS-130 Internet and Online Research
1 unit CR/NC
• 18 hours lecture per term
• Recommended: eligibility for ENGL 122 or equivalent
An introduction to using the Internet and other online resources to locate and retrieve information for research and writing. Through lecture, demonstrations, and hands-on activities, a range of Internet services will be introduced including search and navigation tools on the open and closed web, specialized collections, Wikis, Blogs and subscription journal databases. Evaluating information and choosing appropriate resources are practiced throughout the course. CSU

NUTRI-120 Sports Nutrition: Fueling the Athlete
3 units SC
• 54 hours lecture per term
• Recommended: eligibility for ENGL 122 or equivalent
This course includes the integration of principles of nutrition and physical exercise in order to optimize physical fitness and athletic performance. Topics will include nutritional needs of the athlete, diet planning to optimize physical performance, diet analysis, energy systems and metabolism, efficiency of nutritional ergogenics, dietary supplements, sports drinks, the role of proteins, carbohydrates, fats, vitamins, minerals and water in physical performance, body composition, weight gain, weight loss and weight maintenance, eating disorders, and the specific nutritional needs for different types of athletes and sports events. The course introduces students to the concepts and skills of locating, evaluating, synthesizing, and communicating information in various formats. CSU

PE-108 Beginning Hatha Yoga
.5-2 units SC
• May be repeated once
• Variable hours
• Formerly PE 114
This course explores the principles of Hatha Yoga to achieve lifetime fitness. It covers yoga postures (asanas) designed to strengthen and tone your body. Breathing exercises, relaxation and meditation techniques will be demonstrated throughout the course. CSU, UC (credit limits may apply to UC - see counselor)

PEDAN-162 Beginning Salsa and Latin Dance
.5-2 units SC
• May be repeated three times
• Variable hours
This dance technique class will introduce the student to the Latin dances, including Salsa. The techniques, terminology, steps, patterns, rhythms, music, history, and development of a variety of Latin dances will be explored. This is a social dance class but a partner is not required. CSU, UC (credit limits may apply to UC - see counselor)

PETHE-187 Analysis of the Multiple Aspects of Modern Day Football
.5-2 units SC
• May be repeated three times
• Variable hours
• Recommended: tryout auditions or equivalent
• Formerly PE 187
Review and analyze offensive and defensive schemes of daily practice video and opponent game film. Implement and install weekly game plans on offense, defense, and special teams (kicking game). CSU

PETHE-210 Introduction to Kinesiology
3 units SC
• 54 hours lecture per term
• Recommended: eligibility for ENGL 122 or equivalent
This is an introductory course that surveys various sub disciplines related to the study of human movement. Students will examine the areas of history, sociology, biomechanics, physiology, and psychology as they relate to the sport and exercise environment. In addition, students will explore three career pathways involving the study of human movement: teaching, research, and professional practice. The course introduces students to the concepts and skills of locating, evaluating, synthesizing, and communicating information in various formats. CSU, UC (credit limits may apply to UC - see counselor)

SOCIO-124 Gender, Culture and Society
3 units SC
• 54 hours lecture per term
• Recommended: eligibility for ENGL 122 or equivalent
A multidimensional examination of the socialization of sex roles in United States society and other cultures, including the mechanisms by which gender roles develop and the social consequences for society. The course examines the social and cultural processes and institutional arrangements that give meaning to being a woman and a man in gendered society. CSU, UC