

Fresno City College

2012-2014

Catalog Addendum

April 2013

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TRANSFER REQUIREMENTS

Changes to Pages 36-50

Course Identification Numbering Systems (C-ID)

The Course Identification Numbering Systems (C-ID) is a statewide numbering system independent from the course numbers assigned by local California colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Thus, if a schedule of classes or catalog lists a course bearing a C-ID number, for example COMM 110, students at that college can be assured that it will be accepted in lieu of a course bearing the C-ID COMM 110 designation at another community college. In other words, the C-ID designation can be used to identify comparable courses at different community colleges. However, students should always go to www.assist.org to confirm how each college's course will be accepted at a particular four-year college or university for transfer credit.

The C-ID numbering system is useful for students attending more than one community college and is applied to many of the transferable courses students need as preparation for transfer. Because these course requirements may change and because courses may change and because courses may be modified and qualified for or deleted from the C-ID database, students should always check with a counselor to determine how C-ID designated courses fit into their educational plans for transfer.

Students may consult with the ASSIS database at www.assist.org for specific information on C-ID course designations. Counselors can always help students interpret or explain this information.

| C-ID Number | Fresno City College Course |
|--------------------|---|
| *ACCT 110 | Accounting 4A or 4AH, Financial Accounting |
| *ACCT 120 | Accounting 4B or 4BH, Managerial Accounting |
| AJ 110 | Criminology 1, Introduction to Criminology |
| AJ 124 | Criminology 3, Legal Aspects of Evidence |
| AJ 160 | Criminology 5, Community Relations |
| AJ 200 | Criminology 20, Introduction to Corrections |
| AJ 220 | Criminology 11, Juvenile Delinquency |
| CDEV 100 | Child Development 39, Child Growth and Development |
| CDEV 110 | Child Development 30, Child, Family and Community |
| CHEM 110 | Chemistry 1A, General Chemistry |
| CHEM 120S | Chemistry 1B + Chemistry 1A, General Chemistry and Qualitative Analysis and General Chemistry |
| COMM 110 | Communication 1, Introduction to Public Speaking |
| COMM 120 | Communication 25, Argumentation |
| COMM 130 | Communication 2, Interpersonal Communication |
| COMM 140 | Communication 8, group Communication |
| COMM 160B | Communication 26, Intercollegiate Forensics Laboratory |
| COMP 152 | Computer Science 26, Discrete Mathematics for Computer Science |
| ENGL 105 | English 3 or English 3H, Critical Reading & Writing |
| ECE 120 | Child Development 1, Principles and Practices of Teaching Young Children |
| ECE 130 | Child Development 3, Introduction to Curriculum |
| ECE 200 | Child Development 20, Observation and Assessment |
| ECE 210 | Child Development 37A, Early Childhood Practicum |
| ECE 220 | Child Development 6, Health, Safety and Nutrition in Early Childhood Education |
| ECE 230 | Child Development 15, Diversity and Culture in Early Care and Education Programs |
| GEOL 110 | Geology 2, Historical Geology |
| GEOL 200 | Geology 4, Geology of California |
| JOUR 100 | Journalism 1, Introduction to Mass Communication |
| JOUR 110 | Journalism 3, Newswriting |
| *JOUR 120 | Journalism 14, Multimedia Reporting |
| JOUR 130 | Journalism 4, Writing for the College Newspaper |
| JOUR 130 | Journalism 11A, 11B, 11C, Media Writing Practicum |
| *JOUR 130 | Journalism 11D, Editorial Leadership |
| JOUR 131 | Journalism 11C, Advanced Media Writing Practicum |
| JOUR 210 | Journalism 13, Advanced Reporting and Writing |
| MATH 210 | Mathematics 5A, Mathematical Analysis I |
| MATH 900S | Mathematics 5A and 5B, Mathematical Analysis I and Mathematical Analysis II |

| | |
|-----------|---|
| PHIL 100 | Philosophy 1A or 1AH, Theories of Knowledge and Reality |
| PHIL 120 | Philosophy 1C, Ethics |
| PHIL 210 | Philosophy 6, Symbolic Logic |
| PHYS 100S | Physics 2A and 2B, General Physics 1 and General Physics 2 |
| PHYS 105 | Physics 2A, General Physics 1 |
| PHYS 110 | Physics 2B, General Physics 2 |
| PHYS 205 | Physics 4A, Physics for Scientists and Engineers |
| PSY 110 | Psychology 2 or 2H, General Psychology |
| PSY 120 | Psychology 16, Abnormal Psychology |
| PSY 130 | Psychology 25, Human Sexuality |
| PSY 170 | Psychology 5, Social Psychology |
| PSY 180 | Psychology 38, Lifespan Development |
| PSY 200 | Psychology 45, Introduction to Research Methods in Psychology |
| *SPAN 100 | Spanish 1, Beginning Spanish |
| SOCI 110 | Sociology 1A or 1AH, Introduction to Sociology |
| SOCI 115 | Sociology 1B, Global Social Problems |
| SOCI 130 | Sociology 32, Introduction to Marriage and Family |
| SOCI 150 | Sociology 2, American Minority Groups |
| THTR 111 | Theatre Arts 30, Theatre Appreciation |
| THTR 112 | Theatre Arts 30, Theatre Appreciation |
| THTR 113 | Theatre Arts 31, Theatre History and Dramatic Literature I |
| THTR 151 | Theatre Arts 41, Beginning Acting |
| THTR 152 | Theatre Arts 43, Intermediate Acting |
| THTR 171 | Theatre Arts 25, Stagecraft |
| THTR 173 | Theatre Arts 27B, Introduction to Lighting Design |
| THTR 174 | Theatre Arts 36, Costume Design |
| THTR 175 | Theatre Arts 28, Introduction to Stage Makeup |
| THTR 191 | Theatre Arts 40, Performance Practicum |
| THTR 192 | Theatre Arts 23, Technical Theatre Practicum |

*Effective Fall 2013.

Fresno City College CSU General Education – Breadth 2012-2014

Change: new

Area C2, Humanities

effective Fall 2012

Change: revised

Area A3, Critical Thinking

Philosophy 4 to Philosophy 2

effective Fall 2013

Area D2, Economics

Economics 1A to Economics 50

effective Fall 2013

Economics 1AH to Economics 50H

effective Fall 2013

Economics 1B to Economics 40

effective Fall 2013

Economics 1BH to Economics 40H

effective Fall 2013

Change: deleted

Area C1, Arts

African-American Studies 49

effective Fall 2013

Area C2, Humanities

African-American Studies 21, 22

effective Fall 2013

Humanities 7/7H

effective Fall 2013

Russian 1, 2, 3, 4

effective Fall 2013

Swahili 1, 2

effective Fall 2013

California State University Transfer Course List (CSU)

Change: new

Accounting 54A

effective Spring 2013

Accounting 61

effective Fall 2013

Art 36A

effective Fall 2013

Art 38A

effective Fall 2013

| | |
|------------------------------------|-----------------------|
| Chemistry 18L | effective Fall 2013 |
| Chemistry 20 | effective Fall 2013 |
| Computer Aided Manufacturing 15 | effective Fall 2013 |
| Computer Aided Manufacturing 25 | effective Fall 2013 |
| Computer Aided Manufacturing 26 | effective Fall 2013 |
| Computer Information Technology 69 | effective Fall 2013 |
| Dance 13A | effective Fall 2013 |
| Dance 13B | effective Fall 2013 |
| Geology 2L | effective Fall 2013 |
| History 12H | effective Fall 2013 |
| Journalism 11A | effective Spring 2013 |
| Journalism 11B | effective Spring 2013 |
| Journalism 11C | effective Spring 2013 |
| Journalism 11D | effective Fall 2013 |
| Journalism 12 | effective Spring 2013 |
| Journalism 13 | effective Fall 2013 |
| Journalism 14 | effective Fall 2013 |
| Music 39A | effective Fall 2013 |
| Music 39B | effective Fall 2013 |
| Music 39C | effective Fall 2013 |
| Music 39D | effective Fall 2013 |
| Music 47A | effective Fall 2013 |
| Music 47B | effective Fall 2013 |
| Music 47C | effective Fall 2013 |
| Music 47D | effective Fall 2013 |
| Music 54 | effective Fall 2013 |
| Music 55 | effective Fall 2013 |
| Physical Education 45 | effective Spring 2013 |
| Political Science 3 | effective Fall 2013 |
| Theatre Arts 29B | effective Fall 2013 |

Change: number

| | |
|---|-----------------------|
| Economics 1A to Economics 50 | effective Fall 2013 |
| Economics 1AH to Economics 50H | effective Fall 2013 |
| Economics 1B to Economics 40 | effective Fall 2013 |
| Economics 1BH to Economics 40H | effective Fall 2013 |
| Philosophy to Philosophy 2 | effective Fall 2013 |
| Radiologic Technology 3A to Radiologic Technology 1D | effective Spring 2013 |
| Radiologic Technology 3B to Radiologic Technology 3 | effective Spring 2013 |

Change: delete

| | |
|---|-----------------------|
| Accounting 58 | effective Fall 2013 |
| Accounting 59 | effective Fall 2013 |
| African-American Studies 21 | effective Fall 2013 |
| African-American Studies 22 | effective Fall 2013 |
| African-American Studies 49 | effective Fall 2013 |
| Automotive Collision Repair Technology 51 | effective Spring 2013 |
| Automotive Collision Repair Technology 53 | effective Spring 2013 |
| Automotive Collision Repair Technology 55 | effective Spring 2013 |
| Business & Technology 7 | effective Fall 2013 |
| Business & Technology 8 | effective Fall 2013 |
| Computer Aided Drafting and Design 40 | effective Fall 2013 |
| Computer Aided Manufacturing 1A | effective Fall 2013 |
| Computer Aided Manufacturing 1B | effective Fall 2013 |
| Computer Science 20 | effective Fall 2013 |
| Computer Science 30 | effective Fall 2013 |
| Dance 13 | effective Fall 2013 |
| Educational Aide 1 | effective Spring 2013 |
| Fashion and Textiles Studies 24 | effective Spring 2013 |
| Fashion and Textiles Studies 25 | effective Spring 2013 |

| | |
|---------------------------------|------------------------------|
| Fashion and Textiles Studies 26 | <i>effective Spring 2013</i> |
| Fashion and Textiles Studies 30 | <i>effective Spring 2013</i> |
| Fashion Merchandising 10 | <i>effective Fall 2013</i> |
| Fashion Merchandising 14 | <i>effective Fall 2013</i> |
| Fashion Merchandising 21 | <i>effective Fall 2013</i> |
| Humanities 7 | <i>effective Fall 2013</i> |
| Humanities 7H | <i>effective Fall 2013</i> |
| Photography 7 | <i>effective Fall 2013</i> |
| Radiologic Technology 6 | <i>effective Spring 2013</i> |
| Russian 1 | <i>effective Fall 2013</i> |
| Russian 2 | <i>effective Fall 2013</i> |
| Russian 3 | <i>effective Fall 2013</i> |
| Russian 4 | <i>effective Fall 2013</i> |
| Spanish 10 | <i>effective Fall 2013</i> |
| Spanish 11 | <i>effective Fall 2013</i> |
| Spanish 12 | <i>effective Fall 2013</i> |
| Swahili 1 | <i>effective Fall 2013</i> |
| Swahili 2 | <i>effective Fall 2013</i> |

University of California Transfer Course List (UC)

Change: New

| | |
|------------------|----------------------------|
| Humanities 42 | <i>effective Fall 2012</i> |
| Theatre Arts 23 | <i>effective Fall 2012</i> |
| Theatre Arts 29A | <i>effective Fall 2012</i> |

Change: revised

| | |
|--|----------------------------|
| Economics 1A to <i>Economics 50</i> | <i>effective Fall 2013</i> |
| Economics 1AH to <i>Economics 50H</i> | <i>effective Fall 2013</i> |
| Economics 1B to <i>Economics 40</i> | <i>effective Fall 2013</i> |
| Economics 1BH to <i>Economics 40H</i> | <i>effective Fall 2013</i> |
| Philosophy 4 to <i>Philosophy 2</i> | <i>effective Fall 2013</i> |

Change: deleted

| | |
|-----------------------------|----------------------------|
| African-American Studies 21 | <i>effective Fall 2013</i> |
| African-American Studies 22 | <i>effective Fall 2013</i> |
| African-American Studies 49 | <i>effective Fall 2013</i> |
| Art 27 | <i>correction</i> |
| Computer Science 20 | <i>effective Fall 2013</i> |
| Dance 13 | <i>effective Fall 2013</i> |
| Russian 1 | <i>effective Fall 2013</i> |
| Russian 2 | <i>effective Fall 2013</i> |
| Russian 3 | <i>effective Fall 2013</i> |
| Russian 4 | <i>effective Fall 2013</i> |
| Swahili 1 | <i>effective Fall 2013</i> |
| Swahili 2 | <i>effective Fall 2013</i> |

ASSOCIATE DEGREE AND CERTIFICATE PROGRAMS

Changes to Pages 97-189

ACCOUNTING

ACCOUNTING – MAJOR #2010

revised program, Spring 2013

The AS Degree in Accounting (Major 2010) qualifies the student for entry-level accounting positions in business, government, industry, and financial institutions. Students interested in pursuing a BS Degree in Accounting should consult the catalog of the institution to which they wish to transfer for the specific requirements of that BS Degree program.

Associate in Science

Student Learning Outcomes:

1. Operate and maintain an integrated accounting system in both a manual and a computerized environment.
2. Develop and analyze accounting information to meet the needs of both external and internal users.
3. Demonstrate proficiency in business theories, functions, and skills in relation to accounting.

Suggested Course Sequence

FIRST YEAR

| First Semester | | Units |
|-----------------------|---|--------------|
| ACCTG 4A/4AH | Financial Accounting, or Honors Financial Accounting..... | 4 |
| BA 10/10H | Introduction to Business, or Honors Introduction to Business | 3 |
| BT 123 | Ten-Key Skillbuilding..... | .5 |
| CIT 15 | Computer Concepts | 3 |
| | | Total 10.5 |

| Second Semester | | Units |
|------------------------|---|--------------|
| ACCTG 4B/4BH | Managerial Accounting, or Honors Managerial Accounting | 4 |
| *ACCTG 53 | Tax Accounting – Manual and Computerized, or | |
| *ACCTG 57 | Governmental Accounting | 3 |
| CIT 23 | Spreadsheet Fundamentals | 2 |
| | | Total 10 |

SECOND YEAR

| First Semester | | Units |
|-----------------------|-------------------------------|--------------|
| *ACCTG 32A | Computerized Accounting | 1 |
| ACCTG 51 | Intermediate Accounting..... | 3 |
| *ACCTG 56 | Payroll Accounting..... | 2 |
| ACCTG 70 | QuickBooks Fundamentals, or | |
| ACCTG 73 | MAS90 Fundamentals..... | 2 |
| | | Total 8 |

| Second Semester | | Units |
|------------------------|---|--------------|
| ACCTG 19 | Work Experience (Cooperative), Occupational | 1 |
| *ACCTG 52 | Cost Accounting | 3 |
| ACCTG 54A | Principles of Auditing, or | |
| ACCTG 58 | Accounting Practicum I, and | |
| ACCTG 59 | Accounting Practicum II..... | 2-3 |
| | | Total 6-7 |

Recommended Electives: BA 5, 18, 30, 33; BT 4, 20, 21; CIT 17, 20, 24, 26; ECON 1A/1AH, 1B/1BH

Note: Requires additional general education units for associate degree.

*The advanced accounting course noted above may also be used to satisfy the 24 unit eligibility requirement that must be met before a person can take the CPA Exam. Many students take these courses to satisfy that CPA exam requirement as well as to satisfy the AS Degree requirement.

ACCOUNTING – MAJOR #2010

revised program, Fall 2013

The AS Degree in Accounting qualifies the student for entry-level accounting positions in business, government, industry, and financial institutions. Students interested in pursuing a BS Degree in Accounting should consult the catalog of the institution to which they wish to transfer for the specific requirements of that program.

Associate in Science

Student Learning Outcomes:

1. Operate and maintain an integrated accounting system in both a manual and a computerized environment.
2. Develop and analyze accounting information to meet the needs of both external and internal users.
3. Demonstrate proficiency in accounting theory, functions, and skills.

| Required Courses | Units |
|---|-------|
| *ACCTG 4A/4AH Financial Accounting, or Honors Financial Accounting..... | 4 |
| *ACCTG 4B/4BH Managerial Accounting, or Honors Managerial Accounting | 4 |
| ACCTG 19 Work Experience (Cooperative), Occupational | 1 |
| ACCTG 32A Computerized Accounting | 1 |
| ACCTG 34 Accounting Spreadsheets, or CIT 23 Spreadsheet Fundamentals | 2 |
| *ACCTG 51 Intermediate Accounting..... | 3 |
| *ACCTG 52 Cost Accounting | 3 |
| ACCTG 70 QuickBooks Fundamentals, or ACCTG 73 Sage 100/MAS 90 Fundamentals | 2 |
| BA 10/10H Introduction to Business, or Honors Introduction to Business | 3 |
| BT 123 Ten-Key Skillbuilding..... | 0.5 |
| CIT 15 Computer Concepts | 3 |

| Choose 3 of the following courses: | Units |
|--|-------|
| *ACCTG 53 Tax Accounting | 3 |
| *ACCTG 54A Principles of Auditing..... | 3 |
| *ACCTG 56 Payroll Accounting..... | 3 |
| *ACCTG 57 Governmental Accounting..... | 3 |
| *ACCTG 61 Forensic Accounting..... | 3 |

*The advanced accounting courses noted above may also be used to satisfy the unit eligibility requirement that must be met before a person can take the CPA Exam. Many students take these courses to satisfy that CPA exam requirements as well as to satisfy the AS Degree requirements.

ACCOUNTING – MAJOR #2010

revised program, Spring 2013

The Accounting Certificate of Achievement (Major 2010) qualifies the student for entry-level accounting positions in business, government, industry, and financial institutions.

Certificate of Achievement

Student Learning Outcomes:

1. Operate and maintain an integrated accounting system in both a manual and a computerized environment.
2. Develop and analyze accounting information to meet the needs of both external and internal users.
3. Demonstrate proficiency in business theories, functions, and skills in relation to accounting.

Suggested Course Sequence

FIRST YEAR

| First Semester | Units |
|---|-------|
| ACCTG 4A/4AH Financial Accounting, or Honors Financial Accounting..... | 4 |
| BA 10/10H Introduction to Business, or Honors Introduction to Business | 3 |
| BT 123 Ten-Key Skillbuilding..... | 5 |
| CIT 15 Computer Concepts | 3 |
| Total 10.5 | |

Second Semester

| Second Semester | Units |
|---|-------|
| ACCTG 4B/4BH Managerial Accounting, or Honors Managerial Accounting | 4 |
| *ACCTG 53 Tax Accounting – Manual and Computerized, or *ACCTG 57 Governmental Accounting | 3 |
| CIT 23 Spreadsheet Fundamentals | 2 |
| Total 10 | |

SECOND YEAR

| First Semester | Units |
|--|-------|
| *ACCTG 32A Computerized Accounting | 1 |
| ACCTG 51 Intermediate Accounting..... | 3 |
| *ACCTG 56 Payroll Accounting..... | 2 |
| ACCTG 70 QuickBooks Fundamentals, or ACCTG 73 MAS90 Fundamentals..... | 2 |

Total 8

| Second Semester | | Units |
|------------------------|---|--------------|
| ACCTG 19 | Work Experience (Cooperative), Occupational | 1 |
| *ACCTG 52 | Cost Accounting | 3 |
| ACCTG 54A | Principles of Auditing, <i>or</i> | |
| ACCTG 58 | Accounting Practicum I, <i>and</i> | |
| ACCTG 59 | Accounting Practicum II..... | 2-3 |
| | | Total 6-7 |

Recommended Electives: BA 5, 18, 30, 33; BT 4, 20, 21; CIT 17, 20, 24, 26; ECON 1A/1AH, 1B/1BH

*The advanced accounting course noted above may also be used to satisfy the 24 unit eligibility requirement that must be met before a person can take the CPA Exam. Many students take these courses to satisfy that CPA exam requirement as well as to satisfy the AS Degree requirement.

ACCOUNTING – MAJOR #2010

revised program, Fall 2013

The Accounting Certificate of Achievement qualifies the student for entry-level accounting positions in business, government, industry, and financial institutions.

Certificate of Achievement

Student Learning Outcomes:

1. Operate and maintain an integrated accounting system in both a manual and a computerized environment.
2. Develop and analyze accounting information to meet the needs of both external and internal users.
3. Demonstrate proficiency in accounting theory, functions, and skills.

| Required Courses | | Units |
|-------------------------|--|--------------|
| *ACCTG 4A/4AH | Financial Accounting, <i>or</i> Honors Financial Accounting..... | 4 |
| *ACCTG 4B/4BH | Managerial Accounting, <i>or</i> Honors Managerial Accounting | 4 |
| ACCTG 19 | Work Experience (Cooperative), Occupational | 1 |
| ACCTG 32A | Computerized Accounting | 1 |
| ACCTG 34 | Accounting Spreadsheets, <i>or</i> | |
| CIT 23 | Spreadsheet Fundamentals | 2 |
| *ACCTG 51 | Intermediate Accounting..... | 3 |
| *ACCTG 52 | Cost Accounting | 3 |
| ACCTG 70 | QuickBooks Fundamentals, <i>or</i> | |
| ACCTG 73 | Sage 100/MAS 90 Fundamentals | 2 |
| BA 10/10H | Introduction to Business, <i>or</i> Honors Introduction to Business | 3 |
| BT 123 | Ten-Key Skillbuilding..... | 0.5 |
| CIT 15 | Computer Concepts | 3 |

| Choose 3 of the following courses: | | Units |
|---|------------------------------|--------------|
| *ACCTG 53 | Tax Accounting | 3 |
| *ACCTG 54A | Principles of Auditing..... | 3 |
| *ACCTG 56 | Payroll Accounting..... | 3 |
| *ACCTG 57 | Governmental Accounting..... | 3 |
| *ACCTG 61 | Forensic Accounting..... | 3 |

*The advanced accounting courses noted above may also be used to satisfy the unit eligibility requirement that must be met before a person can take the CPA Exam. Many students take these courses to satisfy that CPA exam requirements as well as to satisfy the Certificate of achievement requirements.

COMPUTERIZED ACCOUNTING – MAJOR #2405

revised program, Fall 2013

The Computerized Accounting Certificate of Achievement is designed for entry-level employment as an account clerk using various software packages and the latest in business technology to perform various accounting functions.

Certificate of Achievement

Student Learning Outcomes:

1. Record and enter transactions into an accounting system in both a manual and computerized environment.
2. Develop accounting information to meet the needs of both external and internal users.
3. Demonstrate an understanding of accounting functions and skills required of account clerks.

| Required Courses | | Units |
|-------------------------|---|--------------|
| ACCTG 4A | Financial Accounting, or | |
| BT 131 | Applied Accounting..... | 4 |
| ACCTG 19 | Work Experience (Cooperative), Occupational | 3 |
| ACCTG 34 | Accounting Spreadsheets, or | |
| CIT 23 | Spreadsheet Fundamentals | 2 |
| ACCTG 55 | Accounting Methods..... | 1.5 |
| ACCTG 70 | QuickBooks Fundamentals, or | |
| ACCTG 73 | Sage 100/MAS 90 Fundamentals | 2 |
| BT 4 | Ten-Key Calculation | 2 |
| BT 23 | Job Search and Workplace Skills..... | 3 |
| BT 27 | Microsoft Outlook and E-Mail | 2 |
| BT 106 | Computer Keyboarding | 1.5 |
| BT 206 | Automated Business Records | 1 |
| BT 271 | Business Grammar Fundamentals | 2 |
| | | Total 24 |

FULL-CHARGE BOOKKEEPER – MAJOR #2012

revised program, Fall 2013

The Full-Charge Bookkeeper Certificate of Achievement is designed to provide knowledge and skills to individuals seeking employment as a bookkeeper.

Certificate of Achievement

Student Learning Outcomes:

1. Analyze, record, and enter transactions into an integrated accounting system in both a manual and computerized environment.
2. Develop and provide accounting information to meet the needs of both external and internal users.
3. Demonstrate an understanding of accounting functions and skills for full-charge bookkeepers.

| Required Courses | | Units |
|-------------------------|---|--------------|
| ACCTG 4A/4AH | Financial Accounting, or | |
| | Honors Financial Accounting..... | 4 |
| ACCTG4B/4BH | Managerial Accounting, or | |
| | Honors Managerial Accounting | 4 |
| ACCTG 19 | Work Experience (Cooperative), Occupational | 1 |
| ACCTG 51 | Intermediate Accounting..... | 3 |
| ACCTG 56 | Payroll Accounting..... | 3 |
| ACCTG 70 | QuickBooks Fundamentals, or | |
| ACCTG 73 | Sage 100/MAS 90 Fundamentals | 2 |
| | | Total 17 |

AFRICAN-AMERICAN STUDIES

AFRICAN-AMERICAN STUDIES – MAJOR #7640

revised program, Fall 2013

The African-American degree is a social science based program designed to focus on the history, heritage, and social culture of African-Americans and the African people of the diaspora. African-American Studies provides the knowledge and skills necessary to help students understand, communicate, and appreciate the rich cultural diversity in American society through the study of the African-American community.

Associate in Arts

Student Learning Outcomes:

1. Evaluate and analyze the historical and cultural contributions made by African-Americans to the American system.
2. Demonstrate a positive self-image based on the study of various subject areas of art, music, literature, and history of African-American people.
3. Evaluate and assess the historic roles of Africa and African people throughout the world.
4. Analyze and evaluate contemporary social, political, and economic issues of the African-American community.
5. Demonstrate academic success and positive community involvement.

| Required Core Courses: Select 24 Units | | Units |
|---|--|--------------|
| AFRAM 1 | Introduction to African American Studies | 3 |
| AFRAM 2 | Cultural Adaption of the African-American | 3 |
| AFRAM 3 | African-American Art | 3 |
| AFRAM 4 | Classical and Pre Colonial Africa | 3 |
| AFRAM 5 | The Africans of the New World..... | 3 |
| AFRAM 6 | African Cultures and Languages | 3 |
| AFRAM 13 | African-American Music from Pre-Slavery to 1940..... | 3 |

| | | |
|--|---|---|
| AFRAM 15 | African-American Music from 1940 to the Present | 3 |
| Course Options: Select at least 3 units | | |
| AFRAM 8 | African-American Creative Workshop | 3 |
| AFRAM 17 | African-American Literature..... | 3 |
| AFRAM 36 | Contemporary Africa | 3 |
| AFRAM/ WSTS 41 | African-American Women's Studies | 3 |

Note: An associate in arts degree will be awarded to any candidate who successfully completes 60 units. The 60 units must include associate degree requirements and at least 27 units of course work as listed above.

AIR CONDITIONING

AIR CONDITIONING – MAJOR #8030

revised program, Spring 2013

The program provides training in troubleshooting, maintenance, repair, and installation of heating, cooling, and refrigeration systems. The curriculum will emphasize fundamental and advanced skills in both classroom and lab activities. Students will train on residential and commercial systems similar to those found in the workplace. Upon successful completion of the program, students may take the Air Conditioning and Refrigeration Institute's (ARI) Industry Competency Examination(s), the North American Technician Excellence (NATE) core section of the certification exam, R-410A safety certification exam, and EPA approved certification under provisions of the Federal Clean Air Act, Section 608.

Associate in Science Degree

Student Learning Outcomes:

1. Identify and describe the function of the major and auxiliary refrigerant system components.
2. Interpret HVAC wiring diagrams to be used in the electrical troubleshooting process of related equipment.
3. Calculate air volume (CFM) and system capacity by measuring velocity pressure using a pitot tube and incline manometer along with wet and dry bulb readings on the psychrometric chart.
4. Diagnose and repair electrical and refrigerant circuit problems in an air conditioning system.
5. Certification of students' ability as an entry level air conditioning technician.
6. Flare, swage, silver braze and solder copper pipe and fittings while observing all safety precautions.

FIRST YEAR

| First Semester | | Units |
|----------------|--|----------|
| AC 50 | Principles of Mechanical Refrigeration | 3 |
| AC 51 | Electrical Systems | 7 |
| AC 53 | Measurements and Diagnosis | 7 |
| AT 10 | Technical Computer Applications..... | 3 |
| | | Total 20 |

| Second Semester | | Units |
|-----------------|--|----------|
| AC 52 | Heating Systems | 7 |
| AC 54 | Commercial Systems | 7 |
| AC 55 | Technician Testing and Certification | 1 |
| AC 56 | Duct Systems | 3 |
| | | Total 18 |

SECOND YEAR

| First Semester | | Units |
|----------------|--|---------|
| AC 57 | System Configuration and Control | 2 |
| AT 21 | Occupational Safety and Health | 2 |
| WELD 1 | Exploring Welding/Metals..... | 3 |
| | | Total 7 |

| Second Semester | | Units |
|-----------------|--|----------|
| AT 40 | Preparing for Employment Opportunities | 3 |
| AT 120 | Industrial Science..... | 3 |
| EST 55A | Digital Concepts..... | 3 |
| EST 55B | Facility Automation..... | 3 |
| | | Total 12 |

Students qualify for the certificate of achievement upon completion of the major requirements listed above. In addition, those completing the associate degree requirements on page 33 of the catalog, upon application, will be awarded the associate in science degree.

AIR CONDITIONING – MAJOR #8030

revised program, Spring 2013

The program provides training in troubleshooting, maintenance, repair, and installation of heating, cooling, and refrigeration systems. The curriculum will emphasize fundamental and advanced skills in both classroom and lab activities. Students will train on residential and commercial systems similar to those found in the workplace. Upon successful completion of the program, students may take the Air Conditioning and Refrigeration Institute's (ARI) Industry Competency Examination(s), the North American Technician Excellence (NATE) core section of the certification exam, R-410A safety certification exam, and EPA approved certification under provisions of the Federal Clean Air Act, Section 608.

Certificate of Achievement

Student Learning Outcomes:

1. Identify and describe the function of the major and auxiliary refrigerant system components.
2. Interpret HVAC wiring diagrams to be used in the electrical troubleshooting process of related equipment.
3. Calculate air volume (CFM) and system capacity by measuring velocity pressure using a pitot tube and incline manometer along with wet and dry bulb readings on the psychrometric chart.
4. Diagnose and repair electrical and refrigerant circuit problems in an air conditioning system.
5. Certification of students' ability as an entry level air conditioning technician.
6. Flare, swage, silver braze and solder copper pipe and fittings while observing all safety precautions.

FIRST YEAR

| First Semester | | Units |
|-----------------------|--|--------------|
| AC 50 | Principles of Mechanical Refrigeration | 3 |
| AC 51 | Electrical Systems | 7 |
| AC 53 | Measurements and Diagnosis | 7 |
| AT 10 | Technical Computer Applications | 3 |
| | | Total 20 |

| Second Semester | | Units |
|------------------------|--|--------------|
| AC 52 | Heating Systems | 7 |
| AC 54 | Commercial Systems | 7 |
| AC 55 | Technician Testing and Certification | 1 |
| AC 56 | Duct Systems | 3 |
| | | Total 18 |

SECOND YEAR

| First Semester | | Units |
|-----------------------|--|--------------|
| AC 57 | System Configuration and Control | 2 |
| AT 21 | Occupational Safety and Health | 2 |
| AT 130 | Industrial Mathematics | 3 |
| WELD 1 | Exploring Welding/Metals | 3 |
| | | Total 10 |

| Second Semester | | Units |
|------------------------|--|--------------|
| AT 40 | Preparing for Employment Opportunities | 3 |
| AT 120 | Industrial Science | 3 |
| EST 55A | Digital Concepts | 3 |
| EST 55B | Facility Automation | 3 |
| | | Total 12 |

Students qualify for the certificate of achievement upon completion of the major requirements listed above. In addition, those completing the associate degree requirements on page 33 of the catalog, upon application, will be awarded the associate in science degree.

AIR CONDITIONING TECHNOLOGY OVERVIEW - Major #8033

revised program, Spring 2013

This curriculum provides training in the principles of mechanical refrigeration, residential and commercial system configurations, electrical fundamentals, motors and controls, heating systems, and troubleshooting procedures.

Certificate of Achievement

Student Learning Outcomes:

1. Identify and describe the function of the major and auxiliary refrigeration, electrical and air delivery system components.
2. Interpret HVAC wiring diagrams to be used in the electrical troubleshooting process of related equipment.
3. Explain the combustion process and demonstrate the ability to install, adjust and troubleshoot natural gas furnaces.
4. Analyze refrigerant and electrical readings to diagnose and repair heating and cooling equipment.

Required Courses

Units

| | | |
|---------|--|---|
| AC 60A | Fundamentals of Refrigeration | 3 |
| AC 260B | Electricity for Air Conditioning | 3 |
| AC 260C | Residential Heating | 3 |
| AC 260D | Troubleshooting Procedures | 2 |
| AT 10 | Technical Computer Applications..... | 3 |
| | Total 14 | |

DIGITAL AIR CONDITIONING CONTROLS – Major #8034

revised program, effective Spring 2013

This curriculum provides training in the use of direct digital controls in commercial HVAC applications, examines various system configurations, control strategies, and introduces total building automation.

Certificate of Achievement

Student Learning Outcomes:

1. Write a program to control an air conditioner and a variable air volume box.
2. Define and map the hardware and software points required for network operation and monitoring.
3. Install a variable air volume controller using approved guidelines, selecting appropriate sensors and final drive devices.
4. Create a network of digital air conditioning controllers and verify their communication.
5. Download and upload digital air conditioning devices and network controllers.
6. Recommend appropriate control strategies given a typical air conditioning system configuration.

Required Courses

Units

| | | |
|---------|--|---|
| AC 57 | System Configuration and Control | 2 |
| AC 250 | Digital Unitary Controls..... | 2 |
| AC 251 | Digital VAV Controls..... | 1 |
| AC 252 | DDC Network Controllers..... | 2 |
| AT 10 | Technical Computer Applications..... | 3 |
| EST 55A | Digital Concepts..... | 3 |
| EST 55B | Facility Automation..... | 3 |
| | Total 16 | |

AMERICAN INDIAN STUDIES

AMERICAN INDIAN STUDIES – Major #7680

revised program, Fall 2013

Fresno City College is located in an area that is rich in the history and contemporary cultures of American Indians. California has the highest American-Indian population in the United States, and has several Indigenous communities in our immediate area. American Indian Studies exists to serve Indian and non-Indian students who will be working in any service field, academic or social institution. The program leading to the associate in arts degree will also provide a foundation in American Indian Studies for students wishing to pursue a higher degree in the subject at a four-year university. In recent years, several graduate programs have begun in American-Indian Studies at universities in California and elsewhere. Student must complete 12 units of required basic core courses. Select 9 units from the course options listed below for a total of 21 units for an associate in arts degree.

Associate in Arts

Student Learning Outcomes:

1. Identify and describe cultural differences and similarities among the American Indian and Alaskan Native societies of North America.
2. Describe and analyze the material, political, spiritual, and environmental contributions made by American Indian societies to the world.
3. Identify the inappropriate uses of racial stereotypes about Indians and analyze how they have been used to advance special interests.
4. Explain historically the effects of colonization and imperialism on American Indian tribes.
5. Identify the major issues of the 20th and 21st century for American Indians, with an example on current events.
6. Evaluate the arts of diverse peoples through an expanded awareness and appreciation of North American arts.

Required Core Courses

Units

| | | |
|----------|---|---|
| AMIND 31 | American Indian Culture..... | 3 |
| AMIND 32 | American Indian History | 3 |
| AMIND 34 | The American Indian in Contemporary Society | 3 |
| AMIND 35 | American Indian Art..... | 3 |

Course Options: Select a Minimum of 9 Units

Units

| | | |
|-----------|---|---|
| AFRAM 5 | The Africans of the New World..... | 3 |
| AMST 10 | American Pluralism: A Search for Common Ground in a Multicultural Society | 3 |
| ANTHRO 20 | Native Peoples of California | 3 |

| | |
|--|---|
| ANTHRO/CLS 28 Ancient Mexico | 3 |
| CLS 11 Introduction to Chicano-Latino Studies..... | 3 |
| ENGL 14 Folklore | 3 |
| GEOG 2 Cultural Geography | 3 |
| SOC 2 American Minority Groups..... | 3 |

An associate in arts degree will be awarded to any candidate who successfully completes a total of 60 units. The 60 units must include associate degree requirements and 21 units in course work as listed above.

ANTHROPOLOGY

ANTHROPOLOGY – Major #7100

revised program, Fall 2013

A program designed to acquaint students with human diversity, anthropology offers a broad approach to the study of people including the prehistoric, biological, and cultural perspectives. Because of its wide coverage, anthropology provides a versatile background, which can serve as a solid foundation not only for transfer students in anthropology but for many fields and vocations.

Students planning for a career in anthropology will need to earn at least a Bachelor's degree. Therefore students are strongly encouraged to meet with a counselor about transfer requirements (IGETC/CSU certification) early in their program. Anthropology students should also meet with anthropology faculty about course/program offerings as soon as possible once the major has been declared in order to complete the program in a timely manner.

Associate in Arts Degree

Student Learning Outcomes:

1. Identify the primary goals of the discipline of anthropology.
2. Demonstrate understanding of the primary methods of the discipline of anthropology.
3. Demonstrate understanding of human cultural diversity and biological variation.

Required Core Courses (15 units minimum) Units

Recommend ANTHRO 2 be taken prior to other anthropology courses.

For the core courses, students may take either ANTHRO 3 OR ANTHRO 4.

| | |
|---|---|
| ANTHRO 1 Biological Anthropology | 3 |
| ANTHRO 2/2H Cultural Anthropology..... | 3 |
| ANTHRO 3 Archaeology and World Prehistory, <i>or</i> | |
| ANTHRO 4 Introduction to Archaeology | 3 |
| ANTHRO 13 Anthropology of Magic, Witchcraft, and Religion | 3 |
| LING 10 Introduction to Language..... | 3 |

Electives (6 units minimum) Units

| | |
|---|-------|
| ANTHRO 3 * Archaeology and World Prehistory | 3 |
| ANTHRO 4 * Introduction to Archaeology..... | 3 |
| ANTHRO 4L Archaeological Field Methods | 1 |
| ANTHRO 5 Archaeological Laboratory Methods | 4 |
| ANTHRO 6 Field Archaeology | 1 - 3 |
| ANTHRO 20 Native Peoples of California | 3 |
| ANTHRO 28 Ancient Mexico | 3 |
| ANTHRO 30 Topics in Anthropology..... | 1 - 3 |
| AFRAM 1 Introduction to African American Studies | 3 |
| AFRAM 6 African Cultures and Languages | 3 |
| AFRAM 41 African-American Women's Studies | 3 |
| AMIND 31 American Indian Culture..... | 3 |
| AMIND 34 The American Indian in Contemporary Society | 3 |
| AMST 10 American Pluralism: A Search for Common Ground in a Multicultural Society..... | 3 |
| ASAMER 10 Hmong Culture | 3 |
| ASAMER 15 Introduction to Asian-Americans | 3 |
| ASAMER 25 Asian American Social Issues | 3 |
| ASAMER 30 Asian-American Women..... | 3 |
| ASL 5 Deaf Culture | 3 |
| BIOL 5 Human Biology | 4 |
| BIOL 20 Human Anatomy | 4 |
| CHDEV 15 Diversity and Culture in Early Care and Education Programs.. | 3 |
| CHDEV 30 Child, Family and Community | 3 |
| CLS 11 Introduction to Chicano-Latino Studies..... | 3 |
| CLS 22 Pre-Columbian Art..... | 3 |
| CLS 24 La Chicana and Latina | 3 |
| COMM 20 Community Involvement..... | 2 - 3 |

| | | |
|-----------|---|---|
| CULTS 10 | Islamic Culture | 3 |
| ENGL 14 | Folklore | 3 |
| ENGL 36 | Women in Literature | 3 |
| FILM 3 | Film and Culture | 3 |
| FILM 5 | Digital Filmmaking | 3 |
| GEOG 2 | Cultural Geography | 3 |
| HIST 3 | History of Ancient Rome..... | 3 |
| HIST 18 | History of Ancient Greece | 3 |
| HIST 30 | California History | 3 |
| HS 10 | Introduction to Aging Studies | 3 |
| HS 30 | Group and Community Social Services..... | 3 |
| JOURN 16 | Race, Gender and the Media | 3 |
| PLEGAL 16 | Environmental Law..... | 3 |
| PHIL 1D | World Religions | 3 |
| PHIL 2 | Critical Reasoning and Analytic Writing..... | 3 |
| PSY 5 | Social Psychology | 3 |
| PSY 15 | Psychology of Religion | 3 |
| PSY 36 | Biological Psychology..... | 3 |
| PSY 42 | Statistics for the Behavioral Sciences | 4 |
| SOC 1B | Critical Thinking about Social Problems | 3 |
| WSTS 10 | Changing Roles of Women | 3 |
| WSTS 47 | Introduction to Lesbian and Gay Studies..... | 3 |

**If not used for core requirement.*

APPRENTICESHIP

APPRENTICESHIP AUTOMOTIVE AND HEAVY-DUTY ELECTRICAL – Major #9020 *revised program, Spring 2013*

This curriculum is designed for the auto electrical or heavy-duty electrical worker who is employed full time and indentured as an apprentice by the Automotive Mechanics Joint Apprenticeship Committee.

Certificate

Student Learning Outcomes:

1. Assess, identify, and minimize safety hazards in the performance of job duties.
2. Identify automotive/forklift and heavy-duty electrical systems and summarize how the respective system(s) functions.
3. Adhering to industry standards, identify, troubleshoot and resolve automotive/forklift faults/problems.

FIRST YEAR

| | |
|--|--------------|
| First Semester | Units |
| AUTOT 281A Automotive Power Trains I | 3 |

| | |
|---|--------------|
| Second Semester | Units |
| AUTOT 281B Automotive Power Trains II | 3 |

SECOND YEAR

| | |
|--|--------------|
| First Semester | Units |
| AUTOT 282A Suspension and Wheel Alignment..... | 3 |

| | |
|---|--------------|
| Second Semester | Units |
| AUTOT 282B Automotive Braking Systems | 3 |

THIRD YEAR

| | |
|---|--------------|
| First Semester | Units |
| AUTOT 283A Engine Performance and Diagnosis | 3 |

| | |
|--------------------------------------|--------------|
| Second Semester | Units |
| WELD 1 Exploring Welding/Metals..... | 3 |

FOURTH YEAR

| | |
|--|--------------|
| First Semester | Units |
| AT 10 Technical Computer Applications..... | 3 |

| | |
|--|--------------|
| Second Semester | Units |
| APP 260 Apprenticeship – First Aid | 0.5 |

Total 21.5

Recommended Elective: APP 19.

Contact Coordinator of Apprenticeship Training.

APPRENTICESHIP AUTOMOTIVE MECHANICS – Major #9040

revised program, Spring 2013

This curriculum is designed for the automotive mechanic who is employed full time and indentured as an apprentice by the Automotive Mechanics Joint Apprenticeship Committee.

Certificate

Student Learning Outcomes:

1. Assess, identify, and minimize safety hazards in the performance of job duties.
2. Identify automotive systems (power train, suspension, braking, etc.) and summarize how the respective system(s) functions.
3. Adhering to industry standards, identify, troubleshoot and resolve automotive faults/problems.

FIRST YEAR

| First Semester | | Units |
|-----------------------|---|--------------|
| AUTOT 9 * | Automotive Essentials | 3 |
| AUTOT 52 | Automotive Electrical Systems | 5 |
| AUTOT 19 ** | Work Experience (Cooperative), Occupational | 2 – 8 |

| Second Semester | | Units |
|------------------------|---|--------------|
| AUTOT 53 | Engine Performance..... | 5 |
| AUTOT 19 ** | Work Experience (Cooperative), Occupational | 2 – 8 |

| Summer Semester | | Units |
|------------------------|--|--------------|
| AUTOT 51 | Principles of Engine Theory and Service..... | 3 |
| AUTOT 51L | Automotive Engine Laboratory | 2 |

SECOND YEAR

| First Semester | | Units |
|-----------------------|---|--------------|
| AUTOT 54 | Suspension, Steering, and Wheel Alignment | 5 |
| AUTOT 19 ** | Work Experience (Cooperative), Occupational | 2 – 8 |

| Second Semester | | Units |
|------------------------|--|--------------|
| AUTOT 55 | Power Trains: Transmissions/Transaxles, Differentials, and Driveaxles | 6 |
| AUTOT 19 ** | Work Experience (Cooperative), Occupational | 2 – 8 |

THIRD YEAR

| First Semester | | Units |
|-----------------------|---|--------------|
| AUTOT 56 | Automotive Braking Systems | 5 |
| AUTOT 19 ** | Work Experience (Cooperative), Occupational | 2 – 8 |

| Second Semester | | Units |
|------------------------|---|--------------|
| AUTOT 57 | Automotive Heating, Ventilation, Air Conditioning, and Advanced Electronics..... | 5 |

FOURTH YEAR

| First Semester | | Units |
|-----------------------|-------------------------------|--------------|
| WELD 1 | Exploring Welding/Metals..... | 3 |
| AT 130 | Industrial Mathematics | 3 |

| Second Semester | | Units |
|------------------------|--------------------------------------|--------------|
| AT 10 | Technical Computer Applications..... | 3 |
| AT 21 | Occupational Safety and Health..... | 2 |
| APP 260 | Apprenticeship – First Aid | 0.5 |

Recommended Elective: AUTOT 161A, 262A, 281A.

**High School Articulation (1 year)*

*** Apprentice must complete at least 10 units of work experience.*

APPRENTICESHIP BODY AND FENDER – Major #9080

revised program, Spring 2013

This curriculum is designed for the body and fender mechanic who is employed full time and indentured as an apprentice by the Automotive Mechanics Joint Apprenticeship Committee.

Certificate

Student Learning Outcomes:

1. Assess, identify, and minimize safety hazards in the performance of job duties.
2. Identify automotive body repair systems (preparation, body panel repair/replacement, metal finishing, glass and hardware, etc.) and their characteristics.
3. Adhering to industry standards, identify the problem and related body system and compose an action plan for repair.

FIRST YEAR

| First Semester | Units |
|---|--------------|
| APP 260 Apprenticeship – First Aid | 0.5 |

| Second Semester | Units |
|--|--------------|
| AUTOT 9 Automotive Essentials | 3 |

SECOND YEAR

| First Semester | Units |
|---|--------------|
| AUTOT 282A Suspension and Wheel Alignment..... | 3 |

| Second Semester | Units |
|--|--------------|
| AUTOT 284 Automotive Air Conditioning | 3 |

THIRD YEAR

| First Semester | Units |
|---|--------------|
| AUTOT 294 Lamp and Brake Adjustment/Certification Preparation..... | 1.5 |

| Second Semester | Units |
|---------------------------------------|--------------|
| ACRT 155 Spray Refinishing | 2 |

FOURTH YEAR

| First Semester | Units |
|--|--------------|
| AT 10 Technical Computer Applications | 3 |

| Second Semester | Units |
|---|--------------|
| WELD 1 Exploring Welding/Metals..... | 3 |

APPRENTICESHIP DIESEL AND HEAVY-DUTY MECHANICS – Major # 9100

revised program, Spring 2013

This curriculum is designed for the diesel and heavy-duty mechanic who is employed full time and indentured as an apprentice by the Automotive Mechanics Joint Apprenticeship Committee.

Certificate

Student Learning Outcomes:

1. Assess, identify, and minimize safety hazards in the performance of job duties
2. Identify diesel truck systems (power train, suspension, braking, etc.) and summarize how the respective system(s) functions.
3. Adhering to industry standards, identify, troubleshoot and resolve diesel truck faults/problems.

FIRST YEAR

| First Semester | Units |
|--|--------------|
| MAG 201 Diesel Electrical Troubleshooting | 5 |

| Second Semester | Units |
|-----------------------------------|--------------|
| MAG 202 Diesel Engines | 5 |

SECOND YEAR

| First Semester | Units |
|--|--------------|
| MAG 203 Transmissions and Torque Converters | 5 |

| Second Semester | Units |
|-------------------------------|--------------|
| MAG 204 Hydraulics | 5 |

THIRD YEAR

| | | |
|-----------------------|---------------------------------------|--------------|
| First Semester | | Units |
| AT 10 | Technical Computer Applications | 3 |

| | | |
|------------------------|----------------------------------|--------------|
| Second Semester | | Units |
| APP 260 | Apprenticeship – First Aid | 0.5 |

Recommended Elective: APP 19.

APPRENTICESHIP MACHINE SHOP – Major #9200

revised program, Spring 2013

This curriculum is designed for the machinist who is employed full time and indentured as an apprentice by the Machinist Joint Apprenticeship Committee.

Certificate

Student Learning Outcomes:

1. Assess, identify, and minimize safety hazards in the performance of job duties.
2. Identify machine tool systems (mill, lathe, grinder, etc.) and summarize how the respective machine tool functions.
3. Perform repair and replacement of manufacturing equipment, up to and including machining of the replacement part.

FIRST YEAR

| | | |
|-----------------------|------------------------------|--------------|
| First Semester | | Units |
| AT 130 | Industrial Mathematics | 3 |
| DRAFT 12 | Drafting Practices | 3 |

| | | |
|------------------------|-----------------------------|--------------|
| Second Semester | | Units |
| MFGT 37A | Machine Shop (Turning)..... | 5 |

SECOND YEAR

| | | |
|-----------------------|---------------------------|--------------|
| First Semester | | Units |
| MFGT 37B | Machine Shop—Milling..... | 5 |

| | | |
|------------------------|---|--------------|
| Second Semester | | Units |
| AT 10 | Technical Computer Applications | 3 |
| CAM 10 | CNC Mill Programming & Operation I..... | 7 |

THIRD YEAR

| | | |
|-----------------------|--|--------------|
| First Semester | | Units |
| CAM 20 | CNC Mill Programming & Operation II..... | 6 |

| | | |
|------------------------|----------------------------------|--------------|
| Second Semester | | Units |
| AT 11 | Basic Electricity | 3 |
| APP 260 | Apprenticeship – First Aid | 0.5 |

FOURTH YEAR

| | | |
|-----------------------|--|--------------|
| First Semester | | Units |
| CAM 20 | CNC Mill Programming & Operation II..... | 7 |

| | | |
|------------------------|-------------------------------|--------------|
| Second Semester | | Units |
| AT 120 | Industrial Science | 3 |
| WELD 1 | Exploring Welding/Metals..... | 3 |

Recommended Elective: APP 19

APPRENTICESHIP PARTS CLERK – Major #9260

revised program, Spring 2013

This curriculum is designed for the parts clerk who is employed full time and indentured as an apprentice by the local Automotive Mechanics Joint Apprenticeship Committee.

Certificate

Student Learning Outcomes:

1. Demonstrate basic knowledge of automotive systems (power train, suspension, braking, etc.) and their related replacement parts.
2. Identify and describe inventory control and accounting systems in their relation to the automotive parts application(s).
3. Define and describe human behavioral theories/applications in relation to supervisory and customer relation roles.

FIRST YEAR

| | | |
|------------------------|---|--------------|
| First Semester | | Units |
| AUTOT 9 | Automotive Essentials | 3 |
| Second Semester | | Units |
| AT 130 | Industrial Mathematics and/or math test | 3 |
| SECOND YEAR | | |
| First Semester | | Units |
| BA 10/10H | Introduction to Business, or Honors Introduction to Business | 3 |
| Second Semester | | Units |
| BA 40 | Supervision and Leadership | 3 |
| THIRD YEAR | | |
| First Semester | | Units |
| ACCTG 4A/4AH | Financial Accounting, or Honors Financial Accounting | 4 |
| Second Semester | | Units |
| AT 10 | Technical Computer Applications | 3 |
| FOURTH YEAR | | |
| First Semester | | Units |
| COMM 2 | Interpersonal Communication | 3 |
| Second Semester | | Units |
| APP 260 | Apprenticeship – First Aid | 0.5 |
| AT 21 | Occupational Safety and Health | 2 |

APPRENTICESHIP STATIONARY ENGINEERS – Major #9360

program revised, Spring 2013

This curriculum is designed for the stationary engineer who is employed full time and indentured as an apprentice by the Stationary Engineers Joint Apprenticeship Committee.

Certificate

Student Learning Outcomes:

1. Maintain and repair systems and functions associated with the maintenance of facilities.
2. Troubleshoot and provide preventative maintenance of facilities
3. Communicate effectively, not only using the terminology appropriate to this trade, but the skills acquired in the other non-technical course work.

FIRST YEAR

| | | |
|------------------------|--------------------------------------|--------------|
| First Semester | | Units |
| AT 130 | Industrial Mathematics | 3 |
| Second Semester | | Units |
| AT 21 | Occupational Safety and Health | 2 |

SECOND YEAR

| | | |
|------------------------|--------------------------------|--------------|
| First Semester | | Units |
| WELD 1 | Exploring Welding/Metals | 3 |
| Second Semester | | Units |
| AT 11 | Basic Electricity | 3 |

THIRD YEAR

| | | |
|------------------------|--|--------------|
| First Semester | | Units |
| AC 60A | Fundamentals of Refrigeration | 3 |
| Second Semester | | Units |
| AC 260B | Electricity for Air Conditioning | 3 |

FOURTH YEAR

| | | |
|-----------------------|--|--------------|
| First Semester | | Units |
|-----------------------|--|--------------|

AT 10 Technical Computer Applications..... 3

Second Semester Units

EST 272 Industrial Motor Control 3

Recommended Elective: APP 19

APPRENTICESHIP WELDING – Major #9380

revised program, Spring 2013

This curriculum is designed for the welder who is employed full time and indentured as an apprentice by the Welding/Mechanic Joint Apprenticeship Committee.

Certificate

Student Learning Outcomes:

1. Assess, identify, and minimize safety hazards in the performance of job duties.
2. Identify and differentiate between different welding systems (TIG, MIG, etc.).
3. Identify different manufacturing systems (e.g. hydraulic, pneumatic, electrical) and formulate methods for troubleshooting and/or repair.

FIRST YEAR

First Semester Units

AT 130 Industrial Mathematics 3

DRAFT 12 Drafting Practices 3

Second Semester Units

MFGT 37A Machine Shop (Turning) 5

SECOND YEAR

First Semester Units

MFGT 37B Machine Shop (Milling) 5

Second Semester Units

AT 120 Industrial Science 3

WELD 1 Exploring Welding/Metals 3

THIRD YEAR

First Semester Units

EST 51 Direct Current Fundamentals of Electronics 3

Second Semester Units

EST 58 Programmable Logic Controllers 3

FOURTH YEAR

First Semester Units

EST 59 Instrumentation Systems 3

AT 10 Technical Computer Applications 3

Second Semester Units

APP 260 Apprenticeship – First Aid 0.5

ARCHITECTURE

ARCHITECTURE – Major #6810

revised program, Spring 2013

This curriculum is designed to prepare students for employment with architects, engineers, interior designers, building contractors, building material companies and government agencies. It is also designed as basic coursework for transferring into advanced degree programs in architecture and related fields. Courses may or may not be transferable based on school to which you are transferring, course content, and quality/quantity of the student portfolio. Students are encouraged to take courses in the order listed. Not all courses are offered each semester. Students wishing to transfer into an advanced degree program should contact that particular college or university for all specific transfer requirements including, but not limited to Math and English.

Associate in Science Degree

Student Learning Outcomes:

1. Synthesize alternative solutions to a specific problem.
2. Design and complete an architectural education portfolio.
3. Draw a floor plan, foundation plan, roof framing plan, sections, elevations.

FIRST YEAR

| Fall Semester | | Units |
|----------------------|--|--------------|
| ARCH 10 | Architectural Design and Visualization I | 3 |
| ARCH 11 | Introduction to Architecture and Environmental Design..... | 2 |
| ARCH 12 | Architectural Practice I | 3 |
| AT 10 | Technical Computer Applications..... | 3 |
| DRAFT 160 | Mathematics of Drafting | 3 |
| Total | | 14 |

| Spring Semester | | Units |
|------------------------|---|--------------|
| ARCH 20 | Architectural Design and Visualization II | 3 |
| ARCH 21 | Materials of Construction..... | 3 |
| ARCH 22 | Architectural Practice II | 3 |
| ARCH 24 | Architectural CAD I..... | 3 |
| AT 131 | Technical Report Writing | 3 |
| Total | | 15 |

SECOND YEAR

| Fall Semester | | Units |
|----------------------|--|--------------|
| ARCH 30 | Architectural Design and Visualization III | 3 |
| ARCH 31 | Building Codes | 3 |
| ARCH 32 | Statics and Strength of Materials | 3 |
| ARCH 34 | Architectural CAD II..... | 3 |
| Total | | 12 |

| Spring Semester | | Units |
|------------------------|---|--------------|
| ARCH 40 | Architectural Design and Visualization IV | 3 |
| ARCH 41A | Office Practices | 3 |
| ARCH 42 | Timber and Steel Structures..... | 3 |
| AT 40 | Preparing for Employment Opportunities | 3 |
| Total | | 12 |

Note: Students qualify for the certificate of achievement upon completion of the major requirements listed above. In addition, those completing the associate degree requirements on page 33 of the catalog, upon application, will be awarded the associate in science degree.

ARCHITECTURE – Major #6810

revised program, Fall 2013

This curriculum is designed to prepare students for employment with architects, engineers, interior designers, building contractors, building material companies and government agencies. It is also designed as basic coursework for transferring into advanced degree programs in architecture and related fields. Courses may or may not be transferable based on school to which you are transferring, course content, and quality/quantity of the student portfolio. Students are encouraged to take courses in the order listed. Not all courses are offered each semester. Students wishing to transfer into an advanced degree program should contact that particular college or university for all specific transfer requirements including, but not limited to Math and English. Additional courses are necessary to fulfill the requirements for the Associate in Science degree. Please refer to the current catalog for more information.

Associate in Science Degree

Student Learning Outcomes:

1. Synthesize alternative solutions to a specific problem.
2. Design and complete an architectural education portfolio.
3. Draw a floor plan, foundation plan, roof framing plan, sections, elevations.

FIRST YEAR

| Fall Semester | | Units |
|----------------------|--|--------------|
| ARCH 10 | Architectural Design and Visualization I | 3 |
| ARCH 11 | Introduction to Architecture and Environmental Design..... | 2 |
| ARCH 12 | Architectural Practice I | 3 |
| ARCH 14 | Digital Tools for Architects..... | 2 |
| Total | | 10 |

| Spring Semester | | Units |
|------------------------|---|--------------|
| ARCH 20 | Architectural Design and Visualization II | 3 |
| ARCH 21 | Materials of Construction..... | 3 |
| ARCH 22 | Architectural Practice II | 3 |
| ARCH 24 | Building Information Modeling | 3 |

Total 12

SECOND YEAR

| Fall Semester | | Units |
|----------------------|--|--------------|
| ARCH 30 | Architectural Design and Visualization III | 3 |
| ARCH 31 | Building Codes | 3 |
| ARCH 32 | Statics and Strength of Materials | 3 |
| ARCH 34 | Digital Rendering..... | 3 |
| | | Total 12 |

| Spring Semester | | Units |
|------------------------|--|--------------|
| ARCH 40 | Architectural Design and Visualization IV..... | 3 |
| ARCH 41A | Office Practices | 3 |
| ARCH 42 | Timber and Steel Structures..... | 3 |
| | | Total 9 |

Note: Students qualify for the certificate of achievement upon completion of the major requirements listed above. In addition, those completing the associate degree requirements on page 33 of the catalog, upon application, will be awarded the associate in science degree.

ARCHITECTURE – Major #6810

revised program, Spring 2013

This certificate of achievement is designed to prepare students for employment with architects, engineers, interior designers, building contractors, building material companies and government agencies. It is also designed as basic coursework for transferring into advanced degree programs in architecture and related fields. Courses may or may not be transferable based on school to which you are transferring, course content, and quality/quantity of the student portfolio. Students are encouraged to take courses in the order listed. Not all courses are offered each semester. Students wishing to transfer into an advanced degree program should contact that particular college or university for all specific transfer requirements including, but not limited to Math and English.

Certificate of Achievement

Student Learning Outcomes:

1. Synthesize alternative solutions to a specific problem.
2. Design an architectural education portfolio.
3. Draw a floor plan, foundation plan, roof framing plan, sections and elevations.

FIRST YEAR

| Fall Semester | | Units |
|----------------------|---|--------------|
| ARCH 10 | Architectural Design and Visualization I | 3 |
| ARCH 11 | Introduction to Architecture and Environmental Design | 2 |
| ARCH 12 | Architectural Practice I | 3 |
| ARCH 14 | Digital Tools for Architects | 3 |
| AT 10 | Technical Computer Applications | 3 |
| DRAFT | 160 Mathematics of Drafting | 3 |
| | | Total 17 |

| Spring Semester | | Units |
|------------------------|---|--------------|
| ARCH 20 | Architectural Design and Visualization II | 3 |
| ARCH 21 | Materials of Construction | 3 |
| ARCH 22 | Architectural Practice II | 3 |
| ARCH 24 | Architectural CAD I | 3 |
| AT 131 | Technical Report Writing | 3 |
| | | Total 15 |

SECOND YEAR

| Fall Semester | | Units |
|----------------------|--|--------------|
| ARCH 30 | Architectural Design and Visualization III | 3 |
| ARCH 31 | Building Codes | 3 |
| ARCH 32 | Statics and Strength of Materials | 3 |
| ARCH 34 | Architectural CAD II | 3 |
| | | Total 12 |

| Spring Semester | | Units |
|------------------------|---|--------------|
| ARCH 40 | Architectural Design and Visualization IV | 3 |
| ARCH 41A | Office Practices | 3 |
| ARCH 42 | Timber and Steel Structures | 3 |

| | | |
|-------|--|----|
| AT 40 | Preparing for Employment Opportunities | 3 |
| | Total | 12 |

Note: Students qualify for the certificate of achievement upon completion of the major requirements listed above.

ARCHITECTURE – Major #6810

revised program, Fall 2013

This certificate of achievement is designed to prepare students for employment with architects, engineers, interior designers, building contractors, building material companies and government agencies. It is also designed as basic coursework for transferring into advanced degree programs in architecture and related fields. Courses may or may not be transferable based on school to which you are transferring, course content, and quality/quantity of the student portfolio. Students are encouraged to take courses in the order listed. Not all courses are offered each semester. Students wishing to transfer into an advanced degree program should contact that particular college or university for all specific transfer requirements including, but not limited to Math and English.

Certificate of Achievement

Student Learning Outcomes:

1. Synthesize alternative solutions to a specific problem.
2. Design an architectural education portfolio.
3. Draw a floor plan, foundation plan, roof framing plan, sections and elevations.

FIRST YEAR

| Fall Semester | | Units |
|---------------|--|-------|
| ARCH 10 | Architectural Design and Visualization I | 3 |
| ARCH 11 | Introduction to Architecture and Environmental Design..... | 2 |
| ARCH 12 | Architectural Practice I | 3 |
| ARCH 14 | Digital Tools for Architects..... | 2 |
| | Total | 10 |

| Spring Semester | | Units |
|-----------------|---|-------|
| ARCH 20 | Architectural Design and Visualization II | 3 |
| ARCH 21 | Materials of Construction..... | 3 |
| ARCH 22 | Architectural Practice II | 3 |
| ARCH 24 | Building Information Modeling..... | 3 |
| | Total | 12 |

SECOND YEAR

| Fall Semester | | Units |
|---------------|--|-------|
| ARCH 30 | Architectural Design and Visualization III | 3 |
| ARCH 31 | Building Codes | 3 |
| ARCH 32 | Statics and Strength of Materials | 3 |
| ARCH 34 | Digital Rendering..... | 3 |
| | Total | 12 |

| Spring Semester | | Units |
|-----------------|--|-------|
| ARCH 40 | Architectural Design and Visualization IV..... | 3 |
| ARCH 41A | Office Practices | 3 |
| ARCH 42 | Timber and Steel Structures..... | 3 |
| | Total | 9 |

Note: Students qualify for the certificate of achievement upon completion of the major requirements listed above.

BASIC ARCHITECTURAL CONTRACT DOCUMENTS – Major #

new program, Fall 2013

This curriculum is designed to provide beginning knowledge and skills to individuals in the areas of architectural contract documents, accessibility and engineering principles.

Certificate

Student Learning Outcomes:

1. Demonstrate through drawing the technical elements of light, wood-frame construction.
2. Apply the correct accessibility regulations to a given project.
3. Calculate actual and allowable stresses.

| Required Courses | | Units |
|------------------|---|-------|
| ARCH 12 | Architectural Practice I | 3 |
| ARCH 22 | Architectural Practice II | 3 |
| ARCH 32 | Statics and Strength of Materials | 3 |

| | | |
|---------|----------------------------------|----|
| ARCH 42 | Timber and Steel Structures..... | 3 |
| | Total | 12 |

BASIC ARCHITECTURAL DESIGN – Major # *new program, Fall 2013*

This curriculum is designed to provide beginning knowledge and skills to individuals in the areas of architectural programming, design and presentation.

Certificate

Student Learning Outcomes:

1. Use various drawing systems to represent three dimensional objects/space on two dimensional surfaces.
2. Identify and express the essence of a design problem within the context of an architectural program.
3. Design and complete an educational portfolio.

| Required Courses | | Units |
|-------------------------|--|--------------|
| ARCH 10 | Architectural Design and Visualization I | 3 |
| ARCH 20 | Architectural Design and Visualization II | 3 |
| ARCH 30 | Architectural Design and Visualization III | 3 |
| ARCH 40 | Architectural Design and Visualization IV | 3 |
| | Total | 12 |

BASIC ARCHITECTURAL OFFICE PRACTICE – Major # *new program, Fall 2013*

This curriculum is designed to provide beginning knowledge and skills to individuals in the area of architectural practice.

Certificate

Student Learning Outcomes:

1. Compare different careers in architecture and related fields.
2. Compare and contrast the compatibility of different materials, their application, cost and availability.
3. Analyze buildings for specific, detailed compliance with building codes.
4. Compare, contrast, and write different types of construction specifications.

| Required Courses | | Units |
|-------------------------|--|--------------|
| ARCH 11 | Introduction to Architecture and Environmental Design..... | 2 |
| ARCH 21 | Materials of Construction..... | 3 |
| ARCH 31 | Building Codes | 3 |
| ARCH 41A | Office Practices | 3 |
| | Total | 11 |

BASIC ARCHITECTURE SKILLS 1 – Major # *new program, Fall 2013*

This curriculum is designed to provide beginning knowledge and skills to individuals in the areas of architectural design, practice and CAD.

Certificate

Student Learning Outcomes:

1. Use problem solving and visualization techniques to synthesize solutions to specific design and drawing problems.
2. Compare different careers in architecture and related fields.
3. Demonstrate through drawing the technical elements of light, woodframe construction.
4. Construct basic 3D objects and stretch, extrude, and modify those objects using a computer aided drafting or computer aided modeling program.

| Required Courses | | Units |
|-------------------------|--|--------------|
| ARCH 10 | Architectural Design and Visualization I | 3 |
| ARCH 11 | Introduction to Architecture and Environmental Design..... | 2 |
| ARCH 12 | Architectural Practices I..... | 3 |
| ARCH 14 | Digital Tools for Architects..... | 2 |
| | Total | 10 |

BASIC ARCHITECTURE SKILLS 2 – Major # *new program, Fall 2013*

Continuation of the Basic Architecture Skills 1 certificate. This curriculum is designed to further the knowledge and skills to individuals in the areas of architectural design, practice and CAD.

Certificate

Student Learning Outcomes:

1. Properly use color, its properties and relationships.

2. Compare and contrast the relationship of cost and availability of materials.
3. Complete minimal contract documents for a light, commercial building.
4. Draw exterior elevations and sections using a specified computer aided drafting or building information modeling program.

| Required Courses | | Units |
|-------------------------|---|--------------|
| ARCH 20 | Architectural Design and Visualization II | 3 |
| ARCH 21 | Materials of Construction..... | 3 |
| ARCH 22 | Architectural Practice II | 3 |
| ARCH 24 | Building Information Modeling | 3 |
| | | Total 12 |

BASIC DIGITAL ARCHITECTURE – Major #

new program, Fall 2013

This curriculum is designed to provide beginning knowledge and skills to individuals in the areas of digital architecture tools including 3D computer modeling and presentation.

Certificate

Student Learning Outcomes:

1. Construct basic 3D objects and stretch, extrude, and modify those objects using a computer aided drafting or computer aided modeling program.
2. Apply materials, shade and shadow to a 3D model using a computer aided drafting or computer aided modeling program.
3. Draw a floor plan, exterior elevations and sections using a computer aided drafting or building information modeling program.
4. Create photorealistic and non-photorealistic images using a computer aided modeling or building information modeling program.

| Required Courses | | Units |
|-------------------------|-------------------------------------|--------------|
| ARCH 14 | Digital Tools for Architects..... | 2 |
| ARCH 24 | Building Information Modeling | 3 |
| ARCH 34 | Digital Rendering..... | 3 |
| | | Total 8 |

AUTOMOTIVE COLLISION REPAIR TECHNOLOGY

AUTOMOTIVE COLLISION REPAIR TECHNOLOGY – Major #8071

revised program, Spring 2013

Training in this field is designed to prepare the student for employment as an advanced apprentice trainee in body repairing, reconstruction finishing.

Associate in Science Degree and Certificate of Achievement

Student Learning Outcomes:

1. Safely work with hazardous materials and equipment.
2. Demonstrate the use of hand, air, electric and hydraulic powered tools.
3. Straighten and fill damaged sheet metal.
4. Mix and apply body fillers, puttys and plastic repair systems.
5. Identify body styles and frame configurations.
6. Service compressed air supply equipment

FIRST YEAR

| First Semester | | Units |
|-----------------------|--|--------------|
| ACRT 151 | Basic ACR | 9 |
| AT 21 | Occupational Safety and Health | 2 |
| WELD 2A | Introduction to Welding Technology | 6 |
| | | Total 17 |

Second Semester

| | | Units |
|----------|------------------------------|--------------|
| ACRT 153 | Advanced ACR | 9 |
| AT 11 | Basic Electricity | 3 |
| AT 130 | Industrial Mathematics | 3 |
| | | Total 15 |

SECOND YEAR

| First Semester | | Units |
|-----------------------|---------------------------------------|--------------|
| AT 10 | Technical Computer Applications | 3 |
| AT 131 | Technical Report Writing | 3 |
| | | Total 6 |

| Second Semester | | Units |
|------------------------|--|--------------|
| AT 40 | Preparing for Employment Opportunities | 3 |
| AT 120 | Industrial Science | 3 |
| | | Total 6 |

Recommended Electives: ACRT 155, AUTOT 19, 54, 282A

Note: Associate degree requirements are listed on page 33.

AUTOMOTIVE COLLISION REPAIR TECHNOLOGY – Major # *new program, Spring 2013*

Designed for students who wish to attend the Automotive Collision Course and go straight into the work force.

Certificate

Student Learning Outcome:

1. Student will have the entry level skills needed for employment in an Automotive Collision Repair Facility.

| Complete the following courses: | | Units |
|--|--|--------------|
| ACRT 153 | Advanced ACR | 9 |
| WELD 2A | Introduction to Welding Technology | 6 |
| | | Total 15 |

AUTOMOTIVE TECHNOLOGY

AUTOMOTIVE TECHNOLOGY – Major #8051 *revised program, Spring 2013*

Satisfactory completion of this curriculum prepares the student for entry-level employment as a skilled technician in the automotive service and repair industry. Students will perform actual service and repair procedures in the automotive laboratory. This curriculum has been certified by the National Automotive Technicians Education Foundation (NATEF).

Associate in Science Degree

Student Learning Outcomes:

1. Students will create a diagnostic path appropriate for a given system to industry standards.
2. Student will demonstrate the appropriate repair procedure for a given system to industry standards.

FIRST YEAR

| First Semester | | Units |
|-----------------------|---|--------------|
| AUTOT 9 * | Automotive Essentials | 3 |
| AUTOT 51 + | Principles of Engine Theory and Service | 3 |
| AUTOT 51L + | Automotive Engine Laboratory | 2 |

| Second Semester | | Units |
|------------------------|---------------------------------------|--------------|
| AUTOT 52 | Automotive Electrical Systems | 5 |
| AUTOT 53 | Engine Performance | 5 |
| AT 10 | Technical Computer Applications | 3 |
| AT 21 | Occupational Safety and Health | 2 |

| Third Semester | | Units |
|-----------------------|--|--------------|
| AUTOT 55 | Power Trains: Transmissions/Transaxles, Differentials, and Driveaxles | 6 |
| AUTOT 57 | Automotive Heating, Ventilation, Air Conditioning, and Advanced Electronics | 5 |
| AT 40 | Preparing for Employment Opportunities | 3 |

SECOND YEAR

| First Semester | | Units |
|-----------------------|---|--------------|
| AUTOT 19 | Work Experience (Cooperative), Occupational | 4 |
| MATH 102 | Plane Geometry | 3 |

| Second Semester | | Units |
|------------------------|---|--------------|
| AUTOT 19 | Work Experience (Cooperative), Occupational | 4 |

| | | |
|----------|---|---|
| AUTOT 54 | Suspension, Steering, and Wheel Alignment | 5 |
| AUTOT 56 | Automotive Braking Systems | 5 |

| | | |
|-----------------------|---|--------------|
| Third Semester | | Units |
| AUTOT 161A | Basic Clean Air Car Course (BCACC) | 4 |
| AUTOT 161B | Advanced Clean Air Car Course (ACACC) | 2 |
| WELD 1 | Exploring Welding/Metals | 3 |
| Electives | ..... | 4 |
| | | Total 71 |

Electives from: AUTOT 58, 58A, 58B, 58C.

**High School articulation (1 year)*

+Courses offered during summer session

AUTOMOTIVE TECHNOLOGY – Major #8051

revised program, Spring 2013

Satisfactory completion of this curriculum prepares the student for entry-level employment as a skilled technician in the automotive service and repair industry. Students will perform actual service and repair procedures in the automotive laboratory. This curriculum has been certified by the National Automotive Technicians Education Foundation (NATEF).

Certificate of Achievement

Student Learning Outcomes:

1. Students will create a diagnostic path appropriate for a given system to industry standards.
2. Student will demonstrate the appropriate repair procedure for a given system to industry standards.

FIRST YEAR

| | | |
|-----------------------|--|--------------|
| First Semester | | Units |
| AT 21 | Occupational Safety and Health..... | 2 |
| AUTOT 9 * | Automotive Essentials..... | 3 |
| AUTOT 51 † | Principles of Engine Theory and Service..... | 3 |
| AUTOT 51L † | Automotive Engine Laboratory | 2 |
| AUTOT 52 | Automotive Electrical Systems | 5 |
| AUTOT 53 | Engine Performance..... | 5 |

| | | |
|------------------------|---|--------------|
| Second Semester | | Units |
| AT 10 | Technical Computer Applications..... | 3 |
| AUTOT 19 | Work Experience (Cooperative), Occupational | 8 |
| AUTOT 55 | Power Trains: Transmissions/Transaxles, Differentials, and Driveaxles | 6 |
| AUTOT 57 | Automotive Heating, Ventilation, Air Conditioning, and Advanced Electronics..... | 5 |
| AT 130 | Industrial Mathematics | 3 |
| AT 131 | Technical Report Writing..... | 3 |

SECOND YEAR

| | | |
|-----------------------|---|--------------|
| First Semester | | Units |
| AT 40 | Preparing for Employment Opportunities | 3 |
| AUTOT 19** | Work Experience (Cooperative), Occupational | 0 |
| AUTOT 54 | Suspension, Steering, and Wheel Alignment | 5 |
| AUTOT 56 | Automotive Braking Systems | 5 |

| | | |
|------------------------|---|--------------|
| Second Semester | | Units |
| AUTOT 19 ** | Work Experience (Cooperative), Occupational | 0 |
| AUTOT 161A | Basic Clean Air Car Course (BCACC)..... | 4 |
| AUTOT 161B | Advanced Clean Air Car Course (ACACC) | 2 |
| WELD 1 | Exploring Welding/Metals..... | 3 |
| Electives | ..... | 4 |

| | | |
|------------------------|--|--------------|
| Electives from: | | Units |
| AUTOT 58 | Individualized Skills Training (IST) Chassis System I Laboratory | 1 |
| AUTOT 58A | Individualized Skills Training (IST) Chassis System II Laboratory | 1 |
| AUTOT 58B | Individualized Skills Training (IST) Engine/Propulsion Systems Laboratory | 1 |

| | | |
|-----------|--|----|
| AUTOT 58C | Individualized Skills Training (IST) Power Train Systems Laboratory | 1 |
| HLTH 1 | Contemporary Health Issues | 3 |
| PHOTO 5 | Introduction to Photography | 3 |
| | Total | 74 |

*High School articulation (1 year)

†Course offered during summer session.

**Students must complete at least 8 units of work experience. AUTOT 19 may be taken in one or more semesters for total of 8 units.

CHASSIS TECHNICIAN – MAJOR #8053

revised program, Spring 2013

Satisfactory completion of this curriculum prepares the student for employment as an automotive chassis service technician.

Certificate

Student Learning Outcomes:

1. Students will create a diagnostic path appropriate for a given system to industry standards.
2. Students will recommend an appropriate repair strategy for a given system to industry standards.

**Completion of the following courses including
3 units of work experience:**

| | Units | |
|------------|---|----|
| AUTOT 19 | Work Experience (Cooperative), Occupational | 3 |
| AUTOT 282A | Suspension and Wheel Alignment..... | 3 |
| AUTOT 282B | Automotive Braking Systems..... | 3 |
| AUTOT 283B | Electrical Systems | 3 |
| AUTOT 284 | Automotive Air Conditioning..... | 3 |
| | Total | 15 |

EMISSION TECHNICIAN – MAJOR #8054

revised program, Spring 2013

Satisfactory completion of this curriculum prepares the student for employment as an emission service technician.

Certificate

Student Learning Outcomes:

1. Students will create a diagnostic path appropriate for a given system to industry standards.
2. Students will recommend an appropriate repair strategy for a given system to industry standards.

REQUIRED COURSES

| | Units | |
|------------|---|----|
| AUTOT 161A | Basic Clean Air Car Course (BCACC)..... | 4 |
| AUTOT 161B | Advanced Clean Air Car Course (ACACC) | 2 |
| AUTOT 261 | Clean Air Car – Diagnosis and Repair..... | 5 |
| AUTOT 283A | Engine Performance and Diagnosis | 3 |
| AUTOT 283B | Electrical Systems | 3 |
| | Total | 17 |

GENERAL MOTORS ASEP PROGRAM – MAJOR #805G

revised program, Spring 2013

The General Motors Automotive Service Educational Program (GM ASEP) is a two-year associate degree program. GM ASEP incorporates the most advanced automotive technical training with a strong academic foundation in math, English, electronics, analytical and technical skills. The student earns a solid education combined with invaluable work experience for hands-on learning. The National Automotive Technicians Education Foundation (NATEF) and General Motors Corporation certify this curriculum.

Seventy-four (77) units required for this Associate Degree.

Associate in Science Degree

Student Learning Outcomes:

1. Students will create a diagnostic path appropriate for a given system to industry standards.
2. Student will demonstrate the appropriate repair procedure for a given system to industry standards.

FIRST YEAR

| Fall Semester | | Units |
|----------------------|---|--------------|
| AT 10 | Technical Computer Applications..... | 3 |
| ATGM 54 | Suspension, Steering, and Wheel Alignment | 5 |
| ATGM 56 | Automotive Braking Systems | 5 |

| | | |
|-----------|-----------------------------|---|
| AUTOT 9 * | Automotive Essentials | 3 |
| MATH 102 | Plane Geometry | 3 |
| Electives | ..... | 2 |

Spring Semester

| | | |
|-------------|---|---|
| | Units | |
| ATGM 52 | Automotive Electrical Systems | 5 |
| AUTOT 19 ** | Work Experience (Cooperative), Occupational | 5 |
| ENGL 1A | Reading and Composition | 4 |
| Electives | ..... | 2 |

Summer Semester

| | | |
|-------------|---|---|
| | Units | |
| ATGM 51 | Principles of Engine Theory and Service..... | 3 |
| ATGM 51L | Automotive Engine Laboratory | 2 |
| AUTOT 19 ** | Work Experience (Cooperative), Occupational | 0 |
| Electives | ..... | 2 |

SECOND YEAR

Fall Semester

| | | |
|-------------|---|---|
| | Units | |
| ATGM 53 | Engine Performance..... | 5 |
| AUTOT 19 ** | Work Experience (Cooperative), Occupational | 5 |
| Electives | ..... | 2 |

Spring Semester

| | | |
|-------------|--|---|
| | Units | |
| ATGM 55 | Power Trains: Transmissions/Transaxles, Differentials, and Driveaxles | 6 |
| AUTOT 19 ** | Work Experience (Cooperative), Occupational | 0 |
| AUTOT 161A | Basic Clean Air Car Course (BCACC)..... | 4 |
| AUTOT 161B | Advanced Clean Air Car Course (ACACC) | 2 |
| Electives | ..... | 2 |

Summer Semester

| | | |
|-----------|---|---|
| | Units | |
| ATGM 57 | Automotive Heating, Ventilation, Air Conditioning, and Advanced Electronics..... | 5 |
| Electives | ..... | 2 |

Electives from:

| | | |
|-----------|--|----|
| | Units | |
| AUTOT 58 | Individualized Skills Training (IST) Chassis System I Laboratory | 1 |
| AUTOT 58A | Individualized Skills Training (IST) Chassis System II Laboratory | 1 |
| AUTOT 58B | Individualized Skills Training (IST) Engine/Propulsion Systems Laboratory | 1 |
| AUTOT 58C | Individualized Skills Training (IST) Power Train Systems Laboratory | 1 |
| HLTH 1 | Contemporary Health Issues..... | 3 |
| PHOTO 5 | Introduction to Photography | 3 |
| | Total | 77 |

*High School articulation (1 year)

**Students must complete at least 10 units of work experience.

BILINGUAL/CROSSCULTURAL SPANISH-ENGLISH MAJOR

BILINGUAL/CROSSCULTURAL SPANISH-ENGLISH MAJOR – MAJOR #7690

revised program, Fall 2013

This curriculum is designed to prepare students for entry into a variety of career options requiring expertise in bilingual/cross-cultural skills.

Certificate

Student Learning Outcomes:

1. Recognize and understand cross-cultural attitudes and behaviors affecting Latinos in the USA.
2. Use (apply) English and Spanish for both academic purposes and communicative tasks.

CORE COURSES

| | | |
|------------|---|---|
| | Units | |
| CLS/SOC 14 | Sociology of the Mexican American Community | 3 |
| CLS 17 | Beginning Mexican Folk Dance, or | |
| MUS 3 | Music Fundamentals, or | |

| | | |
|----------|--|-------|
| MUS 20 | Beginning Piano: Level I, or | |
| MUS 27 | Beginning Guitar: Level I | 2 - 4 |
| LAST 10 | Latin American Literature, or | |
| CLS 21 | Chicano Literature, or | |
| ENGL 1B | Introduction to the Study of Literature, or | |
| ENGL 44A | World Literature to the Renaissance, or | |
| ENGL 44B | World Literature since the Renaissance, or | |
| ENGL 45 | Contemporary World Literature, or | |
| ENGL 46A | English Literature to 1800, or | |
| ENGL 46B | English Literature from 1800 to the Present, or | |
| ENGL 48A | Introduction to American Literature to World War I, or | |
| ENGL 48B | Introduction to American Literature World War I to the Present..... | 3 |
| LING 10 | Introduction to Language..... | 3 |
| SPAN 3 | Intermediate Spanish, or | |
| SPAN 3NS | Intermediate Spanish for Spanish Speakers | 5 |
| SPAN 4 | High-Intermediate Spanish, or | |
| SPAN 4NS | High-Intermediate Spanish for Spanish Speakers..... | 5 |
| | Total 21 – 23 | |

Note: Associate Degree requirements change Fall 2009. Refer to page 33 for details.
English 3 recommended. Required for full General Education Certification.

BUILDING SAFETY AND CODE ADMINISTRATION

BUILDING SAFETY AND CODE ADMINISTRATION – MAJOR #8220

revised program, Spring 2013

The Building Safety and Code degree program (major 8220) is designed to prepare students for employment with building departments, other governmental agencies, and private inspection companies.

Associate in Science Degree

Student Learning Outcomes:

1. Interpret and apply architectural and engineering drawings in performance of building inspections.
2. Identify various jobs and associated work performed in a building department to gain employment.
3. Identify different building materials and methods of construction currently used in the building industry.
4. Articulate ideas using the technical and formal vocabulary of architecture and construction.

Required Core Courses

| | Units | |
|---------|--|---|
| ARCH 12 | Architectural Practice I | 3 |
| ARCH 21 | Materials of Construction..... | 3 |
| AT 10 | Technical Computer Applications..... | 3 |
| AT 40 | Preparing for Employment Opportunities | 3 |
| BSCA 10 | Building Codes | 3 |
| BSCA 12 | Plans Examining | 3 |
| BSCA 14 | Building Inspection | 3 |
| BSCA 18 | California Disabled Access Regulations..... | 3 |
| | Total 24 | |

Electives - Select Minimum 6 units

| | Units | |
|---------|---|---|
| ARCH 32 | Statics and Strength of Materials | 3 |
| BSCA 15 | Plumbing Code and Inspection | 3 |
| BSCA 16 | Mechanical Code and Inspection | 3 |
| BSCA 17 | National Electrical Code Part 1 | 3 |
| BSCA 20 | Advanced Building Code | 3 |
| BSCA 22 | Advanced Plans Examining..... | 3 |
| BSCA 24 | Advanced Building Inspection | 3 |
| | Total 30 | |

BUILDING SAFETY AND CODE ADMINISTRATION – MAJOR #8220

revised program, Fall 2013

The Building Safety and Code degree program (major 8220) is designed to prepare students for employment with building departments, other governmental agencies, and private inspection companies.

Associate in Science Degree

Student Learning Outcomes:

1. Interpret and apply architectural and engineering drawings in performance of building inspections.
2. Identify various jobs and associated work performed in a building department to gain employment.

3. Identify different building materials and methods of construction currently used in the building industry.
4. Articulate ideas using the technical and formal vocabulary of architecture and construction.
5. Demonstrate basic knowledge of computer applications including proper use of appropriate technologies, written reports and presentations.

| Required Core Courses | | Units |
|------------------------------|--|--------------|
| ARCH 12 | Architectural Practice I | 3 |
| ARCH 21 | Materials of Construction..... | 3 |
| AT 10 | Technical Computer Applications..... | 3 |
| AT 40 | Preparing for Employment Opportunities | 3 |
| BSCA 10 | Building Codes | 3 |
| BSCA 12 | Plans Examining | 3 |
| BSCA 14 | Building Inspection | 3 |
| BSCA 18 | California Disabled Access Regulations..... | 3 |
| | | Total 24 |

| Electives - Select Minimum 6 units | | Units |
|---|--|--------------|
| ARCH 32 | Statics and Strength of Materials | 3 |
| AT 40 | Preparing for Employment Opportunities | 3 |
| BSCA 15 | Plumbing Code and Inspection | 3 |
| BSCA 16 | Mechanical Code and Inspection | 3 |
| BSCA 17 | National Electrical Code Part 1 | 3 |
| BSCA 20 | Advanced Building Code..... | 3 |
| BSCA 22 | Advanced Plans Examining..... | 3 |
| BSCA 24 | Advanced Building Inspection | 3 |
| | | Total 30 |

BUILDING SAFETY AND CODE ADMINISTRATION – MAJOR #8220 *revised program, Spring 2013*
 This curriculum is designed to prepare students for employment with building departments, other government agencies, and private inspection companies.

Certificate of Achievement

1. Interpret and apply architectural and engineering drawings in performance of building inspections.
2. Identify various jobs and associated work performed in a building department to gain employment.
3. Identify different building materials and methods of construction currently used in the building industry.
4. Articulate ideas using the technical and formal vocabulary of architecture and construction.

| Required Core Courses | | Units |
|------------------------------|---|--------------|
| ARCH 12 | Architectural Practice I | 3 |
| ARCH 21 | Materials of Construction..... | 3 |
| AT 10 | Technical Computer Applications..... | 3 |
| AT 130 | Industrial Mathematics | 3 |
| BSCA 10 | Building Codes | 3 |
| BSCA 12 | Plans Examining | 3 |
| BSCA 14 | Building Inspection | 3 |
| BSCA 18 | California Disabled Access Regulations..... | 3 |
| | | Total 24 |

| Electives - Select Minimum 6 units | | Units |
|---|---|--------------|
| ARCH 32 | Statics and Strength of Materials | 3 |
| BSCA 15 | Plumbing Code and Inspection | 3 |
| BSCA 16 | Mechanical Code and Inspection | 3 |
| BSCA 17 | National Electrical Code Part 1 | 3 |
| BSCA 20 | Advanced Building Code..... | 3 |
| BSCA 22 | Advanced Plans Examining..... | 3 |
| BSCA 24 | Advanced Building Inspection | 3 |
| | | Total 30 |

BUILDING SAFETY AND CODE ADMINISTRATION – MAJOR #8220 *revised program, Fall 2013*
 This curriculum is designed to prepare students for employment with building departments, other government agencies, and private inspection companies.

Certificate of Achievement

1. Interpret and apply architectural and engineering drawings in performance of building inspections.
2. Identify various jobs and associated work performed in a building department to gain employment.

3. Identify different building materials and methods of construction currently used in the building industry.
4. Articulate ideas using the technical and formal vocabulary of architecture and construction.
5. Demonstrate basic knowledge of computer applications including proper use of appropriate technologies, written reports and presentations.

| Required Core Courses | | Units |
|------------------------------|---|--------------|
| ARCH 12 | Architectural Practice I | 3 |
| ARCH 21 | Materials of Construction..... | 3 |
| AT 10 | Technical Computer Applications..... | 3 |
| AT 130 | Industrial Mathematics | 3 |
| BSCA 10 | Building Codes | 3 |
| BSCA 12 | Plans Examining | 3 |
| BSCA 14 | Building Inspection | 3 |
| BSCA 18 | California Disabled Access Regulations..... | 3 |
| | | Total 24 |

| Electives - Select Minimum 6 units | | Units |
|---|--|--------------|
| ARCH 32 | Statics and Strength of Materials | 3 |
| AT 40 | Preparing for Employment Opportunities | 3 |
| BSCA 15 | Plumbing Code and Inspection | 3 |
| BSCA 16 | Mechanical Code and Inspection | 3 |
| BSCA 17 | National Electrical Code Part 1 | 3 |
| BSCA 20 | Advanced Building Code | 3 |
| BSCA 22 | Advanced Plans Examining..... | 3 |
| BSCA 24 | Advanced Building Inspection | 3 |
| | | Total 30 |

BUSINESS ADMINISTRATION

BUSINESS ADMINISTRATION Major #2050

revised program, Fall 2013

Recommended transfer program for California State University, Fresno. The following courses are required for the Associate in Arts degree.

Associate in Arts Degree

Student Learning Outcomes:

1. Demonstrate the ability to create and analyze the four basic financial statements and budgets and recognize and evaluate opportunity and risk.
2. Assist in the formulation and implementation of a corporate strategy.
3. Demonstrate the appropriate application of ethics, laws and soft skills required for the work environment including customer service, teambuilding, conflict management, time management, communication, and professional behavior.
4. Demonstrate the appropriate application of management theory relating to the functions of planning, organizing, leading and controlling for established businesses and entrepreneurial ventures.

FIRST YEAR

| First Semester | | Units |
|-----------------------|---|--------------|
| **BA 10/10H | Introduction to Business, or Honors Introduction to Business | 3 |
| ***BA 30 | Personal Finance | 4 |
| | | Total 7 |

| Second Semester | | Units |
|------------------------|---|--------------|
| *BA 18 | Business and the Legal Environment..... | 4 |
| *CIT 15 | Computer Concepts | 3 |
| | | Total 7 |

SECOND YEAR

| First Semester | | Units |
|-----------------------|---|--------------|
| *ACCTG 4A/4AH | Financial Accounting, or Honors Financial Accounting..... | 4 |
| ****BA 20 | Law and the Legal System | 3 |
| *ECON 50/50H | Introduction to Macroeconomics, or Honors Introduction to Macroeconomics | 3 |
| | | Total 10 |

| Second Semester | Units |
|--|--------------|
| *ACCTG 4B/4BH Managerial Accounting, or Honors Managerial Accounting | 4 |
| *DS 23 Business Statistics | 4 |
| *ECON 40/40H Introduction to Microeconomics, or Honors Introduction to Microeconomics | 3 |
| | Total 11 |

Note: Associate degree requirements are listed on page ____.

*CSU, Fresno transfer course required to enter the School of Business.

**Transfers as an elective.

***Satisfies CSU, Fresno GE Area E.

****Satisfies CSUF, Fresno GE, D.8, and FCC's GE, B.2.

ENTREPRENEURIAL VENTURES Major #2041

revised program, Fall 2013

This certificate is designed to provide skilled artisans and other skilled individuals with the necessary knowledge to launch a business and/or market their creations. These courses are focused on the start-up phases of a business.

Certificate

Student Learning Outcomes:

1. Mastery of course content sufficient to complete a business plan.
2. Appropriate application of management theory relating to the functions of planning, organizing, leading and controlling.
3. Ability to create and analyze the four basic financial statements and budgets and recognize and evaluate opportunity and risk.
4. Formulate and implement business strategy as applied to e-shop.
5. Demonstrate basic workplace written, verbal, and non-verbal communication skills required for the workplace, including the proper use of appropriate technologies, written reports, and formal presentations.
6. Manage new venture launch and continuing entrepreneurial operations.

| Required Courses | Units |
|--|--------------|
| BA 50 Business Concepts..... | 2 |
| BA 51 Business Planning and New Venture Launch | 1.5 |
| BA 52 Introduction to Entrepreneurship | 3 |
| | Total 6.5 |

BUSINESS & TECHNOLOGY

LEGAL OFFICE PROFESSIONAL Major #2103

revised program, Spring 2013

Training is designed to prepare students for employment in a legal office environment. Students may earn more than one certificate in addition to the Associate in Science degree and are required to earn grades of "C" or better in the Office Professional I and emphasis courses.

Associate in Science Degree

Student Learning Outcomes:

1. Achieve a satisfactory evaluation in a work experience setting.
2. Demonstrate the advanced features of MS Word by creating documents with special features such as charts, headers and footers, AutoCorrect, Quick Parts, fields, themes, styles, references, specialized tables and indexes, sharing and protecting documents.
3. Describe the basic organizational structure, operational principles and administrative processes associated with the law office environment.

| Required Core Courses (Office Professional I) | Units |
|--|--------------|
| BT 1 Computer Document Processing I | 3 |
| BT 2 Computer Document Processing II..... | 3 |
| BT 4 Ten-Key Calculation | 2 |
| BT 6 Records Management..... | 3 |
| BT 9 Computer Applications I | 4 |
| BT 11 Today's Office | 3 |
| BT 23 Job Search and Workplace Skills..... | 3 |
| BT 112 Business English..... | 3 |
| BT 115 Refresher Math | 3 |
| BT 122 Typing Skillbuilding..... | 0.5 |
| BT 123 Ten-Key Skillbuilding..... | 0.5 |

| Emphasis Area | Units |
|---|----------|
| BT 19 Work Experience (Cooperation), Occupational | 2 |
| BT 28 Microsoft Word I | 2 |
| BT 29 Microsoft Word II | 2 |
| BT 140/ | |
| PLEGAL 156 Legal Document Processing | 3 |
| PLEGAL 7 Law Offices Practices..... | 3 |
| PLEGAL 14 Law Office Computing..... | 3 |
| | Total 43 |

Note: Requires additional general education units for AS degree.

LEGAL OFFICE PROFESSIONAL Major #2103

revised program, Spring 2013

Training is designed to prepare students for employment in a legal office environment. Students may earn more than one certificate and are required to earn grades of "C" or better in the Office Professional I and emphasis courses.

Certificate of Achievement

Student Learning Outcomes:

1. Achieve a satisfactory evaluation in a work experience setting.
2. Demonstrate the advanced features of MS Word by creating documents with special features such as charts, headers and footers, AutoCorrect, Quick Parts, fields, themes, styles, references, specialized tables and indexes, sharing and protecting documents.
3. Describe the basic organizational structure, operational principles and administrative processes associated with the law office environment.

| Required Core Courses (Office Professional I) | Units |
|---|-------|
| BT 1 Computer Document Processing I | 3 |
| BT 2 Computer Document Processing II..... | 3 |
| BT 4 Ten-Key Calculation | 2 |
| BT 6 Records Management | 3 |
| BT 9 Computer Applications I | 4 |
| BT 11 Today's Office | 3 |
| BT 23 Job Search and Workplace Skills..... | 3 |
| BT 112 Business English | 3 |
| BT 115 Refresher Math | 3 |
| BT 122 Typing Skillbuilding..... | 0.5 |
| BT 123 Ten-Key Skillbuilding..... | 0.5 |

| Emphasis Area | Units |
|---|----------|
| BT 19 Work Experience (Cooperation), Occupational 2 | |
| BT 28 Microsoft Word I 2 | |
| BT 29 Microsoft Word II 2 | |
| BT 140/ | |
| PLEGAL 156 Legal Document Processing | 3 |
| PLEGAL 7 Law Offices Practices..... | 3 |
| PLEGAL 14 Law Office Computing..... | 3 |
| | Total 43 |

MEDICAL BILLING ASSISTANT – Major #2242

revised program, Spring 2013

This certificate option is designed to meet the training needs for qualified entry level employment. Students are required to earn grades of "C" or better in all courses.

Certificate of Achievement

Student Learning Outcomes:

1. Achieve a satisfactory evaluation in a work experience setting.
2. Type a minimum of 25 words per minute.
3. Key a minimum of 110 correct strokes per minute on a ten-key calculator.
4. Input data accurately into a medical computer management system.

| Courses | Units |
|---|-------|
| BT 1 Computer Document Processing I | 3 |
| BT 19 Work Experience (Cooperation), Occupational | 3 |
| BT 23 Job Search and Workplace Skills..... | 3 |
| BT 27 Microsoft Outlook and E-Mail | 2 |

| | | |
|--------|---------------------------------------|----|
| BT 43 | Medical Office Vocabulary..... | 1 |
| BT 116 | Spelling and Vocabulary Building..... | 2 |
| BT 147 | Medical Management Software..... | 2 |
| BT 148 | Medical Insurance Forms..... | 3 |
| BT 240 | Legal Issues in Medical Billing..... | 1 |
| BT 270 | Business Math and Ten Key..... | 2 |
| BT 271 | Business Grammar Fundamentals..... | 2 |
| BT 280 | Basic Office Procedures..... | 2 |
| | Total | 26 |

MEDICAL BILLING ASSISTANT – Major #2242

revised program, Fall 2013

This certificate option is designed to meet the training needs for qualified entry level employment. Students are required to earn grades of “C” or better in all courses.

Certificate of Achievement

Student Learning Outcomes:

1. Achieve a satisfactory evaluation in a work experience setting.
2. Type a minimum of 25 words per minute.
3. Key a minimum of 110 correct strokes per minute on a ten-key calculator.
4. Input data accurately into a medical computer management system.

| Courses | Units | |
|--------------|--|----|
| BT 1 | Computer Document Processing I..... | 3 |
| BT 19 | Work Experience (Cooperation), Occupational..... | 3 |
| BT 23 | Job Search and Workplace Skills..... | 3 |
| BT 24/CIT 31 | Beginning Excel..... | 1 |
| BT 27 | Microsoft Outlook and E-Mail..... | 2 |
| BT 43 | Medical Office Vocabulary..... | 1 |
| BT 116 | Spelling and Vocabulary Building..... | 2 |
| BT 147 | Medical Management Software..... | 2 |
| BT 148 | Medical Insurance Forms..... | 3 |
| BT 270 | Business Math and Ten Key..... | 2 |
| BT 271 | Business Grammar Fundamentals..... | 2 |
| BT 280 | Basic Office Procedures..... | 2 |
| | Total | 26 |

CHICANO-LATINO STUDIES

CHICANO-LATINO STUDIES – Major #7661

revised program, Fall 2013

This program is designed to focus on Mexican-American history, heritage, and culture. Chicano-Latino Studies offers a broad interdisciplinary approach to the study of society and culture. The curriculum provides students with the strong academic background helpful to those planning careers in law, health, education, social work, business, and industry. Chicano-Latino Studies provides the knowledge and skills necessary to help students understand, communicate, and appreciate the rich cultural diversity in American society through the study of the Mexican-American and broader Latino community.

Associate in Arts Degree

Student Learning Outcomes:

1. Students will demonstrate critical thinking and problem solving skills across disciplines as they relate to the Chicano-Latino community.
2. Students will demonstrate competency in oral, written, and research skills.
3. Students will demonstrate an understanding of, and an ability to critically analyze and interpret, cultural expressions of Chicanos and Latinos.
4. Students will acquire a comprehensive knowledge and understanding of Chicano-Latino history, culture, arts, and socio-political issues.
5. Students will demonstrate a commitment to active citizenship, and develop leadership skills and an understanding of social justice principles and their application in order to promote positive social change in the Chicano-Latino community and the broader society.

Associate in Arts Degree

| REQUIRED CORE COURSES | Units | |
|-----------------------|--|---|
| CLS 11 | Introduction to Chicano-Latino Studies..... | 3 |
| CLS 12 | Mexican American History..... | 3 |
| CLS/SOC 14 | Sociology of the Mexican American Community..... | 3 |
| CLS 21 | Chicano Literature..... | 3 |

Total 12

| Course Options : Select 8 Units | | Units |
|--|--|--------------|
| CLS 13 | Politics and the Chicano-Latino Community | 3 |
| CLS 17 | Beginning Mexican Folk Dance | 4 |
| CLS 18 | Latin Jazz Ensemble | 2 |
| CLS 20 | Chicano Art | 3 |
| CLS 22 | Pre-Columbian Art..... | 3 |
| CLS/WSTS 24 | La Chicana and Latina | 3 |
| CLS 27 | Advanced Mexican Folk Dance | 4 |
| CLS/ANTHRO 28 | Ancient Mexico | 3 |
| CLS/HIST 29 | History of Mexico, Colonial to Contemporary Period..... | 3 |
| CLS 30 | The Mexican American Family: Social and Psychological Perspectives..... | 3 |
| CLS 33 | Community Leadership | 3 |
| AMST 10 | American Pluralism: A Search for Common Ground in a Multicultural Society | 3 |

Recommended Electives: Students are encouraged to include Spanish classes as part of their college program.

Note: An associate in arts degree will be awarded to the candidate who successfully completes a total of 60 units. The 60 units must include associate degree requirements and 20 units of course work as listed above. Associate degree requirements are listed in the Graduation Requirements section of this catalog. General Education requirements for transfer certification are listed in the Transfer Requirements section of this catalog.

CHILD DEVELOPEMENT

EARLY CHILDHOOD EDUCATION FOR TRANSFER– Major #5605T

correction

COMMUNICATION

COMMUNICATION FOR TRANSFER– Major #5432T

correction

COMPUTER AIDED DRAFTING AND DESIGN

COMPUTER AIDED DRAFTING AND DESIGN – Major #3051

revised program, Spring 2013

The field of drafting is one, which serves a wide and varied number of vocations, professions, and industries. The computer aided drafting and design program directs its courses and training along practical lines as demanded by industry so that students, upon completion of their training, are better qualified to obtain employment in CADD or related occupations.

Associate in Science Degree and Certificate of Achievement

Student Learning Outcomes:

1. In an applied setting, given instructions, demonstrations, media presentations and hands-on projects the student will be able to create a portfolio representing their abilities to industry standards as determined by the instructor.
2. In an applied setting, given instructions, demonstrations, media presentations and hands-on projects the student will be able to create a presentation model from a 3D assembly using various CAD systems to industry standards as determined by the instructor.

FIRST YEAR

| First Semester | | Units |
|-----------------------|-------------------------------|--------------|
| CADD 14 | 2D CAD I | 3 |
| CADD 16 | 3D Solid Modeling I | 3 |
| DRAFT 12 | Drafting Practices | 3 |
| DRAFT 160 | Mathematics of Drafting | 3 |
| | | Total 12 |

Second Semester

| | | Units |
|----------|--------------------------------------|--------------|
| AT 10 | Technical Computer Applications..... | 3 |
| CADD 22 | Mechanical Drawing I..... | 3 |
| CADD 24 | 2D CAD II | 3 |
| CADD 26A | 3D Solid Modeling II | 3 |
| CADD 28 | Rapid Prototyping I..... | 3 |
| | | Total 15 |

SECOND YEAR

| First Semester | | Units |
|-----------------------|--------------------------------|--------------|
| AT 120 | Industrial Science | 3 |
| AT 131 | Technical Report Writing | 3 |
| CADD 32 | Mechanical Drawing II | 3 |
| CADD 36A | 3D Solid Modeling III | 3 |
| | | Total 12 |

| Second Semester | | Units |
|------------------------|--|--------------|
| AT 40 | Preparing for Employment Opportunities | 3 |
| CADD 40 | Civil Drafting Applications..... | 3 |
| CADD 42 | Mechanical Drawing III | 3 |
| CAM 10 | CNC Mill Programming & Operation I..... | 7 |
| | | Total 16 |

Recommended Elective: DRAFT 19.

Note: Students planning to receive the associate in science degree must meet the associate in science degree requirements on page 33.

COMPUTER AIDED DRAFTING AND DESIGN – Major #3051 *revised program, Fall 2013*

This degree is designed for individuals seeking a career in drafting/CAD. The drafting field serves a number of vocations, professions, and industries. The courses and training are designed along practical lines as required by industry so that students, upon completion of their training, are better qualified to obtain employment in drafting/CAD or related occupations. Additional courses are necessary to fulfill the requirements for the Associate in Science degree. Please refer to the current catalog for more information.

Associate in Science Degree

Student Learning Outcomes:

1. In an applied setting, given instructions, demonstrations, media presentations and hands-on projects the student will be able to create a portfolio representing their abilities to industry standards as determined by the instructor.
2. In an applied setting, given instructions, demonstrations, media presentations and hands-on projects the student will be able to create a presentation model from a solid model assembly using various CAD systems to industry standards as determined by the instructor.

FIRST YEAR

| First Semester | | Units |
|-----------------------|--------------------------------------|--------------|
| CADD 14 | 2D CAD I | 3 |
| CADD 16 | 3D Solid Modeling I | 3 |
| DRAFT 12 | Drafting Practices | 3 |
| AT 10 | Technical Computer Applications..... | 3 |
| | | Total 12 |

| Second Semester | | Units |
|------------------------|-----------------------------|--------------|
| CADD 22 | Mechanical Drawing I | 3 |
| CADD 24 | 2D CAD II | 3 |
| CADD 26A | 3D Solid Modeling II | 3 |
| CADD 28 | Product Development I | 3 |
| | | Total 15 |

SECOND YEAR

| First Semester | | Units |
|-----------------------|-----------------------------|--------------|
| CADD 32 | Reverse Engineering I | 3 |
| CADD 36A | 3D Solid Modeling III | 3 |
| | | Total 12 |

| Second Semester | | Units |
|------------------------|------------------------------|--------------|
| CADD 42 | Mechanical Drawing III | 3 |
| | | Total 16 |

Recommended Elective: DRAFT 19.

Note: Students planning to receive the associate in science degree must meet the associate in science degree requirements on page 35.

COMPUTER AIDED DRAFTING AND DESIGN – Major #3051

revised program, Fall 2013

This certificate is designed for individuals seeking a career in drafting/CAD. The drafting field serves a number of vocations, professions, and industries. The courses and training are designed along practical lines as required by industry so that students, upon completion of their training, are better qualified to obtain employment in drafting/CAD or related occupations.

Certificate of Achievement

Student Learning Outcomes:

1. In an applied setting, given instructions, demonstrations, media presentations and hands-on projects the student will be able to create a portfolio representing their abilities to industry standards as determined by the instructor.
2. In an applied setting, given instructions, demonstrations, media presentations and hands-on projects the student will be able to create a presentation model from a solid model assembly using various CAD systems to industry standards as determined by the instructor.

FIRST YEAR

| First Semester | | Units |
|-----------------------|---------------------------------------|--------------|
| CADD 14 | 2D CAD I | 3 |
| CADD 16 | 3D Solid Modeling I | 3 |
| DRAFT 12 | Drafting Practices | 3 |
| AT 10 | Technical Computer Applications | 3 |
| | | Total 12 |

| Second Semester | | Units |
|------------------------|-----------------------------|--------------|
| CADD 22 | Mechanical Drawing I | 3 |
| CADD 24 | 2D CAD II | 3 |
| CADD 26A | 3D Solid Modeling II | 3 |
| CADD 28 | Product Development I | 3 |
| | | Total 15 |

SECOND YEAR

| First Semester | | Units |
|-----------------------|-----------------------------|--------------|
| CADD 32 | Reverse Engineering I | 3 |
| CADD 36A | 3D Solid Modeling III | 3 |
| | | Total 12 |

| Second Semester | | Units |
|------------------------|------------------------------|--------------|
| CADD 42 | Mechanical Drawing III | 3 |
| | | Total 16 |

Recommended Elective: DRAFT 19.

2D CAD Technician – Major #

new program, Fall 2013

This certificate is designed for individuals seeking a career in drafting/CAD that utilizes 2D. The courses and training are designed to meet the requirements of many industries so that students, upon completion of their certificate, are better qualified to obtain employment in occupations requiring 2D drafting/CAD.

Certificate

Student Learning Outcomes:

1. Use orthographic projection methods to sketch the three standard views of objects.
2. Modify geometry on existing CAD drawings.
3. Create and modify symbols (blocks) in a drawing.

FIRST YEAR

| First Semester | | Units |
|-----------------------|---------------------------------------|--------------|
| AT 10 | Technical Computer Applications | 3 |
| CADD 14 | 2D CAD I | 3 |
| DRAFT 12 | Drafting Practices | 3 |
| | | Total 9 |

FIRST YEAR

| Second Semester | | Units |
|------------------------|-----------------|--------------|
| CADD 24 | 2D CAD II | 3 |
| | | Total 3 |

CAD Technician I – Major #

new program, Fall 2013

These courses provide students with the basic skills and knowledge of drafting and CAD.

Certificate

Student Learning Outcomes:

1. Use orthographic projection methods to sketch the three standard views of objects.
2. Modify geometry on existing CAD drawings.
3. Draw 2D sketches with dimensions and geometric relations used to create features.

| Required Courses | | Units |
|-------------------------|---------------------------|--------------|
| CADD 14 | 2D CAD I | 3 |
| CADD 16 | 3D Solid Modeling I | 3 |
| DRAFT 12 | Drafting Practices | 3 |
| | | Total 9 |

COMPUTER AIDED MANUFACTURING

COMPUTER AIDED MANUFACTURING – Major #8271

revised program, Spring 2013

The CAM Program is designed for students who have a strong interest in hands-on experience both in the classroom as well as in the industry. Core courses ensure students with a knowledgeable foundation to operate and setup computer numerical control machines using our Computer Aided Manufacturing laboratory. MasterCAM software is the designing software used to generate G and M codes for product prototyping. The CAM program prepares students for an entry level job as a CNC operator or as CNC programmer. The software and machines give students the most experiences possible, and help develop skills for our local manufacturing workforce.

Associate in Science Degree

Student Learning Outcomes:

1. Design geometric shapes using Mastercam software
2. Select the correct toolpaths for the manufacturing of the prototypes
3. Setup and operate Computer Numerical Control Machines

FIRST YEAR

| First Semester | | Units |
|-----------------------|---|--------------|
| AT 10 | Technical Computer Applications | 3 |
| CAM 1A | CAM & Cabinetry Operation I, or | |
| CAM 10 | CNC Mill Programming & Operation I..... | 7-13 |
| | | Total 10-16 |

| Second Semester | | Units |
|------------------------|--|--------------|
| CAM 1B | Mill and Lathe Operation II, or | |
| CAM 20 | CNC Mill Programming & Operation II..... | 7-13 |
| DRAFT 12 | Drafting Practices | 3 |
| | | Total 10-16 |

SECOND YEAR

| First Semester Units | | |
|-----------------------------|--|---------|
| AT 40 | Preparing for Employment Opportunities | 3 |
| | | Total 3 |

| Second Semester | | Units |
|------------------------|--------------------------------------|--------------|
| AT 21 | Occupational Safety and Health | 2 |
| CADD 16 | 3D Solid Modeling I | 3 |
| | | Total 5 |

Associate degree requirements are listed on page 33.

COMPUTER AIDED MANUFACTURING – Major #8271

revised program, Fall 2013

The CAM Program is designed for students who have a strong interest in hands-on experience both in the classroom as well as in the industry. Core courses ensure students with a knowledgeable foundation to operate and setup computer numerical control machines using our Computer Aided Manufacturing laboratory. MasterCAM software is the designing software used to generate G and M codes for product prototyping. The CAM program prepares students for an entry level job as a CNC operator or as CNC programmer. The software and machines give students the most experiences possible, and helps

develop skills for our local manufacturing workforce. A comprehensive set of undergraduate courses are offered for students interested in working towards the completion of proficiency awards, such as, Certificate of Achievement in CNC Operation and CAD/CAM programming.

Associate in Science Degree

Student Learning Outcomes:

1. Demonstrate the ability to interpret and apply technical information from mechanical blueprints for the process of machining.
2. Perform precision measurement on manufactured products.
3. Setup and operate Computer Numerical Control Machines.
4. Analyze and apply shop safety.
5. Demonstrate basic knowledge of computer applications.

FIRST YEAR

| First Semester | | Units |
|-----------------------|---|--------------|
| AT 10 | Technical Computer Applications | 3 |
| CAM 10 | CNC Mill Programming & Operation I..... | 7 |
| Total | | 10 |

| Second Semester | | Units |
|------------------------|--|--------------|
| CAM 20 | CNC Mill Programming & Operation II..... | 7 |
| DRAFT 12 | Drafting Practices | 3 |
| Total | | 10 |

SECOND YEAR

| First Semester Units | | |
|-----------------------------|--|---|
| AT 40 | Preparing for Employment Opportunities | 3 |
| CAM 15 | Computer Aided Machining for CAD Users | 3 |
| CAM 26 | Lathe Programming and Operation II | 3 |
| Total | | 9 |

| Second Semester | | Units |
|------------------------|---|--------------|
| AT 21 | Occupational Safety and Health | 2 |
| CADD 16 | 3D Solid Modeling I | 3 |
| CAM 25 | CNC Operation and Setup for CAD Users | 3 |
| Total | | 7 |

Associate degree requirements are listed on page 33.

COMPUTER AIDED MANUFACTURING – Major #8271

revised program, Spring 2013

The CAM Program is designed for students who have a strong interest in hands-on experience both in the classroom as well as in the industry. Core courses ensure students with a knowledgeable foundation to operate and setup computer numerical control machines using our Computer Aided Manufacturing laboratory. MasterCAM software is the designing software used to generate G and M codes for product prototyping. The CAM program prepares students for an entry level job as a CNC operator or as CNC programmer. The software and machines give students the most experiences possible, and help develop skills for our local manufacturing workforce.

Associate in Science Degree

Student Learning Outcomes:

1. Design geometric shapes using Mastercam software
2. Select the correct toolpaths for the manufacturing of the prototypes
3. Setup and operate Computer Numerical Control Machines

FIRST YEAR

| First Semester | | Units |
|-----------------------|---|--------------|
| AT 10 | Technical Computer Applications | 3 |
| CAM 1A | CAM & Cabinetry Operation I, or | |
| CAM 10 | CNC Mill Programming & Operation I..... | 7-13 |
| Total | | 10-16 |

| Second Semester | | Units |
|------------------------|--|--------------|
| CAM 1B | Mill And Lathe Operation II, or | |
| CAM 20 | CNC Mill Programming & Operation II..... | 7-13 |
| DRAFT 12 | Drafting Practices | 3 |
| Total | | 10-16 |

SECOND YEAR

| First Semester | | Units |
|-----------------------|--|--------------|
| AT 40 | Preparing for Employment Opportunities | 3 |
| AT 130 | Industrial Mathematics, or | |
| MATH 201 | Elementary Algebra..... | 3-5 |
| | | Total 6-8 |

| Second Semester | | Units |
|------------------------|-------------------------------------|--------------|
| AT 21 | Occupational Safety and Health..... | 2 |
| CADD 16 | 3D Solid Modeling I | 3 |
| | | Total 5 |

Associate degree requirements are listed on page 33.

COMPUTER AIDED MANUFACTURING – Major #8271

revised program, Fall 2013

The CAM Program is designed for students who have a strong interest in hands-on experience both in the classroom as well as in the industry. Core courses ensure students with a knowledgeable foundation to operate and setup computer numerical control machines using our Computer Aided Manufacturing laboratory. MasterCAM software is the designing software used to generate G and M codes for product prototyping. The CAM program prepares students for an entry level job as a CNC operator or as CNC programmer. The software and machines give students the most experiences possible, and helps develop skills for our local manufacturing workforce. A comprehensive set of undergraduate courses are offered for students interested in working towards the completion of proficiency awards, such as, Certificate of Achievement in CNC Operation and CAD/CAM programming.

Certificate of Achievement

Student Learning Outcomes:

1. Demonstrate the ability to interpret and apply technical information from mechanical blueprints for the process of machining.
2. Perform precision measurement on manufactured products.
3. Setup and operate Computer Numerical Control Machines.
4. Analyze and apply shop safety.
5. Demonstrate basic knowledge of computer applications.

FIRST YEAR

| First Semester | | Units |
|-----------------------|---|--------------|
| AT 10 | Technical Computer Applications..... | 3 |
| CAM 10 | CNC Mill Programming & Operation I..... | 7 |
| | | Total 10 |

| Second Semester | | Units |
|------------------------|--|--------------|
| CAM 20 | CNC Mill Programming & Operation II..... | 7 |
| DRAFT 12 | Drafting Practices | 3 |
| | | Total 10 |

SECOND YEAR

| First Semester Units | | |
|-----------------------------|--|-------------|
| AT 40 | Preparing for Employment Opportunities | 3 |
| AT 130 | Industrial Mathematics, or | |
| MATH 201 | Elementary Algebra..... | 3-5 |
| CAM 15 | Computer Aided Machining for CAD Users..... | 3 |
| CAM 26 | Lathe Programming and Operation II | 3 |
| | | Total 12-14 |

| Second Semester | | Units |
|------------------------|---|--------------|
| AT 21 | Occupational Safety and Health..... | 2 |
| CADD 16 | 3D Solid Modeling I | 3 |
| CAM 25 | CNC Operation and Setup for CAD Users | 3 |
| | | Total 7 |

COMPUTER INFORMATION TECHNOLOGY

COMPUTER INFORMATION SYSTEMS – Major #2701

revised program, Fall 2013

This program provides a strong academic preparation in Information Systems and Computer Science. The courses give students the fundamentals in current programming languages and a broad foundation in Business Administration. This major will prepare students for transfer as an Information Systems major to most transfer schools as well as entry-level employment as a computer programmer. Transfer students should obtain complete information on transfer requirements as they plan their program.

Certificate of Achievement

Student Learning Outcome:

- Given a business related problem, design and develop a software solution using a programming language.

FIRST YEAR

| First Semester | | Units |
|-----------------------|--|--------------|
| ACCTG 4A/4AH | Financial Accounting, or Honors Financial Accounting..... | 4 |
| BA 28 | E-Law and Ethics | 3 |
| CIT 15 | Computer Concepts | 3 |
| | | Total 10 |

| Second Semester | | Units |
|------------------------|---|--------------|
| ACCTG 4B/4BH | Managerial Accounting, or Honors Managerial Accounting | 4 |
| BA 18 | Business and the Legal Environment..... | 4 |
| CIT 60 | Beginning Visual Basic..... | 3 |
| | | Total 11 |

SECOND YEAR

| First Semester | | Units |
|-----------------------|---|--------------|
| CIT 63 | Beginning Java Programming, or | |
| CIT 66 | Beginning C++ Programming | 4 |
| DS 21 | Finite Mathematics | 3 |
| ECON 50/50H | Introduction to Macroeconomics, or Honors Introduction to Macroeconomics | 3 |
| | | Total 10 |

| Second Semester | | Units |
|------------------------|---|--------------|
| CIT 64 | Advanced Java Programming, or | |
| CIT 67 | Advanced C++ Programming, or | |
| CIT 68 | Advanced Programming Applications, or | |
| CIT 69 | iOS Programming Applications | 4 |
| DS 23 | Business Statistics | 4 |
| ECON 40/40H | Introduction to Microeconomics, or Honors Introduction to Microeconomics | 3 |
| | | Total 11 |

Note: Requires additional general education units for AS degree.

PREPARATION IN MICROSOFT OFFICE – Major #2710

revised program, Spring 2013

This certificate option is designed to assist students pursuing Microsoft Office Specialist (MOS) certification.

Certificate

Student Learning Outcomes:

- Given a business scenario, select and use an appropriate application program to create a solution addressing the scenario.
- Given a Microsoft Office related software problem, troubleshoot, identify, research, and provide assistance to users.

| First Semester | | Units |
|-----------------------|------------------------------------|--------------|
| BT 27 | Microsoft Outlook and E-Mail | 2 |
| BT 28 | Microsoft Word I | 2 |
| BT 29 | Microsoft Word II | 2 |
| CIT 20 | Microsoft Office | 3 |
| CIT 29 | PowerPoint..... | 1 |
| | | Total 10 |

| Second Semester | | Units |
|------------------------|--------------------------------|--------------|
| CIT 23 | Spreadsheet Fundamentals | 2 |
| CIT 24 | Advanced Spreadsheets | 2 |
| CIT 26 | Database Fundamentals | 2 |
| CIT 27 | Advanced Database | 2 |
| | | Total 8 |

Note: Courses in the program have CIT 12 or CIT 15 as prerequisites.

MICROCOMPUTER SOFTWARE SPECIALIST – Major #2705

program revised, Spring 2013

Designed for the nontransfer student leading to employment as a microcomputer software specialist or similar computer specialist. Completing the program with the college graduation requirements leads to an AS degree; without the graduation requirements, student is eligible for a certificate of achievement.

Associate in Science and Certificate of Achievement

Student Learning Outcomes:

1. Given a computer related application software problem, troubleshoot, identify, research, and (if possible) fix the problem.
2. Install and update software.
3. Given a business scenario, select and use an appropriate program to create a file, database, document, macro and/or program to obtain a solution addressing the scenario.

FIRST YEAR

| First Semester | Units |
|-------------------------------------|-----------------|
| ACCTG 4A Financial Accounting | 4 |
| BA 28 E-Law and Ethics | 3 |
| BT 106 Computer Keyboarding | 1.5 |
| CIT 15 Computer Concepts | 3 |
| MATH 201 * Elementary Algebra | 0 - 5 |
| | Total 11.5-16.5 |

Second Semester Units

| | |
|--------------------------------------|---------|
| CIT 17 Windows Vista Basics | 2 |
| CIT 20 Microsoft Office | 3 |
| CIT 80 Internet Basics | 2 |
| CIT 81 World Wide Web Research | 2 |
| | Total 9 |

SECOND YEAR

| First Semester | Units |
|-------------------------------------|--------------|
| CIT 29 PowerPoint | 1 |
| CIT 45 Data Communications | 3 |
| CIT 60 Beginning Visual Basic | 3 |
| | Total 7 |

Second Semester

| | Units |
|--|--------------|
| CIT 19 Work Experience (Cooperative), Occupational | 2 |
| CIT 21 Advanced Microsoft Office | 3 |
| | Total 5 |

Recommended electives: CIT 68, CIT 260

*If needed.

Note: Requires additional general education units for AS degree.

CONSTRUCTION

CONSTRUCTION – Major #8091

revised program, Spring 2013

The construction curriculum is designed to offer students hands-on training which will prepare them for entry into the construction industry as an advanced apprentice.

Associate in Science Degree and Certificate of Achievement

Student Learning Outcomes:

1. Construct foundation forms for a slab on grade.
2. Correctly install vinyl windows in a newly framed residence.
3. Correctly install and finish drywall.
4. Install pre-hung doors.
5. Lay out and square a building foundation.
6. Install roof sheathing.

FIRST YEAR

| First Semester | | Units |
|-----------------------|--------------------------------------|--------------|
| ARCH 21 | Materials of Construction..... | 3 |
| AT 10 | Technical Computer Applications..... | 3 |
| AT 21 | Occupational Safety and Health..... | 2 |
| AT 130 | Industrial Mathematics..... | 3 |
| CONS 50A | Basic Residential Construction..... | 3 |
| | | Total 14 |

| Second Semester | | Units |
|------------------------|---|--------------|
| ARCH 22 | Architectural Practice II..... | 3 |
| AT 40 | Preparing for Employment Opportunities..... | 3 |
| AT 131 | Technical Report Writing..... | 3 |
| CONS 50B | Basic Residential Construction..... | 3 |

SECOND YEAR

| First Semester | | Units |
|-----------------------|--|--------------|
| CONS 51 | Residential Construction: Foundations and Framing, or..... | 9 |
| CONS 51A | Residential Construction: Foundations, and..... | 5 |
| CONS 51B | Residential Construction: Framing..... | 5 |
| | | Total 9-10 |

| Second Semester | | Units |
|------------------------|---|--------------|
| CONS 53 | Residential Construction: Exterior and Interior Finish, or..... | 9 |
| CONS 53A | Residential Construction: Exterior Finish, and..... | 5 |
| CONS 53B | Residential Construction: Interior Finish..... | 5 |
| CONS 55 | Roof Framing Systems..... | 3 |
| | | Total 12-13 |

Recommended Electives: BT 1; CONS 19, 56, 57; WELD 1.

Note: Students qualify for the certificate of achievement upon completion of the major requirements listed above. In addition, those completing the associate degree requirements on page 33 of the catalog, upon application, will be awarded the associate in science degree.

CRIMINOLOGY

CORRECTIONAL SCIENCE OPTION – Major #7731

revised program, Fall 2013

Designed to provide specialized education for those students desiring a career in the correctional field including employment as a juvenile correctional officer, a state of California corrections officer, a jail correctional officer and a probation and parole officer. This degree is also designed to provide those students who are pursuing careers in the correctional field of criminology, the opportunity to broaden their knowledge and appreciation of the many levels of corrections and the value of correctional roles in the criminal justice system.

This degree will also serve as a primer for those students who wish to pursue a higher level of education in corrections at the university level.

Associate in Science Degree

Student Learning Outcome:

1. The students will understand state and federal regulations and have knowledge of correctional systems.

REQUIRED CORE COURSES

| | Units |
|----------------------|--|
| CRIM 6 | Concepts of Criminal Law..... 3 |
| +CRIM 13 | The Constitution and Your Individual Rights..... 3 |
| CRIM 15 | Introduction to Police Ethics..... 3 |
| CRIM 20 | Introduction to Corrections..... 3 |
| CRIM 21 | Correctional Report Writing..... 3 |
| CRIM 23 | Correctional Interviewing and Counseling..... 3 |
| CRIM 24 | Control and Supervision in Corrections..... 3 |
| CRIM 25 | Legal Aspects of Corrections..... 3 |
| *Ethnic Studies | Any course listed below..... 3 |
| +ENGL 1A/1AH | Reading and Composition, or Honors Reading and Composition..... 4 |
| +HLTH 1 | Contemporary Health Issues..... 3 |
| +SPANISH or HMONG | any level..... 4 – 5 |

Total 38-39

| Course Options: Select Any 16 Units | Units |
|---|--------------|
| CRIM 1 Introduction to Criminology..... | 3 |
| CRIM 5 Community Relations | 3 |
| CRIM 8 Criminal Investigation..... | 4 |
| CRIM 11 Juvenile Delinquency | 3 |
| CRIM 18 Criminal Personalities..... | 3 |
| CRIM 19 Work Experience (Cooperative), Occupational | 1 - 6 |
| CRIM 36 Gangs and Corrections | 3 |
| *Ethnic Studies Any course listed below..... | 3 |
| +Hmong Any level..... | 5 |
| HS 44 Drug Use: Physical and Psychological Effects | 3 |
| PSY 2/2H General Psychology, or Honors General Psychology..... | 3 |
| PSY 16 Abnormal Psychology..... | 3 |
| +Spanish Any level..... | 4 - 5 |
| WSTS 10 Changing Roles of Women | 3 |

*Choose from AFRAM 1, 2, or 4; AMIND 31, 32, or 34; ASAMER 1 or 15; or CLS 11, 12, 13, 14, 24, 28, 29, or 30.
+ Also fulfills degree or transfer requirements

Notes: 1. An associate in science degree will be awarded to any candidate who successfully completes a minimum of 60 units.

Students Transferring from the Police Academy

Candidates who have completed the Basic Academy or the Reserve Level 1 program may request to waive 6 units from the following courses in the Criminology degree program: Criminology 1, 6, 7, 12. To process this, candidates must complete a course waiver form and attach a copy of the Certificate from the Police Academy or a copy of their transcript. Forms are available in the Social Sciences Division office. The waiver form is then signed by the dean of Social Science and by the dean of Admissions and Records.

CORRECTIONAL SCIENCE OPTION – Major #7731

revised program, Fall 2013

This certificate provides specialized education for those students desiring a career in the correctional field including employment as a juvenile correctional officer, a state of California corrections officer, a jail correctional officer and parole officer.

This certificate is also designed to provide students who are pursuing careers in the correctional field, the opportunity to broaden their technical knowledge of the many levels of correctional employment opportunities.

Certificate of Achievement

Student Learning Outcome:

1. The students will understand state and federal regulations and have knowledge of correctional systems.

| REQUIRED CORE COURSES | Units |
|--|--------------|
| CRIM 6 Concepts of Criminal Law | 3 |
| CRIM 20 Introduction to Corrections | 3 |
| CRIM 21 Correctional Report Writing..... | 3 |
| CRIM 23 Correctional Interviewing and Counseling | 3 |
| CRIM 24 Control and Supervision in Corrections | 3 |
| CRIM 25 Legal Aspects of Corrections | 3 |
| Total 18 | |

| Course Options: Select Any 16 Units | Units |
|---|--------------|
| CRIM 1 Introduction to Criminology..... | 3 |
| CRIM 5 Community Relations | 3 |
| CRIM 8 Criminal Investigation..... | 4 |
| CRIM 11 Juvenile Delinquency | 3 |
| CRIM 18 Criminal Personalities..... | 3 |
| CRIM 36 Gangs and Corrections | 3 |
| *Ethnic Studies Any course listed below..... | 3 |
| +Hmong Any level..... | 5 |
| PSY 2/2H General Psychology, or Honors General Psychology..... | 3 |
| PSY 16 Abnormal Psychology..... | 3 |
| +Spanish Any level..... | 4 - 5 |
| WSTS 10 Changing Roles of Women | 3 |

*Choose from AFRAM 1, 2, or 4; AMIND 31, 32, or 34; ASAMER 1 or 15; or CLS 11, 12, 13, 14, 24, 28, 29, or 30.

Notes: 1. An associate in science degree will be awarded to any candidate who successfully completes a minimum of 60 units.

Students Transferring from the Police Academy

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CRIMINOLOGY OPTION – Major #7700

revised program, Spring 2013

A transfer program designed for upper division work in law enforcement, corrections, or victimology.

Associate in Science

Student Learning Outcomes:

1. Recognize, name and define the key terms necessary for further study in criminology including its sub specializations of law enforcement, corrections, and victimology.
2. Explain the significance and importance of criminology to the society in which they live.
3. Identify the principal discoveries and contributions in the study of criminology and appraise critical areas for further inquiry.
4. Be familiar with a base of knowledge to make educated field level decisions in law enforcement, corrections, or victimology.

Required Core Courses

| | Units |
|----------|---|
| AT 10 | Technical Computer Applications, or |
| CIT 12 | Computer Literacy 3 |
| CRIM 1 | Introduction to Criminology..... 3 |
| CRIM 4 | Principles & Procedures of the Justice System 3 |
| CRIM 5 | Community Relations 3 |
| CRIM 6 | Concepts of Criminal Law 3 |
| CRIM 12 | Criminal Justice Communications 3 |
| *CRIM 13 | The Constitution and Your Individual Rights 3 |
| CRIM 15 | Introduction to Police Ethics 3 |
| CRIM 16 | Introduction to Victimology 3 |
| | Total 27 |

Course Options: Select 9 Units

| | Units |
|-------------|---|
| *AFRAM 1 | African-American Culture, or |
| *AFRAM 4 | African Civilization 3 |
| *AMIND 31 | American Indian Culture, or |
| *AMIND 34 | The American Indian in Contemporary Society 3 |
| *CLS 11 | Introduction to Chicano-Latino Studies, or |
| *CLS/SOC 14 | Sociology of the Mexican American Community 3 |
| ASAMER 15 | Introduction to Asian-American 3 |
| *PSY 2/2H | General Psychology, or |
| | Honors General Psychology 3 |
| *SOC 1A/1AH | Introduction of Sociology, or |
| | Honors Introduction to Sociology 3 |
| *SOC 2 | American Minority Groups..... 3 |
| *WSTS 10 | Changing Roles of Women 3 |

Students Transferring from the Police Academy:

Candidates who have completed the Basic Academy or the Reserve Level I program may request to waive 6 units from the following courses in the Criminology degree program: Criminology 1, 6, 7, 12. To process this, candidates must complete a course waiver form and attach a copy of the Certificate from the Police Academy or a copy of their transcript. Forms are available in the Social Sciences Division Office. The waiver is then signed by the dean of Social Sciences and the vice president of Admissions and Records.

*Also fulfills degree or transfer requirements.

CRIMINOLOGY OPTION – Major #7700

revised program, Fall 2013

A transfer program designed for upper division work in law enforcement, corrections, or victimology.

Associate in Science

Student Learning Outcomes:

1. Recognize, name and define the key terms necessary for further study in criminology including its sub specializations of law enforcement, corrections, and victimology.
2. Explain the significance and importance of criminology to the society in which they live.
3. Identify the principal discoveries and contributions in the study of criminology and appraise critical areas for further inquiry.
4. Be familiar with a base of knowledge to make educated field level decisions in law enforcement, corrections, or victimology.

Required Core Courses

| | Units |
|----------|--|
| AT 10 | Technical Computer Applications, or |
| CIT 12 | Computer Literacy.....3 |
| CRIM 1 | Introduction to Criminology.....3 |
| CRIM 4 | Principles & Procedures of the Justice System .....3 |
| CRIM 5 | Community Relations .....3 |
| CRIM 6 | Concepts of Criminal Law .....3 |
| CRIM 12 | Criminal Justice Communications .....3 |
| *CRIM 13 | The Constitution and Your Individual Rights .....3 |
| CRIM 15 | Introduction to Police Ethics .....3 |
| CRIM 16 | Introduction to Victimology .....3 |
| | Total 27 |

Course Options: Select 9 Units

| | Units |
|-------------|--|
| *AFRAM 1 | Introduction to African American Studies, or |
| *AFRAM 4 | Classical and Pre Colonial Africa .....3 |
| *AMIND 31 | American Indian Culture, or |
| *AMIND 34 | The American Indian in Contemporary Society .....3 |
| *CLS 11 | Introduction to Chicano-Latino Studies, or |
| *CLS/SOC 14 | Sociology of the Mexican American Community .....3 |
| ASAMER 15 | Introduction to Asian-American .....3 |
| *PSY 2/2H | General Psychology, or |
| | Honors General Psychology.....3 |
| *SOC 1A/1AH | Introduction of Sociology, or |
| | Honors Introduction to Sociology .....3 |
| *SOC 2 | American Minority Groups.....3 |
| *WSTS 10 | Changing Roles of Women .....3 |

Students Transferring from the Police Academy:

Candidates who have completed the Basic Academy or the Reserve Level I program may request to waive 6 units from the following courses in the Criminology degree program: Criminology 1, 6, 7, 12. To process this, candidates must complete a course waiver form and attach a copy of the Certificate from the Police Academy or a copy of their transcript. Forms are available in the Social Sciences Division Office. The waiver is then signed by the dean of Social Sciences and the vice president of Admissions and Records.

*Also fulfills degree or transfer requirements.

CRIMINOLOGY OPTION – Major #7700

revised program, Spring 2013

A transfer program designed for upper division work in law enforcement, corrections, or victimology.

Certificate of Achievement

Student Learning Outcomes:

1. Recognize, name, and define the key terms necessary for employment or further study in criminology, including its sub-fields of law enforcement, corrections, and victimology.
2. Explain the significance and importance of criminology [including law enforcement, corrections, and victimology] to the society in which they live.
3. Identify the principal discoveries and contributions of the study of criminology, and appraise critical areas for further academic inquiry.
4. Make educated field level decisions in law enforcement, corrections, and victimology.

Required Core Courses

| | Units |
|--------|--|
| AT 10 | Technical Computer Applications, or |
| CIT 12 | Computer Literacy.....3 |
| CRIM 1 | Introduction to Criminology.....3 |
| CRIM 4 | Principles & Procedures of the Justice System .....3 |
| CRIM 5 | Community Relations .....3 |

| | | |
|-------------|--|---|
| CRIM 6 | Concepts of Criminal Law | 3 |
| CRIM 12 | Criminal Justice Communications | 3 |
| CRIM 13 | The Constitution and Your Individual Rights | 3 |
| CRIM 15 | Introduction to Police Ethics | 3 |
| CRIM 16 | Introduction to Victimology | 3 |
| ENGL 1A/1AH | Reading and Composition, or Honors Reading and Composition..... | 4 |
| | Total 31 | |

| Course Options: Select 9 Units | | Units |
|---------------------------------------|---|--------------|
| AFRAM 1 | African-American Culture, or | |
| AFRAM 4 | African Civilization | 3 |
| AMIND 31 | American Indian Culture, or | |
| AMIND 34 | The American Indian in Contemporary Society | 3 |
| CLS 11 | Introduction to Chicano-Latino Studies, or | |
| CLS/SOC 14 | Sociology of the Mexican American Community | 3 |
| PSY 2/2H | General Psychology, or Honors General Psychology..... | 3 |
| SOC 1A/1AH | Introduction of Sociology, or Honors Introduction to Sociology | 3 |
| SOC 2 | American Minority Groups..... | 3 |
| WSTS 10 | Changing Roles of Women | 3 |

Students Transferring from the Police Academy:

Candidates who have completed the Basic Academy or the Reserve Level I program may request to waive 6 units from the following courses in the Criminology degree program: Criminology 1, 6, 7, 12. To process this, candidates must complete a course waiver form and attach a copy of the Certificate from the Police Academy or a copy of their transcript. Forms are available in the Social Sciences Division Office. The waiver is then signed by the dean of Social Sciences and the vice president of Admissions and Records.

CRIMINOLOGY OPTION – Major #7700

revised program, Fall 2013

A transfer program designed for upper division work in law enforcement, corrections, or victimology.

Certificate of Achievement

Student Learning Outcomes:

1. Recognize, name, and define the key terms necessary for employment or further study in criminology, including its sub-fields of law enforcement, corrections, and victimology.
2. Explain the significance and importance of criminology [including law enforcement, corrections, and victimology] to the society in which they live.
3. Identify the principal discoveries and contributions of the study of criminology, and appraise critical areas for further academic inquiry.
4. Make educated field level decisions in law enforcement, corrections, and victimology.

| Required Core Courses | | Units |
|------------------------------|--|--------------|
| AT 10 | Technical Computer Applications, or | |
| CIT 12 | Computer Literacy | 3 |
| CRIM 1 | Introduction to Criminology..... | 3 |
| CRIM 4 | Principles & Procedures of the Justice System | 3 |
| CRIM 5 | Community Relations | 3 |
| CRIM 6 | Concepts of Criminal Law | 3 |
| CRIM 12 | Criminal Justice Communications | 3 |
| CRIM 13 | The Constitution and Your Individual Rights | 3 |
| CRIM 15 | Introduction to Police Ethics | 3 |
| CRIM 16 | Introduction to Victimology | 3 |
| ENGL 1A/1AH | Reading and Composition, or Honors Reading and Composition..... | 4 |
| | Total 31 | |

| Course Options: Select 9 Units | | Units |
|---------------------------------------|---|--------------|
| *AFRAM 1 | Introduction to African American Studies, or | |
| *AFRAM 4 | Classical and Pre Colonial Africa | 3 |
| *AMIND 31 | American Indian Culture, or | |
| *AMIND 34 | The American Indian in Contemporary Society | 3 |
| *CLS 11 | Introduction to Chicano-Latino Studies, or | |
| *CLS/SOC 14 | Sociology of the Mexican American Community | 3 |
| *PSY 2/2H | General Psychology, or | |

| | | |
|-------------|---|---|
| | Honors General Psychology..... | 3 |
| *SOC 1A/1AH | Introduction of Sociology, or Honors Introduction to Sociology | 3 |
| *SOC 2 | American Minority Groups..... | 3 |
| *WSTS 10 | Changing Roles of Women | 3 |

LAW ENFORCEMENT OPTION – Major #8872

revised program, Spring 2013

This degree is designed for students considering careers as police officers, sheriff’s deputies, or highway patrol officers.

Associate in Science

Student Learning Outcomes:

1. Describe the development and history of law enforcement in the western world.
2. Compare and contrast legal and constitutional issues.
3. Compare and contrast components of the American criminal justice system.

Required Core Courses

Units

| | | |
|----------|---|-----------|
| AT 10 | Technical Computer Applications, or CIT 12 Computer Literacy | 3 |
| CRIM 1 | Introduction to Criminology..... | 3 |
| CRIM 3 | Legal Aspects of Evidence | 3 |
| CRIM 5 | Community Relations | 3 |
| CRIM 6 | Concepts in Criminal Law..... | 3 |
| CRIM 7 | Concepts in Enforcement Services | 3 |
| CRIM 8 | Criminal Investigation | 3 |
| CRIM 11 | Juvenile Delinquency | 4 |
| CRIM 12 | Criminal Justice Communications | 3 |
| *CRIM 13 | The Constitution and Your Individual Rights | 3 |
| CRIM 15 | Introduction to Police Ethics | 3 |
| | Total | 34 |

Course Options: Select 9 Units

Units

| | | |
|-------------|---|---|
| *AFRAM 1 | African-American Culture, or *AFRAM 4 African Civilization | 3 |
| *AMIND 31 | American Indian Culture, or *AMIND 34 The American Indian in Contemporary Society | 3 |
| *CLS 11 | Introduction to Chicano-Latino Studies, or *CLS/SOC 14 Sociology of the Mexican American Community | 3 |
| *PSY 2/2H | General Psychology, or Honors General Psychology..... | 3 |
| *SOC 1A/1AH | Introduction to Sociology, or Honors Introduction to Sociology | 3 |
| *SOC 2 | American Minority Groups..... | 3 |
| *WSTS 10 | Changing Roles of Women | 3 |

*Also fulfills degree or transfer requirements.

Note: An associate in science degree will be awarded to any candidate who successfully completes a minimum of 60 units. The 60-unit minimum must include associate degree requirements and 45 units of course work listed above.

Students Transferring from the Police Academy

Candidates who have completed the Basic Academy or the Reserve Level 1 program may request to waive 6 units from the following courses in the Criminology degree program: Criminology 1, 6, 7, 12. To process this, candidates must complete a course waiver form and attach a copy of the Certificate from the Police Academy or a copy of their transcript. Forms are available in the Social Sciences Division office.

The waiver form is then signed by the dean of Social Science and by the vice president of Admissions and Records.

LAW ENFORCEMENT OPTION – Major #8872

revised program, Fall 2013

This degree is designed for students considering careers as police officers, sheriff’s deputies, or highway patrol officers.

Associate in Science

Student Learning Outcomes:

1. Describe the development and history of law enforcement in the western world.
2. Compare and contrast legal and constitutional issues.
3. Compare and contrast components of the American criminal justice system.

| Required Core Courses | | Units |
|------------------------------|---|--------------|
| AT 10 | Technical Computer Applications, or | |
| CIT 12 | Computer Literacy | 3 |
| CRIM 1 | Introduction to Criminology..... | 3 |
| CRIM 3 | Legal Aspects of Evidence | 3 |
| CRIM 5 | Community Relations | 3 |
| CRIM 6 | Concepts in Criminal Law..... | 3 |
| CRIM 7 | Concepts in Enforcement Services | 3 |
| CRIM 8 | Criminal Investigation | 3 |
| CRIM 11 | Juvenile Delinquency | 4 |
| CRIM 12 | Criminal Justice Communications | 3 |
| *CRIM 13 | The Constitution and Your Individual Rights | 3 |
| CRIM 15 | Introduction to Police Ethics | 3 |
| | | Total 34 |

| Course Options: Select 9 Units | | Units |
|---------------------------------------|---|--------------|
| *AFRAM 1 | Introduction to African American Studies, or | |
| *AFRAM 4 | Classical and Pre Colonial Africa | 3 |
| *AMIND 31 | American Indian Culture, or | |
| *AMIND 34 | The American Indian in Contemporary Society | 3 |
| *CLS 11 | Introduction to Chicano-Latino Studies, or | |
| *CLS/SOC 14 | Sociology of the Mexican American Community | 3 |
| *PSY 2/2H | General Psychology, or | |
| | Honors General Psychology..... | 3 |
| *SOC 1A/1AH | Introduction to Sociology | |
| | Honors Introduction to Sociology | 3 |
| *SOC 2 | American Minority Groups..... | 3 |
| *WSTS 10 | Changing Roles of Women | 3 |

*Also fulfills degree or transfer requirements.

Note: An associate in science degree will be awarded to any candidate who successfully completes a minimum of 60 units. The 60-unit minimum must include associate degree requirements and 45 units of course work listed above.

Students Transferring from the Police Academy

Candidates who have completed the Basic Academy or the Reserve Level 1 program may request to waive 6 units from the following courses in the Criminology degree program: Criminology 1, 6, 7, 12. To process this, candidates must complete a course waiver form and attach a copy of the Certificate from the Police Academy or a copy of their transcript. Forms are available in the Social Sciences Division office.

The waiver form is then signed by the dean of Social Science and by the vice president of Admissions

LAW ENFORCEMENT OPTION – Major #8872

revised program, Spring 2013

This certificate of achievement is designed for students considering careers as police officers, sheriff's deputies, or highway patrol officers.

Certificate of Achievement

Student Learning Outcomes:

1. Describe the development and history of law enforcement in the western world.
2. Compare and contrast legal and constitutional issues.
3. Compare and contrast components of the American criminal justice system.

| Required Core Courses | | Units |
|------------------------------|--|--------------|
| AT 10 | Technical Computer Applications, or | |
| CIT 12 | Computer Literacy | 3 |
| CRIM 1 | Introduction to Criminology..... | 3 |
| CRIM 3 | Legal Aspects of Evidence | 3 |
| CRIM 5 | Community Relations | 3 |
| CRIM 6 | Concepts in Criminal Law..... | 3 |
| CRIM 7 | Concepts in Enforcement Services | 3 |
| CRIM 8 | Criminal Investigation | 4 |
| CRIM 11 | Juvenile Delinquency | 3 |
| CRIM 12 | Criminal Justice Communications | 3 |

| | | |
|---------|---|----|
| CRIM 13 | The Constitution and Your Individual Rights | 3 |
| CRIM 15 | Introduction to Police Ethics | 3 |
| | Total | 34 |

| Course Options: Select 9 Units | | Units |
|---------------------------------------|---|--------------|
| AFRAM 1 | African-American Culture, or | |
| AFRAM 4 | African Civilization | 3 |
| AMIND 31 | American Indian Culture, or | |
| AMIND 34 | The American Indian in Contemporary Society | 3 |
| CLS 11 | Introduction to Chicano-Latino Studies, or | |
| CLS/SOC 14 | Sociology of the Mexican American Community | 3 |
| PSY 2/2H | General Psychology, or | |
| | Honors General Psychology | 3 |
| SOC 1A/1AH | Introduction to Sociology, or | |
| | Honors Introduction to Sociology | 3 |
| SOC 2 | American Minority Groups | 3 |
| WSTS 10 | Changing Roles of Women | 3 |

Students Transferring from the Police Academy

Candidates who have completed the Basic Academy or the Reserve Level 1 program may request to waive 6 units from the following courses in the Criminology degree program: Criminology 1, 6, 7, 12. To process this, candidates must complete a course waiver form and attach a copy of the Certificate from the Police Academy or a copy of their transcript. Forms are available in the Social Sciences Division office. The waiver form is then signed by the dean of Social Science and by the vice president of Admissions and Records.

LAW ENFORCEMENT OPTION – Major #8872

revised program, Fall 2013

This certificate of achievement is designed for students considering careers as police officers, sheriff’s deputies, or highway patrol officers.

Certificate of Achievement

Student Learning Outcomes:

1. Describe the development and history of law enforcement in the western world.
2. Compare and contrast legal and constitutional issues.
3. Compare and contrast components of the American criminal justice system.

| Required Core Courses | | Units |
|------------------------------|---|--------------|
| AT 10 | Technical Computer Applications, or | |
| CIT 12 | Computer Literacy | 3 |
| CRIM 1 | Introduction to Criminology | 3 |
| CRIM 3 | Legal Aspects of Evidence | 3 |
| CRIM 5 | Community Relations | 3 |
| CRIM 6 | Concepts in Criminal Law | 3 |
| CRIM 7 | Concepts in Enforcement Services | 3 |
| CRIM 8 | Criminal Investigation | 4 |
| CRIM 11 | Juvenile Delinquency | 3 |
| CRIM 12 | Criminal Justice Communications | 3 |
| CRIM 13 | The Constitution and Your Individual Rights | 3 |
| CRIM 15 | Introduction to Police Ethics | 3 |
| | Total | 34 |

| Course Options: Select 9 Units | | Units |
|---------------------------------------|---|--------------|
| *AFRAM 1 | Introduction to African American Studies, or | |
| *AFRAM 4 | Classical and Pre Colonial Africa | 3 |
| AMIND 31 | American Indian Culture, or | |
| AMIND 34 | The American Indian in Contemporary Society | 3 |
| CLS 11 | Introduction to Chicano-Latino Studies, or | |
| CLS/SOC 14 | Sociology of the Mexican American Community | 3 |
| PSY 2/2H | General Psychology, or | |
| | Honors General Psychology | 3 |
| SOC 1A/1AH | Introduction to Sociology, or | |
| | Honors Introduction to Sociology | 3 |
| SOC 2 | American Minority Groups | 3 |
| WSTS 10 | Changing Roles of Women | 3 |

Students Transferring from the Police Academy

Candidates who have completed the Basic Academy or the Reserve Level 1 program may request to waive 6 units from the following courses in the Criminology degree program: Criminology 1, 6, 7, 12. To process this, candidates must complete a course waiver form and attach a copy of the Certificate from the Police Academy or a copy of their transcript. Forms are available in the Social Sciences Division office. The waiver form is then signed by the dean of Social Science and by the vice president of Admissions and Records.

DANCE

DANCE – Major #5390

revised program, Fall 2013

The associate degree in dance provides a base of training in dance technique and practical experience in concert performance and production work as well as theoretical background in dance composition. Possible careers include choreographer+, dance director, dance historian+, dancer, dance teacher+, dance therapist+, fitness/aerobic instructor, movement notator, performer, reconstructor, and recreation leader.

Associate in Arts Degree

Student Learning Outcomes:

1. Participate in a public dance performance.
2. Describe characteristic elements and form of various dance choreography.

**Bachelor degree or higher required.*

| Required Core Courses | Units |
|--|--------------|
| DANCE 10 Beginning Modern Dance..... | 1 |
| DANCE 12A Beginning Ballet Part 1, or | |
| DANCE 12B Beginning Ballet Part 2..... | 1 |
| DANCE 14 Beginning Jazz Dance Technique, or | |
| DANCE 15* Intermediate Jazz Dance Technique..... | 1 |
| DANCE 20A Beginning Modern Dance Composition..... | 3 |
| DANCE 20B Intermediate Modern Dance Composition..... | 3 |
| DANCE 21 Dance Workshop Performance..... | 2-4 |
| DANCE 22 Dance Theatre Performance..... | 2-3 |
| DANCE 28 Intermediate Modern Dance..... | 1 |
| DANCE 30 Dance Appreciation..... | 3 |
| MUS 3 Music Fundamentals..... | 3 |
| PE 17 Hatha Yoga, or | |
| DANCE 9 Dance Conditioning..... | 1 |
| Total 22-25 | |

**Class level dependent on entry-level experience.*

NONTRANSFER (PROFESSIONAL) PROGRAM

Students planning a career in dance upon leaving Fresno City College are urged to complete additional courses in physical education, music and theatre arts.

NONTRANSFER TOTAL UNITS REQUIRED.....36-39

| Required Courses | Units |
|--------------------------------|--------------|
| MUS 12 Music Appreciation..... | 3 |
| PE 20 Athletic Training..... | 4 |

At least one of the following courses:

| | Units |
|---|--------------|
| TA 12 Fundamentals of Interpretation..... | 3 |
| TA 41 Beginning Acting..... | 3 |

At least four units from:

| | Units |
|---|--------------|
| TA 26 Theatre Crafts II..... | 3 |
| TA 27B Introduction to Lighting Design..... | 3 |
| TA 28 Introduction to Stage Makeup..... | 3 |
| TA 35 Costume Crafts..... | 3 |

Note: The associate degree additionally requires the completing of the requirements listed on page 33 with a 2.0 or better GPA.

TRANSFER PROGRAM

Most four-year colleges and universities will require a dance audition to determine level of placement upon transfer. An effective program of study can best be obtained by consulting directly with the department of the target institution as early as possible.

TOTAL UNITS REQUIRED35-38

COURSE OPTIONS: Select 13 Units

| | Units |
|---|--------------|
| ART 2 Art Appreciation..... | 3 |
| ART 3 Two-Dimensional Design | 3 |
| ART 4 Three-Dimensional Design..... | 3 |
| BIOL 20 Human Anatomy | 4 |
| DANCE 9 Dance Conditioning..... | 1 |
| DANCE 10 Beginning Modern Dance Technique | 1 |
| DANCE 11 Introduction to Social Dance | 1 |
| DANCE 12A Beginning Ballet Part 1..... | 1 |
| DANCE 14 Beginning Jazz Dance Technique..... | 1 |
| DANCE 15 Intermediate Jazz Dance Technique..... | 1 |
| DANCE 16 Beginning Tap Dance..... | 1 |
| DANCE 17 Beginning Mexican Folk Dance..... | 4 |
| DANCE 18 Intermediate Tap Dance..... | 1 |
| DANCE 21 Dance Workshop Performance | 2-4 |
| DANCE 22 Dance Theatre Performance | 2-3 |
| DANCE 27 Advanced Mexican Folk Dance..... | 4 |
| MUS 12 Music Appreciation | 3 |
| PE 17 Hatha Yoga | 1 |
| PE 20 Athletic Training | 4 |

ELECTRICAL SYSTEMS TECHNOLOGY

ELECTRICAL SYSTEMS TECHNOLOGY – Major #8171

revised program, Spring 2013

Electrical Systems Technology provides an opportunity for students to prepare for employment in the electronics/electrical industry. Specific occupational preparation is provided in the following program.

Associate in Science Degree and Certificate of Achievement

Student Learning Outcomes:

1. Define and apply various numbering systems (i.e. Binary, hexadecimal and Octal).
2. Develop a motor logic control solution using the defined parameters given.
3. Demonstrate a comprehension of the basic operation of communication systems for digital signals.
4. Design and configure a control application using a PLC and PLC software.
5. Specify, install, and calibrate an instrumentation circuit for the solution of a problem.

RECOMMENDED COURSE SEQUENCE

FIRST YEAR

| First Semester | | Units |
|-----------------------|---|--------------|
| AT 10 | Technical Computer Applications..... | 3 |
| EST 51 | Direct Current Fundamentals of Electronics..... | 3 |
| EST 52 | Alternating Current Fundamentals..... | 3 |
| EST 54 | Integrated Devices | 3 |
| | Total | 12 |

Second Semester

| | | Units |
|---------|---------------------------------------|--------------|
| EST 53 | Lab Safety Practices | 2 |
| EST 55A | Digital Concepts | 3 |
| EST 55B | Facility Automation | 3 |
| EST 57C | Voice and Data Cabling..... | 3 |
| EST 96A | National Electrical Code Part 1, or | |
| EST 96B | National Electrical Code Part 2, or | |
| EST 96C | National Electrical Code Part 3 | 3 |
| | Total | 14 |

SECOND YEAR

| First Semester | | Units |
|-----------------------|-----------------------------|--------------|
| EST 55C | SCADA Systems..... | 2 |
| EST 57A | Analog Communications | 3 |

| | | |
|---------|-------------------------------------|----|
| EST 57B | Digital Communications..... | 3 |
| EST 58 | Programmable Logic Controllers..... | 3 |
| | Total | 11 |

| | | |
|------------------------|--|--------------|
| Second Semester | | Units |
| AT 40 | Preparing for Employment Opportunities | 3 |
| EST 56A | Wiring Methods | 3 |
| EST 56B | Motor Controls..... | 3 |
| EST 56C | Industrial Electronics | 3 |
| EST 59 | Instrumentation Systems..... | 3 |
| | Total | 15 |

AUTOMATION CONTROL TECHNICIAN – Major #8179

revised program, Spring 2013

Training is designed to prepare the student for employment as an industrial and/or building automation technician.

Certificate of Achievement

Student Learning Outcomes:

1. Develop and implement a strategy utilizing HVAC controls.
2. Design and implement a network topology for a solution to a proposed communication problem.
3. Configure the I/O for a PLC project using PLC software.
4. Specify, install, and calibrate an instrumentation circuit for the solution of a problem.
5. Identify the role of a supervisory controller within a DDC network.

FIRST YEAR

| | | |
|-----------------------|---|--------------|
| First Semester | | Units |
| AT 10 | Technical Computer Applications..... | 3 |
| EST 51 | Direct Current Fundamentals of Electronics..... | 3 |
| EST 55B | Facility Automation | 3 |
| EST 57C | Voice and Data Cabling..... | 3 |
| | Total | 12 |

| | | |
|------------------------|--|--------------|
| Second Semester | | Units |
| AC 57 | System Configuration and Control | 2 |
| EST 55A | Digital Concepts..... | 3 |
| EST 58 | Programmable Logic Controllers..... | 3 |
| | Total | 8 |

SECOND YEAR

| | | |
|-----------------------|-------------------------------|--------------|
| First Semester | | Units |
| AC 250 | Digital Unitary Controls..... | 2 |
| EST 55C | SCADA Systems | 2 |
| EST 59 | Instrumentation Systems..... | 3 |
| | Total | 7 |

Second Semester Units

| | | |
|--------|-------------------------------|---|
| AC 251 | Digital VAV Controls..... | 1 |
| AC 252 | DDC Network Controllers | 2 |
| | Total | 3 |

FIRE TECHNOLOGY

FIRE TECHNOLOGY – MAJOR #883A

revised program, Spring 2013

This program is designed to provide the student with updated skills and knowledge necessary to complete and successfully apply for fire service careers. The curriculum serves as an in-service program as well as a pre-employment program for students seeking employment or advancement in the profession of fire fighting and fire technology.

Associate in Science Degree

Student Learning Outcomes:

1. Given a typical type of fire department, describe the organizational structure and all of the staff functions within it.
2. Given a specific function of the fire service, describe the purpose of a paid and volunteer firefighter.

| | | |
|------------------------------|--------------------------------------|--------------|
| REQUIRED CORE COURSES | | Units |
| AT 10 | Technical Computer Applications..... | 3 |
| AT 120 | Industrial Science | 3 |
| AT 130 | Industrial Mathematics | 3 |

| | | |
|----------|---|----|
| FIRET 1 | Fire Protection Organization..... | 3 |
| FIRET 2 | Fire Prevention Technology | 3 |
| FIRET 3 | Fire Protection Equipment and Systems | 3 |
| FIRET 4 | Building Construction for Fire Protection | 3 |
| FIRET 5 | Fire Behavior and Combustion..... | 3 |
| FIRET 14 | Principles of Fire & Emergency Services Safety & Survival | 3 |
| | Total | 27 |

Course Options: Select 12 Units **Units**

| | | |
|--------------|---|----|
| FIRET 8 | Fire Hydraulics | 3 |
| FIRET 9 | Fire Fighting Practices..... | 3 |
| FIRET 13 | Arson and Fire Investigation Technology | 3 |
| FIRET 130 * | Basic Fire Academy | 6 |
| FIRET 131 | Emergency Medical Technician I | 10 |
| FIRET 135 ** | Emergency Medical Technician-Paramedic-Field Internship.... | 9 |

Suggested Sequence of Courses

FIRST YEAR

First Semester **Units**

| | | |
|--------|------------------------------|---|
| AT 120 | Industrial Science..... | 3 |
| AT 130 | Industrial Mathematics | 3 |
| | Total | 6 |

Second Semester **Units**

| | | |
|---------|-----------------------------------|----|
| FIRET 1 | Fire Protection Organization..... | 3 |
| FIRET 2 | Fire Prevention Technology | 3 |
| FIRET 5 | Fire Behavior and Combustion..... | 3 |
| Options | ..... | 6 |
| | Total | 15 |

SECOND YEAR

First Semester **Units**

| | | |
|----------|---|---|
| AT 10 | Technical Computer Applications | 3 |
| FIRET 14 | Principles of Fire & Emergency Services Safety & Survival | 3 |
| | Total | 6 |

Second Semester **Units**

| | | |
|---------|---|----|
| FIRET 3 | Fire Protection Equipment and Systems | 3 |
| FIRET 4 | Building Construction for Fire Protection | 3 |
| Options | ..... | 6 |
| | Total | 12 |

It is recommended that students establish eligibility for English 125 and 126 or English as a Second Language 67 and 68.

Note: The associate degree additionally requires completion of the requirements listed in the Graduation Requirements section of this catalog.

*FIRET 130 carries a value of up to 27 units; however, only 6 units can be applied to the associate in science degree and certificate of achievement.

**FIRET 135 is the final of three courses required to successfully complete the Paramedic training program.

FIRE TECHNOLOGY – MAJOR #883A

revised program, Spring 2013

This program is designed to provide the student with updated skills and knowledge necessary to complete and successfully apply for fire service careers. The curriculum serves as an in-service program as well as a pre-employment program for students seeking employment or advancement in the profession of fire fighting and fire technology.

Certificate of Achievement

Student Learning Outcomes:

1. Given a typical type of fire department, describe the organizational structure and all of the staff functions within it.
2. Given a specific function of the fire service, describe the purpose of a paid and volunteer firefighter.

REQUIRED CORE COURSES **Units**

| | | |
|--------|--------------------------------------|---|
| AT 10 | Technical Computer Applications..... | 3 |
| AT 120 | Industrial Science..... | 3 |
| AT 130 | Industrial Mathematics | 3 |

| | | |
|----------|---|----|
| FIRET 1 | Fire Protection Organization..... | 3 |
| FIRET 2 | Fire Prevention Technology | 3 |
| FIRET 3 | Fire Protection Equipment and Systems | 3 |
| FIRET 4 | Building Construction for Fire Protection | 3 |
| FIRET 5 | Fire Behavior and Combustion..... | 3 |
| FIRET 14 | Principles of Fire & Emergency Services Safety & Survival | 3 |
| | Total | 27 |

Course Options: Select 12 Units **Units**

| | | |
|--------------|--|----|
| FIRET 8 | Fire Hydraulics | 3 |
| FIRET 9 | Fire Fighting Practices..... | 3 |
| FIRET 13 | Arson and Fire Investigation Technology | 3 |
| FIRET 130 * | Basic Fire Academy | 6 |
| FIRET 131 | Emergency Medical Technician I | 10 |
| FIRET 135 ** | Emergency Medical Technician-Paramedic-Field Internship..... | 9 |

Suggested Sequence of Courses

FIRST YEAR

First Semester **Units**

| | | |
|--------|------------------------------|---|
| AT 120 | Industrial Science..... | 3 |
| AT 130 | Industrial Mathematics | 3 |
| | Total | 6 |

Second Semester **Units**

| | | |
|---------|-----------------------------------|----|
| FIRET 1 | Fire Protection Organization..... | 3 |
| FIRET 2 | Fire Prevention Technology | 3 |
| FIRET 5 | Fire Behavior and Combustion..... | 3 |
| Options | ..... | 6 |
| | Total | 15 |

SECOND YEAR

First Semester **Units**

| | | |
|----------|---|---|
| AT 10 | Technical Computer Applications | 3 |
| FIRET 14 | Principles of Fire & Emergency Services Safety & Survival | 3 |
| | Total | 6 |

Second Semester **Units**

| | | |
|---------|---|----|
| FIRET 3 | Fire Protection Equipment and Systems | 3 |
| FIRET 4 | Building Construction for Fire Protection | 3 |
| Options | ..... | 6 |
| | Total | 12 |

It is recommended that students establish eligibility for English 125 and 126 or English as a Second Language 67 and 68.

Note: The certificate of achievement requires completion of the major (27 units) and 12 units of the recommended course options with a GPA of 2.0 or better.

*FIRET 130 carries a value of up to 27 units; however, only 6 units can be applied to the certificate of achievement.

**FIRET 135 is the final of three courses required to successfully complete the Paramedic training program.

FOOD SERVICE MANAGEMENT

FOOD SERVICE MANAGEMENT – Major #5691

revised program, Fall 2013

This degree is designed to prepare students for employment in Food Service Management.

Associate in Science Degree

Student Learning Outcomes:

1. Identify the causes of food borne illness and the practices to prevent food borne illness in a food service system.
2. Evaluate the nutritional content of foods and menus.
3. Choose record keeping methods to monitor the fiscal viability of a food service establishment.

Required Core Courses **Units**

| | | |
|--------------|---|--|
| ACCTG 4A/4AH | Financial Accounting, or Honors Financial Accounting, or | |
|--------------|---|--|

| | | |
|-------------|---|-----|
| BT 131 | Applied Accounting..... | 4 |
| BA 18 | Business and the Legal Environment..... | 4 |
| CIT 15 | Computer Concepts | 3 |
| ECON 40/40H | Introduction to Microeconomics, or Honors Introduction to Microeconomics | 3 |
| FN 1 | Principles of Food Preparation | 3 |
| FN 35 | Nutrition and Health, or | |
| FN 40 | Nutrition..... | 3 |
| FSM 11 | Food Service Supervision | 2 |
| FSM 15 | Food Production Management | 2 |
| FSM 19 | Work Experience (Cooperative), Occupational | 1-4 |
| FSM 25 | Food and Beverage Purchasing and Control | 2 |
| FSM 35 | Food Services, Sanitation, Safety and Equipment | 2 |
| FSM 38 | Quantity Food Preparation | 3 |
| MKTG 10 | Principles of Marketing | 3 |
| | Total 35-38 | |

FOOD SERVICE MANAGEMENT – Major #5691

revised program, Fall 2013

This certificate of achievement is designed to prepare students for employment in Food Service Management.

Certificate of Achievement

Student Learning Outcomes:

1. Identify the causes of food borne illness and the practices to prevent food borne illness in a food service system.
2. Evaluate the nutritional content of foods and menus.
3. Choose record keeping methods to monitor the fiscal viability of a food service establishment.

Required Core Courses

Units

| | | |
|--------------|---|-----|
| ACCTG 4A/4AH | Financial Accounting, or Honors Financial Accounting, or | |
| BT 131 | Applied Accounting..... | 4 |
| BA 18 | Business and the Legal Environment..... | 4 |
| CIT 15 | Computer Concepts | 3 |
| ECON 40/40H | Introduction to Microeconomics, or Honors Introduction to Microeconomics | 3 |
| FN 1 | Principles of Food Preparation | 3 |
| FN 35 | Nutrition and Health, or | |
| FN 40 | Nutrition..... | 3 |
| FSM 11 | Food Service Supervision | 2 |
| FSM 15 | Food Production Management | 2 |
| FSM 19 | Work Experience (Cooperative), Occupational | 1-4 |
| FSM 25 | Food and Beverage Purchasing and Control | 2 |
| FSM 35 | Food Services, Sanitation, Safety and Equipment | 2 |
| FSM 38 | Quantity Food Preparation | 3 |
| MKTG 10 | Principles of Marketing | 3 |
| | Total 35-38 | |

HEALTH INFORMATION TECHNOLOGY

HEALTH INFORMATION TECHNOLOGY FORMERLY MEDICAL RECORD TECHNOLOGY – Major #4621 *correction*

The Health Information Technology (HIT) Program prepares students for a profession that combines healthcare with information technology. Health information technicians perform the essential functions of maintaining digital and traditional medical information in acute, long-term, and ambulatory healthcare settings. Job responsibilities may include coding, data collection, documentation analysis, quality improvement, access and release of information, or supervision.

The HIT Program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) in cooperation with the American Health Information Management Association (AHIMA). Successful completion of the Health Information Technology Program qualifies the graduate for an Associate in Science degree and eligibility to take the Registered Health Information Technician (RHIT) exam administered by AHIMA.

Associate in Science Degree

Student Learning Outcomes:

1. Students perform health information technician skills and competencies required for employment in a health information management department.
2. Students pass the Registered Health Information Technician examination.

Suggested Sequence of Courses:

FIRST YEAR

| First Semester | | Units |
|-----------------------|---|--------------|
| BIOL 5 | Human Biology | 4 |
| CIT 15 | Computer Concepts | 3 |
| HIT 1 | Introduction to Health Information Management | 3 |
| HIT 10 | Medical Terminology | 3 |
| | | Total 13 |

| Second Semester | | Units |
|-------------------------|--|--------------|
| HIT 2 | Legal Aspects of Health Information..... | 2 |
| HIT 4 | Disease Process | 3 |
| HIT 5 | Introduction to Coding | 3 |
| HIT 12 | Health Information in Alternative Settings | 2 |
| MA 2 Pharmacology | | 3 |
| | | Total 13 |

SECOND YEAR

| First Semester | | Units |
|-----------------------|-------------------------------------|--------------|
| CIT 20 | Microsoft Office | 3 |
| HIT 3 | Quality Improvement | 2 |
| HIT 6 | Coding and Reimbursement..... | 3 |
| HIT 9 | Hospital and Health Statistics..... | 2 |
| HIT 14 | HIM Technology and Systems | 3 |
| | | Total 13 |

| Second Semester | | Units |
|------------------------|---|--------------|
| HIT 7 | Directed Practice | 5 |
| HIT 8 | Health Information Management and Supervision | 3 |
| HIT 11 | CPT Coding..... | 3 |
| | | Total 11 |

Notes:

1. *The associate degree requires the completion of the program requirements with a 2.0 or higher GPA.*
2. *Biology 20 and 22, or 24 may be substituted for Biology 5.*
3. *In addition to the courses listed above, all requirements for the Associate Degree in Science must be met. Refer to the Fresno City College Catalog section on certificate and degree and meet with a counselor for advisement.*
4. *Academic credit earned in accredited institutions of higher education or AHIMA approved schools of Health Information Technology for comparable courses will be accepted for transfer. Equivalency will be determined on the basis of catalog description, course outline, course comparison, and hour distribution. Credit by examination, when acceptable, may be required when equivalency cannot be determined.*

HOME ECONOMICS – CONSUMER EDUCATION

HOME ECONOMICS – CONSUMER EDUCATION – Major #5640

programs deleted, Spring 2013

HONORS PROGRAM

LEON S. PETERS HONORS PROGRAM – Major #5331

revised program, Fall 2013

A Leon S. Peter Certificate in Honors will be awarded to Honors students who successfully complete a minimum of 17 credits of Honors courses including 2 colloquium units with an overall GPA of 3.2 or better.

CERTIFICATE

Student Learning Outcomes:

1. Demonstrate an understanding and appreciation of social, political, and economic institutions within a historical perspective.
2. Express an understanding of the relationship between science and other human activities.
3. Articulate an understanding of the relationships between the arts, the humanities and themselves.
4. Write clear, logically organized essays using expository and argumentative modes and applying conventions of documentation when appropriate.
5. Apply logical reasoning to make decisions, solve problems, explain conclusions, and evaluate evidence.

| Required Course | | Units |
|------------------------|--------------------------------------|--------------|
| *ENGL 1AH | Honors Reading and Composition | 4 |

*An exception can be made if student has successfully completed ENGL 1A prior to entering the Honors program.

| Elective Courses: Select a minimum of 11 units | | Units |
|---|--|--------------|
| ACCTG 4AH | Honors Financial Accounting, or | |
| ACCTG 4BH | Honors Managerial Accounting | 4 |
| ANTHRO 2H | Honors Cultural Anthropology | 3 |
| ART 5H | Honors Art History 1, or | |
| ART 6H | Honors Art History 2 | 3 |
| BA 10H | Honors Introduction to Business | 3 |
| BIOL 11AH | Honor Biology for Science Majors I, or | |
| BIOL 1H | Honors Principles of Biology | 4-5 |
| ECON 40H | Honors Introduction to Microeconomics, or | |
| ECON 50H | Honors Introduction to Macroeconomics | 3 |
| ENGL 1BH | Honors Introduction to Literature | 3 |
| ENGL 3H | Honors Critical Reading & Writing | 3 |
| HIST 1H | Honors Western Civilization to 1648, or | |
| HIST 2H | Honors Western Civilization since 1648 | 3 |
| HUM 10H | Honors Classical Humanities, or | |
| HUM 11H | Honors Modern Humanities..... | 3 |
| PHIL 1AH | Honors Theories of Knowledge and Reality | 3 |
| POLSCI 2H | Honors American Government..... | 3 |
| PSY 2H | Honors General Psychology..... | 3 |
| SOC 1AH | Honors Introduction to Sociology | 3 |

| Colloquia: Select a minimum of 2 units | | Units |
|---|--|--------------|
| HONORS 1A | Honors Science Colloquium | 1 |
| HONORS 1C | Honors Humanities Colloquium..... | 1 |
| HONORS 1D | Honors Business & Economics Colloquium | 1 |
| HONORS 1E | Honors Social Science Colloquium | 1 |
| HONORS 1F | Honors Phi Theta Kappa Colloquium | 1 |

HUMAN SERVICES

ALCOHOLISM AND DRUG ABUSE COUNSELING OPTION – Major #7951 *revised program, Fall 2013*

This degree is designed for students interested in working in the field of chemical dependency. Completion of the total program will broaden a candidate’s understanding and assist in preparation needed to enter the field.

These core classes of the degree are accredited by the California Association for Alcohol/Drug Educators (CAADE) and recognized by the other counselor certification organizations in California. The degree offers course work leading to a certificate of achievement, and an AS degree in Alcoholism and Drug Abuse Counseling.

Associate in Science

Student Learning Outcomes:

1. Demonstrate a fundamental working knowledge of the Alcohol and Other Drug Abuse system..
2. Be prepared for entry-level employment in an Alcohol or Other Drug program..
3. Demonstrate an understanding of the 12 core competencies and their application to the treatment of substance use disorders.

| Required Core Courses | | Units |
|------------------------------|---|--------------|
| HS/SOC 10 | Introduction to Aging Studies | 3 |
| HS 18 | Alcohol and Drug Abuse Counseling: Professional and Personal Growth | 2 |
| HS 19B | Work Experience (Cooperative), Occupational | 6 |
| HS 20 | Introduction to Social Welfare | 3 |
| HS 24 | Fundamentals of Interviewing and Counseling..... | 3 |
| HS 40 | Alcohol and Drug Abuse Counseling: Law and Ethics, Prevention, Education, Outreach And Referral | 3 |
| HS 42 | Introduction to Alcohol and Drug Counseling | 3 |
| HS 43 | Alcohol and Drug Abuse Counseling: Case Management..... | 3 |
| HS 44 | Drug Use: Physical and Psychological Effects | 3 |

| Course Options: Select 7 Units | | Units |
|---------------------------------------|---|--------------|
| AFRAM 1 | Introduction to African American Studies, or | |
| AMIND 34 | The American Indian in Contemporary Society, or | |
| CLS/SOC 14 | Sociology of the Mexican American Community | 3 |

| | | |
|--------------|---|---|
| CHDEV 5 | Parent Education..... | 3 |
| CHDEV/PSY 12 | Child Abuse..... | 3 |
| HS/WSTS 25 | Assertiveness Training..... | 2 |
| PSY 2/2H | General Psychology, or Honors General Psychology..... | 3 |
| PSY 5 | Social Psychology..... | 3 |
| PSY 16 | Abnormal Psychology..... | 3 |
| PSY 25 | Human Sexuality..... | 3 |
| PSY 33 | Personal and Social Adjustment..... | 3 |
| SOC 1A/1AH | Introduction to Sociology, or Honors Introduction to Sociology, or Basic Sociology..... | 3 |
| SOC 160 | | |
| SOC 1B | Critical Thinking about Social Problems..... | 3 |
| SOC 2 | American Minority Groups..... | 3 |
| SOC/WSTS 5 | Sociology of Rape..... | 3 |
| SOC/WSTS 7 | Domestic Violence: Abuse Within the Family..... | 3 |
| SOC 32 | Introduction to Marriage and Family..... | 3 |
| WSTS 10 | Changing Roles of Women..... | 3 |

Notes: 1. An AS degree will be awarded to any Alcohol and Drug Abuse Counseling Certificate candidate who successfully completes a total of 60 units. The 60 units must include associate degree requirements and 36 units of course work in the major listed above.

2. Associate degree requirements are listed on page 31. General Education requirements for transfer certification are on page 39.

ALCOHOLISM AND DRUG ABUSE COUNSELING OPTION – Major #7951 *revised program, Fall 2013*

This certificate is designed for students interested in working in the field of chemical dependency. Completion of the total certificate of achievement will broaden a candidate’s understanding and assist in preparation needed to enter the field. This certificate is accredited by the California Association for Alcohol/Drug Educators (CAADE) and recognized by the other eight certifying organizations in California.

The Alcoholism and Drug Abuse Counseling Certificate program offers course work leading to a certificate of achievement.

Certificate of Achievement

Student Learning Outcomes:

1. Upon completion, the student will be eligible to take the State of California approved test to become an Alcohol and Other Drug Counselor.
2. Students will take and successfully complete the State of California approved written exam from one of the 9 certifying organizations.

Required Core Courses

| | | Units |
|-----------|--|--------------|
| HS/SOC 10 | Introduction to Aging Studies..... | 3 |
| HS 18 | Alcohol and Drug Abuse Counseling: Professional and Personal Growth..... | 2 |
| HS 19B | Work Experience (Cooperative), Occupational..... | 6 |
| HS 20 | Introduction to Social Welfare..... | 3 |
| HS 24 | Fundamentals of Interviewing and Counseling..... | 3 |
| HS 40 | Alcohol and Drug Abuse Counseling: Law and Ethics, Prevention, Education, Outreach And Referral..... | 3 |
| HS 42 | Introduction to Alcohol and Drug Counseling..... | 3 |
| HS 43 | Alcohol and Drug Abuse Counseling: Case Management..... | 3 |
| HS 44 | Drug Use: Physical and Psychological Effects..... | 3 |

Course Options: Select 7 Units

| | | Units |
|--------------|--|--------------|
| AFRAM 1 | Introduction to African American Studies, or | |
| AMIND 34 | The American Indian in Contemporary Society, or | |
| CLS/SOC 14 | Sociology of the Mexican American Community..... | 3 |
| CHDEV 5 | Parent Education..... | 3 |
| CHDEV/PSY 12 | Child Abuse..... | 3 |
| HS/WSTS 25 | Assertiveness Training..... | 2 |
| PSY 2/2H | General Psychology, or Honors General Psychology..... | 3 |
| PSY 5 | Social Psychology..... | 3 |
| PSY 16 | Abnormal Psychology..... | 3 |
| PSY 25 | Human Sexuality..... | 3 |

| | | |
|------------|---|---|
| PSY 33 | Personal and Social Adjustment | 3 |
| SOC 1A/1AH | Introduction to Sociology, or Honors Introduction to Sociology, or | |
| SOC 160 | Basic Sociology | 3 |
| SOC 1B | Critical Thinking about Social Problems | 3 |
| SOC 2 | American Minority Groups..... | 3 |
| SOC/WSTS 5 | Sociology of Rape | 3 |
| SOC/WSTS 7 | Domestic Violence: Abuse Within the Family | 3 |
| SOC 32 | Introduction to Marriage and Family | 3 |
| WSTS 10 | Changing Roles of Women | 3 |

SOCIAL WORK OPTION – Major #7631

revised program, Fall 2013

This degree is designed to prepare students for entry-level employment in a social service setting or to transfer as a junior to a baccalaureate degree program in social work. This degree is for the person who has a strong desire to help people who traditionally have been underrepresented within the larger society and require interventions and assistance in increasing control of their personal destinies. These introductory courses will give the student a good fundamental working knowledge of the social services system. The program offers course work leading to a certificate of achievement and an associate in science degree in social work. Students must take the required courses listed in the Core (see below), and select 12 units from the list of options.

Associate in Science

Student Learning Outcomes:

1. Demonstrate a fundamental working knowledge of the social services system.
2. Be prepared for entry-level employment in a social service setting.
3. Understand who are the underrepresented within our society and what might be appropriate interventions to assist them.
4. Apply the multiple perspectives of a broad liberal arts foundation to their analysis of social problems.

Required Core Courses

Units

| | | |
|-----------|---|---|
| CIT 12 | Computer Literacy | 3 |
| HS/SOC 10 | Introduction to Aging Studies | 3 |
| HS 19A | Work Experience (Cooperative), Occupational | 3 |
| HS 20 | Introduction to Social Welfare | 3 |
| HS 24 | Fundamentals of Interviewing and Counseling..... | 3 |
| HS 30 | Group and Community Social Services..... | 3 |

Course Options: Select 12 Units

Units

| | | |
|--------------|--|-----|
| AFRAM 1 | Introduction to African American Studies | 3 |
| AFRAM 2 | Cultural Adaptation of the African-American | 3 |
| AMIND 32 | American Indian History | 3 |
| AMIND 34 | The American Indian in Contemporary Society | 3 |
| ANTHRO 2/2H | Cultural Anthropology, or Honors Cultural Anthropology | 3 |
| AMST 10 | American Pluralism: A Search for Common Ground in a Multicultural Society | 3 |
| ASAMER 15 | Introduction to Asian-Americans | 3 |
| ASL 1 | Beginning American Sign Language | 4 |
| CHDEV 5 | Parent Education..... | 3 |
| CHDEV 30 | Child, Family and Community, or | |
| SOC 31 | The Child in Society: A Social Problems Approach | 3 |
| CHDEV/PSY 38 | Lifespan Development..... | 3 |
| CHDEV/PSY 39 | Child Growth and Development | 3 |
| CLS 11 | Introduction to Chicano-Latino Studies..... | 3 |
| CLS/SOC 14 | Sociology of the Mexican American Community | 3 |
| CLS 30 | The Mexican American Family: Social and Psychological Perspectives..... | 3 |
| COMM 1 | Introduction to Public Speaking | 3 |
| FN 35 | Nutrition and Health, or | |
| FN/WSTS 43 | Women’s Nutrition..... | 2-3 |
| HMONG 1 | Beginning Hmong..... | 5 |
| HS/WSTS 25 | Assertiveness Training | 2 |
| HS 44 | Drug Use: Physical and Psychological Effects | 3 |
| SOC 1A/1AH | Introduction to Sociology, or Honors Introduction to Sociology, or | |
| SOC 160 | Basic Sociology | 3 |
| SOC 2 | American Minority Groups..... | 3 |

| | | |
|------------|--|---|
| SOC/WSTS 5 | Sociology of Rape | 3 |
| SOC/WSTS 7 | Domestic Violence: Abuse Within the Family | 3 |
| SOC 32 | Introduction to Marriage and Family | 3 |
| SPAN 1 | Beginning Spanish | 5 |
| WSTS 10 | Changing Roles of Women | 3 |

Note: An associate in science degree will be awarded on the successful completion of 60 units. See page 33 for associate degree requirements. General education requirements for transfer certification are on page 39.

For career options, consult with Human Services staff.

SOCIAL WORK OPTION – Major #7631

revised program, Fall 2013

This certificate of achievement is designed to prepare students for entry-level employment in a social service setting or to transfer as a junior to a baccalaureate degree program in social work. This program is for the person who has a strong desire to help people who traditionally have been underrepresented within the larger society and require interventions and assistance in increasing control of their personal destinies. These introductory courses will give the student a good fundamental working knowledge of the social services system. The certificate of achievement offers course work leading to a certificate of achievement in Human Services Social Work Option. Students must take the required courses listed in the Core (see below), and select 12 units from the list of options.

Certificate of Achievement

Student Learning Outcomes:

1. Demonstrate a fundamental working knowledge of the social services system.
2. Be prepared for entry-level employment in a social service setting.
3. Understand who are the underrepresented within our society and what might be appropriate interventions to assist them.
4. Apply the multiple perspectives of a broad liberal arts foundation to their analysis of social problems.

Required Core Courses

Units

| | | |
|-----------|---|---|
| CIT 12 | Computer Literacy | 3 |
| HS/SOC 10 | Introduction to Aging Studies | 3 |
| HS 19A | Work Experience (Cooperative), Occupational | 3 |
| HS 20 | Introduction to Social Welfare | 3 |
| HS 24 | Fundamentals of Interviewing and Counseling..... | 3 |
| HS 30 | Group and Community Social Services..... | 3 |

Course Options: Select 12 Units

Units

| | | |
|--------------|---|-----|
| AFRAM 1 | Introduction to African American Studies | 3 |
| AFRAM 2 | Cultural Adaptation of the African-American | 3 |
| AMIND 32 | American Indian History | 3 |
| AMIND 34 | The American Indian in Contemporary Society | 3 |
| ANTHRO 2/2H | Cultural Anthropology, or Honors Cultural Anthropology | 3 |
| AMST 10 | American Pluralism: A Search for Common Ground in a Multicultural Society | 3 |
| ASAMER 15 | Introduction to Asian-Americans | 3 |
| ASL 1 | Beginning American Sign Language | 4 |
| CHDEV 5 | Parent Education..... | 3 |
| CHDEV 30 | Child, Family and Community, or SOC 31 The Child in Society: A Social Problems Approach..... | 3 |
| CHDEV/PSY 38 | Lifespan Development..... | 3 |
| CHDEV/PSY 39 | Child Growth and Development | 3 |
| CLS 11 | Introduction to Chicano-Latino Studies..... | 3 |
| CLS/SOC 14 | Sociology of the Mexican American Community | 3 |
| CLS 30 | The Mexican American Family: Social and Psychological Perspectives..... | 3 |
| COMM 1 | Introduction to Public Speaking..... | 3 |
| FN 35 | Nutrition and Health, or FN/WSTS 43 Women’s Nutrition | 2-3 |
| HMONG 1 | Beginning Hmong..... | 5 |
| HS/WSTS 25 | Assertiveness Training | 2 |
| HS 44 | Drug Use: Physical and Psychological Effects..... | 3 |
| SOC 1A/1AH | Introduction to Sociology, or Honors Introduction to Sociology, or | |
| SOC 160 | Basic Sociology | 3 |
| SOC 2 | American Minority Groups..... | 3 |

| | | |
|------------|--|---|
| SOC/WSTS 5 | Sociology of Rape | 3 |
| SOC/WSTS 7 | Domestic Violence: Abuse Within the Family | 3 |
| SOC 32 | Introduction to Marriage and Family | 3 |
| SPAN 1 | Beginning Spanish | 5 |
| WSTS 10 | Changing Roles of Women | 3 |

For career options, consult with Human Services staff.

HUMANITIES

HUMANITIES – Major #5330

revised program, Fall 2013

A Humanities major is ideal for students seeking an integrated liberal arts education, either as a pre-professional major or as a self-enrichment program. The program is designed to help students develop a diverse understanding and appreciation of world cultures past and present. The Humanities major requirements provide a curriculum that allows for the development of critical thinking, reading, and writing, as well as the development of a creative imagination. A Humanities major is valuable to a student planning to transfer to a four-year institution, whether as a major in humanities or some other field, and will enhance preparation for a wide range of career opportunities.

Associate in Arts Degree

Student Learning Outcomes:

1. Recognize the significance of the interrelationships between cultures and their art forms.
2. Discern a sense of continuity in the history of ideas.
3. Critically read literature, philosophy, and drama in translation.

Requirements within program (18 units)

| Select 18 units from the list below: | Units |
|---|--------------|
| HUMAN 10/10H Classical Humanities, or Honors Classical Humanities | 3 |
| HUMAN 11/11H Modern Humanities, or Honors Modern Humanities..... | 3 |
| ENGL 12 The Bible as Literature, or ENGL/HUMAN 42 Classic Myths, or PHIL 1D World Religions | 3 |
| ENGL 1B/1BH Introduction to the Study of Literature, or Honors Introduction to the Study of Literature, or ENGL 44A World Literature to the Renaissance, or ENGL 44B World Literature since the Renaissance, or ENGL 45 Contemporary World Literature, or ENGL 46A English Literature to 1800, or ENGL 46B English Literature from 1800 to the Present, or ENGL 48A Introduction to American Literature to World War I, or ENGL 48B Intro to American Literature World War I to the Present..... | 3 |
| PHIL 1A/1AH Theories of Knowledge and Reality, or Honors Theories of Knowledge and Reality, or PHIL 1B Social and Political Philosophy, or PHIL 1C Ethics, or PHIL 5 Philosophy of Religion..... | 3 |
| CLS 21 Chicano Literature, or TA 30 Theatre Appreciation, or TA 31 Theatre History and Dramatic Literature I, or TA 32 Theatre History and Dramatic Literature, or ART 6/6H Art History 2, or Honors Art History 2, or ART 55 Introduction to Asian Art, or ART 60 Pre-Columbia Art, or MUS 12 Music Appreciation, or MUS 13 History of Music, or MUS 14 Opera Appreciation, or MUS 16 Jazz History and Appreciation..... | 3 |

INDUSTRIAL ARTS AND TECHNOLOGY

INDUSTRIAL ARTS AND TECHNOLOGY – Major #8991

program revised, Spring 2013

The student interested in a career teaching industrial arts and technology may complete the lower division requirements at Fresno City College and transfer as a junior at the end of two years. The sample program shown parallels lower division at

California State University, Fresno, and is acceptable for majors in this area. Students should carefully check the lower division requirements of other colleges to which they plan to transfer for minor variations. This program has been articulated with the California State University, Fresno Industrial Arts Department since spring semester 1974.

Associate in Science Degree

| | | |
|-----------------------|--------------------------|--------------|
| First Year | | |
| First Semester | | Units |
| AT 11 | Basic Electricity | 3 |
| DRAFT 12 | Drafting Practices | 3 |
| | | Total 6 |

| | | |
|------------------------|-----------------------------|--------------|
| Second Semester | | Units |
| AUTOT 9 | Automotive Essentials | 3 |

| | | |
|-----------------------|--|--------------|
| Second Year | | |
| First Semester | | Units |
| AT 10 | Technical Computer Applications | 3 |
| AT 40 | Preparing for Employment Opportunities | 3 |
| Elective | ..... | 3 |
| | | Total 9 |

Recommended Electives: ARCH 12; WELD 1.

Note: Associate in science degree requirements are listed on page 33.

INDUSTRIAL TECHNOLOGY

CONSTRUCTION OPTION – Major #8240

revised program, Spring 2013

Associate in Science Degree

| | | |
|-----------------------|--------------------------------|--------------|
| First Year | | |
| First Semester | | Units |
| ARCH 12 | Architectural Practice I | 3 |
| ENGL 1A | Reading and Composition | 4 |
| MATH 5A | Mathematical Analysis I | 5 |
| PHYS 2A | General Physics 1 | 4 |
| Physical Education | ..... | 1 |
| | | Total 17 |

| | | |
|------------------------|-------------------------------------|--------------|
| Second Semester | | Units |
| AT 11 | Basic Electricity | 3 |
| BIOL, CHEM or GEOL | ..... | 4 |
| COMM 1 | Introduction to Public Speaking, or | |
| COMM 2 | Interpersonal Communication | 3 |
| ENGR 1A | Elementary Plane Surveying 1 | 4 |
| ENGR 2 | Graphics..... | 4 |
| | | Total 18 |

| | | |
|--------------------------|---|--------------|
| Second Year | | |
| First Semester | | Units |
| AT 10 | Technical Computer Applications | 3 |
| BIOL, CHEM or PHYS 2B | ..... | 3 - 4 |
| ECON 1A/1AH | Introduction to Macroeconomics, or Honors Introduction to Macroeconomics | 3 |
| ENGL 1B/1BH | Introduction to the Study of Literature, or Honors Introduction to the Study of Literature, or | |
| PHIL 1A/1AH | Theories of Knowledge and Reality, or Honors Theories of Knowledge and Reality | 3 |
| POLSCI 2 | American Government | 3 |
| Physical Education | ..... | 1 |
| | | Total 16-17 |

Second Semester Units

| | | |
|--------------------|---|---|
| ARCH 21 | Materials of Construction..... | 3 |
| ECON 1B/1BH | Introduction to Microeconomics, or Honors Introduction to Microeconomics | 3 |
| Fine Arts Elective | ..... | 3 |
| HIST 11 | History of the United States to 1877, or | |
| HIST 12 | History of the United States since 1877 | 3 |
| HLTH 1 | Contemporary Health Issues..... | 3 |
| Physical Education | ..... | 1 |
| | Total 16 | |

Recommended Electives: AT 21; CONS 19, 51, 53; ARCH 10, 23, 24, 30, 33, 42.

Note: Associate degree requirements are listed on page 33.

CONSTRUCTION OPTION – Major #8240

revised program, Fall 2013

Associate in Science Degree

First Year

| First Semester | | Units |
|-----------------------|--------------------------------|--------------|
| ARCH 12 | Architectural Practice I | 3 |
| ENGL 1A | Reading and Composition | 4 |
| MATH 5A | Mathematical Analysis I..... | 5 |
| PHYS 2A | General Physics 1 | 4 |
| Physical Education | ..... | 1 |
| | Total 17 | |

| Second Semester | | Units |
|------------------------|-------------------------------------|--------------|
| AT 11 | Basic Electricity | 3 |
| BIOL, CHEM or GEOL | ..... | 4 |
| COMM 1 | Introduction to Public Speaking, or | |
| COMM 2 | Interpersonal Communication | 3 |
| ENGR 1A | Elementary Plane Surveying 1 | 4 |
| ENGR 2 | Graphics..... | 4 |
| | Total 18 | |

Second Year

| First Semester | | Units |
|--------------------------|---|--------------|
| AT 10 | Technical Computer Applications..... | 3 |
| BIOL, CHEM or PHYS 2B | ..... | 3 - 4 |
| ECON 50/50H | Introduction to Macroeconomics, or Honors Introduction to Macroeconomics | 3 |
| ENGL 1B/1BH | Introduction to the Study of Literature, or Honors Introduction to the Study of Literature, or | |
| PHIL 1A/1AH | Theories of Knowledge and Reality, or Honors Theories of Knowledge and Reality | 3 |
| POLSCI 2 | American Government | 3 |
| Physical Education | ..... | 1 |
| | Total 16-17 | |

Second Semester Units

| | | |
|--------------------|---|---|
| ARCH 21 | Materials of Construction..... | 3 |
| ECON 40/40H | Introduction to Microeconomics, or Honors Introduction to Microeconomics | 3 |
| Fine Arts Elective | ..... | 3 |
| HIST 11 | History of the United States to 1877, or | |
| HIST 12 | History of the United States since 1877 | 3 |
| HLTH 1 | Contemporary Health Issues..... | 3 |
| Physical Education | ..... | 1 |
| | Total 16 | |

Recommended Electives: AT 21; CONS 19, 51, 53; ARCH 10, 23, 24, 30, 33, 42.

Note: Associate degree requirements are listed on page 33.

MANUFACTURING OPTION – Major #8260

revised program, Spring 2013

Associate in Science Degree

First Year

| First Semester | | Units |
|-----------------------|------------------------------------|--------------|
| CHEM 3A | Introductory General Chemistry, or | |
| PHYS 2A | General Physics 1 | 4 |
| DRAFT 12 | Drafting Practices | 3 |
| ENGL 1A | Reading and Composition | 4 |
| MATH 5A | Mathematical Analysis I..... | 5 |
| Physical Education | ..... | 1 |
| | | Total 17 |

Second Semester Units

| | | |
|--------------------|-------------------------------------|----------|
| AT 11 | Basic Electricity | 3 |
| BIOL or GEOL | ..... | 4 |
| COMM 1 | Introduction to Public Speaking, or | |
| COMM 2 | Interpersonal Communication | 3 |
| ENGR 11 | Manufacturing Processes..... | 3 |
| Physical Education | ..... | 1 |
| | | Total 14 |

Second Year

| First Semester | | Units |
|-----------------------|--|--------------|
| CHEM 3A | Introductory General Chemistry, or | |
| PHYS 2B | General Physics | 2 |
| ECON 1A/1AH | Introduction to Macroeconomics, or | |
| | Honor Introduction to Macroeconomics..... | 3 |
| ENGL 1B/1BH | Introduction to the Study of Literature, or | |
| | Honors Introduction to the Study of Literature, or | |
| PHIL 1A/1AH | Theories of Knowledge and Reality, or | |
| | Honors Theories of Knowledge and Reality | 3 |
| Physical Education | ..... | 1 |
| POLSCI 2 | American Government | 3 |
| WELD 1 | Exploring Welding/Metals..... | 3 |
| | | Total 15 |

Second Semester

| | | Units |
|--------------------|---|--------------|
| ECON 1B/1BH | Introduction to Microeconomics, or | |
| | Honors Introduction to Microeconomics | 3 |
| Fine Arts Elective | ..... | 3 |
| HIST 11 | History of the United States to 1877, or | |
| HIST 12 | History of the United States since 1877 | 3 |
| HLTH 1 | Contemporary Health Issues..... | 3 |
| Physical Education | ..... | 1 |
| | | Total 13 |

Recommended Electives: AT 21; GRC 10; and WELD 19.

Note: Associate degree requirements are listed on page 33.

MANUFACTURING OPTION – Major #8260

revised program, Fall 2013

Associate in Science Degree

First Year

| First Semester | | Units |
|-----------------------|------------------------------------|--------------|
| CHEM 3A | Introductory General Chemistry, or | |
| PHYS 2A | General Physics 1 | 4 |
| DRAFT 12 | Drafting Practices | 3 |
| ENGL 1A | Reading and Composition | 4 |
| MATH 5A | Mathematical Analysis I..... | 5 |
| Physical Education | ..... | 1 |
| | | Total 17 |

Second Semester Units

| | | |
|--------------------|-------------------------------------|----|
| AT 11 | Basic Electricity | 3 |
| BIOL or GEOL | ..... | 4 |
| COMM 1 | Introduction to Public Speaking, or | |
| COMM 2 | Interpersonal Communication | 3 |
| ENGR 11 | Manufacturing Processes..... | 3 |
| Physical Education | ..... | 1 |
| | Total | 14 |

Second Year

First Semester

| | Units | |
|--------------------|--|----|
| CHEM 3A | Introductory General Chemistry, or | |
| PHYS 2B | General Physics | 2 |
| ECON 50/50H | Introduction to Macroeconomics, or | |
| | Honor Introduction to Macroeconomics..... | 3 |
| ENGL 1B/1BH | Introduction to the Study of Literature, or | |
| | Honors Introduction to the Study of Literature, or | |
| PHIL 1A/1AH | Theories of Knowledge and Reality, or | |
| | Honors Theories of Knowledge and Reality | 3 |
| Physical Education | ..... | 1 |
| POLSCI 2 | American Government | 3 |
| WELD 1 | Exploring Welding/Metals..... | 3 |
| | Total | 15 |

Second Semester

| | Units | |
|--------------------|---|----|
| ECON 40/40H | Introduction to Microeconomics, or | |
| | Honors Introduction to Microeconomics | 3 |
| Fine Arts Elective | ..... | 3 |
| HIST 11 | History of the United States to 1877, or | |
| HIST 12 | History of the United States since 1877 | 3 |
| HLTH 1 | Contemporary Health Issues..... | 3 |
| Physical Education | ..... | 1 |
| | Total | 13 |

Recommended Electives: AT 21; GRC 10; and WELD 19.

Note: Associate degree requirements are listed on page 33.

JOURNALISM

JOURNALISM – Major #5351

revised program, Fall 2013

The Journalism Major at Fresno City College is designed to introduce students to the mass media, both as consumers and as potential practitioners. The program focuses on the theory and practice of gathering, processing, and delivering news and that prepares individuals to be professional print journalists, news editors, and news managers. It includes instruction in news writing and editing; reporting; photojournalism; layout and graphic design; journalism law and policy; professional standards and ethics; and journalism history and criticism. All students are encouraged to meet with a counselor.

Associate in Arts Degree

Student Learning Outcomes:

1. Demonstrate an understanding of journalistic responsibility.
2. Analyze the impact of mass media on American society and its diverse communities.
3. Describe how the major mass media operate and comprehend their contribution to American society and the world.
4. Write and edit news stories.
5. Meet journalistic deadlines.
6. Demonstrate the uses of photography, graphics and newspaper layout in media productions.

Required Core Courses

| | Units | |
|----------|--|---|
| JOURN 1 | Introduction to Mass Communication | 3 |
| JOURN 3 | Newswriting | 3 |
| JOURN 16 | Race, Gender, and the Media | 3 |
| | Total | 9 |

Department Publication Requirement

| | Units | |
|---------|---------------------------------------|---|
| JOURN 4 | Writing for the College Newspaper, or | |
| JOURN 5 | Newspaper Production | 3 |
| JOURN 6 | Magazine Production..... | 3 |

Total 6

| Complete a total of twelve (12) units from the courses listed below | | Units |
|--|---|--------------|
| ART 5/5H | Art History 1, or Honors Art History 1 | 3 |
| ECON 50/50H | Introduction to Macroeconomics, or Honors Introduction to Macroeconomics | 3 |
| GRC 10 | Introduction to Graphic Communications | 2 |
| GRC 41 | Visual Communications | 3 |
| JOURN 2 | Interpreting Current Events | 3 |
| JOURN 9 | Feature Writing | 3 |
| JOURN 15 | Basic Editing for Journalists | 2 |
| JOURN 19 | Work Experience (Cooperative), Occupational | 1-8 |
| PHIL 1C | Ethics | 3 |
| PHOTO 30 | Editorial Photography | 3 |

LIBERAL ARTS

LIBERAL ARTS DEGREE WITH AN EMPHASIS IN AMERICAN SIGN LANGUAGE – Major #5101 *revised program, Fall 2013*

This program is designed to acquaint students with ASL and with an understanding of the cultural and history of the people who use the Language. It will also encourage them to appreciate the complexities of the multicultural society in which they live. Students will acquire the necessary sign language skills to succeed in everyday life experiences, vocational programs, and university transfer courses.

Associate in Arts Degree

Student Learning Outcomes:

1. Students will acquire and demonstrate signing skills at the intermediate-advanced level of the target language consistent with national standards for foreign language education.
2. Students will show evidence of the acquisition and application of grammatical structures when using American Sign Language.
3. Students will acquire and demonstrate skills necessary to analyze, compare and contrast cultures and practices between Deaf and hearing cultures.
4. Students will demonstrate familiarity with technologies allowing them to access sources in the following areas: current news from the target language, bibliographical and other sources related to coursework, contemporary culture sources, and interactive communication sites.

List of classes recommended (minimum of 18 units)

Courses taken at Fresno City College can be transferred to other colleges and universities. Currently, Fresno City College has a transfer agreement with University of California Santa Cruz, Berkeley, Riverside and Davis. In addition, University of California at Santa Barbara and San Diego and Fresno State University accept Fresno City College students who comply with transfer requirements.

18 units from the following:

| | Units | |
|-------|--|---|
| ASL 2 | High-Beginning American Sign Language..... | 4 |
| ASL 3 | Intermediate American Sign Language | 4 |
| ASL 4 | High-Intermediate American Sign Language..... | 4 |
| ASL 5 | Deaf Culture | 3 |
| ASL 6 | Structure of American Sign Language..... | 3 |
| ASL 7 | Deaf History | 3 |
| ASL 8 | American Sign Language Literature/Folklore | 3 |

LIBERAL ARTS DEGREE WITH AN EMPHASIS IN ANTHROPOLOGY/ECONOMICS/GEOGRAPHY – Major #5101 *revised program, Fall 2013*

This program is designed to acquaint students with the diversity of human culture, the environments in which cultures exist, the patterns of resource use that they practice, and the effects of modern economic practices and globalization on the peoples of the world. This area of emphasis will be an ideal choice for students for students planning to transfer to the California State University or University of California as students can satisfy their general education requirements, plus focus on transferable course work that relates to majors at the specific college/university of his/her choice. With this emphasis students could major in any of the three disciplines or other majors at various transfer institutions that focus on international/global issues.

ASSOCIATE IN ARTS DEGREE

Student Learning Outcomes:

1. Be academically prepared to transfer to a four-year college.
2. Be prepared to enter the workforce and society with the skills and knowledge needed to effectively interact with people from other cultures.
3. Have an awareness of the rich cultural and geographic diversity of the world.

4. Have the ability to apply economic concepts to understand the effects of globalization on world cultures.
5. Have developed skills in critical thinking.

| 18 units with 6 units from each discipline: | | Units |
|--|---|--------------|
| ANTHRO 1 | Biological Anthropology | 3 |
| ANTHRO 2/2H | Cultural Anthropology, or Honors Cultural Anthropology | 3 |
| ANTHRO 3 | Archaeology and World Prehistory | 3 |
| ANTHRO 13 | Anthropology of Magic, Witchcraft, and Religion | 3 |
| ANTHRO 20 | Native Peoples of California | 3 |
| ANTHRO/CLS 28 | Ancient Mexico | 3 |
| ECON 40/40H | Introduction to Microeconomics, or Honors Introduction to Microeconomics | 3 |
| ECON 50/50H | Introduction to Macroeconomics, or Honors Introduction to Macroeconomics | 3 |
| GEOG 2 | Cultural Geography | 3 |
| GEOG 4A | World Geography | 3 |
| GEOG 4B | World Geography | 3 |
| GEOG 20 | Geography in California..... | 3 |

LIBERAL ARTS DEGREE WITH AN EMPHASIS IN ASIAN LANGUAGES – Major #5111 *revised program, Fall 2013*

This program is designed to acquaint students with Asian Languages and with an understanding of the culture and history of the people who speak it. The study of foreign languages encourages students to examine assumptions they have uncritically accepted before their college experience. Baccalaureate majors in this area may include degrees in any one of the Asiatic languages offered in this program. It will also encourage them to appreciate the complexities of the multicultural society in which they live. Students will acquire the necessary language skills to succeed in everyday life experiences, vocational programs, and university transfer courses.

Associate in Arts Degree

Student Learning Outcomes:

1. Students will demonstrate listening, speaking, reading, and writing skills at the intermediate-advanced level of the target education.
2. Students will show evidence of the acquisition and application of grammatical structures when using the languages.
3. Students will demonstrate skills necessary to analyze and compare and contrast cultures and practices of the target language with their own culture.
4. Students will demonstrate familiarity with technologies allowing them to access sources in the following areas: current news from the target country, bibliographical and other sources related to coursework, contemporary culture sources, and interactive communication sites.

19-20 units from the following courses (At least two different languages): Units

| | | |
|---------|---|---|
| ARMEN 2 | High-Beginning Armenian | 5 |
| ARMEN 3 | Intermediate Armenian | 5 |
| CHIN 2 | High-Beginning Chinese..... | 5 |
| CHIN 3 | Intermediate Chinese | 5 |
| CHIN 4 | High-Beginning Chinese..... | 5 |
| CHIN 5 | Chinese Short Stories and Culture | 4 |
| HMONG 2 | High-Beginning Hmong | 5 |
| JAPAN 2 | High-Beginning Japanese | 5 |

In addition, 3 units from the following courses **Units**

| | | |
|-----------|---------------------------------------|---|
| ASAMER 1 | Indo-Chinese Americans | 3 |
| ASAMER 10 | Hmong Culture | 3 |
| ASAMER 15 | Introduction to Asian-Americans | 3 |
| ASAMER 20 | Asian-American Literature..... | 3 |

Total 22-23

LIBERAL ARTS DEGREE WITH EMPHASIS IN CULTURAL STUDIES– Major #5121 *revised program, Fall 2013*

This program is designed to acquaint students with the diversity of cultures, particularly within American society. The program offers a broad foundation for the study of cultures as well as classes specific to various ethnic cultures within the United States.

Associate in Arts Degree

Student Learning Outcomes:

1. Be academically prepared to transfer to a four-year college.

2. Be prepared to enter the workforce and society with a cultural awareness that facilitates consideration of different cultures and cultural norms.
3. Have an understanding of the rich cultural diversity of the United States.
4. Have developed skills critical thinking.

18 units from any of the following (but no more than 6 units from each discipline)

| | Units |
|--------------------|--|
| AFRAM 1 | Introduction to African American Studies 3 |
| AFRAM 2 | Cultural Adaptation of the African-American 3 |
| AFRAM 4 | Classical and Pre Colonial Africa 3 |
| AFRAM 5 | The Africans of the New World..... 3 |
| AFRAM 6 | African Cultures and Languages 3 |
| AFRAM/ WSTS 41 | African-American Women's Studies 3 |
| AMIND 31 | American Indian Culture 3 |
| AMIND 32 | American Indian History 3 |
| AMIND 34 | The American Indian in Contemporary Society 3 |
| ANTHRO 2/2H | Cultural Anthropology, or Honors Cultural Anthropology 3 |
| ANTHRO 20 | Native Peoples of California 3 |
| ANTHRO/CLS 28 | Ancient Mexico 3 |
| ASAMER 1 | Indo-Chinese Americans 3 |
| ASAMER 10 | Hmong Culture 3 |
| ASAMER 15 | Introduction to Asian-Americans 3 |
| ASAMER 25 | Asian American Social Issues 3 |
| ASAMER/ WSTS 30 | Asian-American Women..... 3 |
| AMST 10 | American Pluralism: A Search for Common Ground in a Multicultural Society 3 |
| CLS 11 | Introduction to Chicano-Latino Studies..... 3 |
| CLS 12 | Mexican American History..... 3 |
| CLS 13 | Politics and the Chicano-Latino Community..... 3 |
| CLS/SOC 14 | Sociology of the Mexican American Community 3 |
| CLS/WSTS 24 | La Chicana and Latina 3 |
| CLS/HIST 29 | History Of Mexico, Colonial to Contemporary Period 3 |
| CLS 30 | The Mexican American Family: Social and Psychological Perspectives 3 |
| CHDEV 15 | Diversity and Culture in Early Care and Education Programs.. 3 |
| GEOG 2 | Cultural Geography 3 |
| GEOG 4A | World Geography 3 |
| GEOG 4B | World Geography 3 |
| GEOG 20 | Geography of California 3 |
| POLSCI 24 | International Relations..... 3 |
| SOC 1B | Critical Thinking about Social Problems 3 |
| SOC 2 | American Minority Groups..... 3 |
| WSTS 10 | Changing Roles of Women 3 |

LIBERAL ARTS WITH AN EMPHASIS IN FOREIGN LANGUAGE – Major #5134

revised program, Fall 2013

This program is designed to acquaint students with foreign languages and with an understanding of the culture and history of the people who speak them. The study of foreign languages encourages students to examine assumptions they have uncritically accepted before their college experience. Students with substantial foreign language fluency who combine their language skills with a solid foundation in liberal education will find fulfilling occupations. It will also encourage them to appreciate the complexities of the multicultural society in which they live. Students will acquire the necessary language skills to succeed in everyday life experiences, vocational programs, and university transfer courses.

Associate in Arts Degree

Student Learning Outcomes:

1. Students will demonstrate listening, speaking, reading, and writing skills at the intermediate-advanced level of the target language consistent with national standards for foreign language education.
2. Students will show evidence of the acquisition and application of grammatical structures when using language.
3. Students will demonstrate skills necessary to analyze and compare and contrast cultures and practices of the target language with their own culture.
4. Students will demonstrate familiarity with technologies allowing them to access sources in the following areas: current news from the target country, bibliographical and other sources related to coursework, contemporary culture sources, and interactive communication sites.

Choose from the following:

| Minimum of 20 units in at least two foreign languages | | Units |
|--|---|--------------|
| ARMEN 2 | High-Beginning Armenian | 5 |
| ARMAN 3 | Intermediate Armenian | 5 |
| CHIN 2 | High-Beginning Chinese..... | 5 |
| CHIN 3 | Intermediate Chinese | 5 |
| CHIN 4 | High-Intermediate Chinese..... | 5 |
| CHIN 5 | Chinese Short Stories and Culture | 4 |
| FRENCH 2 | High-Beginning French..... | 5 |
| FRENCH 3 | Intermediate French | 5 |
| FRENCH 4 | High-Intermediate French..... | 5 |
| GERMAN 2 | High-Beginning German..... | 5 |
| GERMAN 3 | Intermediate German | 5 |
| GERMAN 4 | High-Intermediate German | 5 |
| HMONG 2 | High-Beginning Hmong | 5 |
| JAPAN 2 | High-Beginning Japanese | 5 |
| PORT 2 | High-Beginning Portuguese | 5 |
| PORT 3 | Intermediate Portuguese | 5 |
| PORT 4 | High-Intermediate Portuguese | 5 |
| SPAN 2 | High-Beginning Spanish..... | 5 |
| SPAN 3 | Intermediate Spanish | 5 |
| SPAN 3NS | Intermediate Spanish for Spanish Speakers | 5 |
| SPAN 4 | High-Intermediate Spanish..... | 5 |
| SPAN 4NS | High-Intermediate Spanish for Spanish Speakers..... | 5 |
| SPAN 5 | The Short Story: Mexico, Spain, and the U.S. | 4 |
| SPAN 6 | The Short Story: Latin America | 4 |
| SPAN 7 | Advanced Spanish: Composition and Grammar | 4 |
| SPAN 8 | Advanced Spanish Conversation | 4 |

LIBERAL ARTS DEGREE WITH AN EMPHASIS IN PHILOSOPHY/HUMANITIES – Major #5161

program deleted, Fall 2013

LIBERAL ARTS DEGREE WITH AN EMPHASIS IN ROMANCE LANGUAGES – Major #5168

revised program, Fall 2013

This program is designed to acquaint students with the Romance languages and with an understanding of the culture and history of the people who speak them. The study of foreign languages encourages students to examine assumptions they have uncritically accepted before their college experience. Students will have a number of rich opportunities to explore the languages, literatures, and cultures of the Spanish, Portuguese, and French-speaking worlds. It will also encourage them to appreciate the complexities of the multicultural society in which they live. This emphasis will assure fluency in at least two Romance languages, as well as knowledge of the cultures they represent. Students will acquire the necessary language skills to succeed in everyday life experiences, vocational programs, and university transfer courses.

Associate in Arts Degree

Student Learning Outcomes:

1. Students will demonstrate listening, speaking, reading, and writing skills at the intermediate-advanced level of the target language consistent with national standards for foreign language education.
2. Students will show evidence of the acquisition and application of grammatical structures when using language.
3. Students will demonstrate skills necessary to analyze and compare and contrast cultures and practices of the target language with their own culture.
4. Students will demonstrate familiarity with technologies allowing them to access sources in the following areas: current news from the target country, bibliographical and other sources related to coursework, contemporary culture sources, and interactive communication sites.

Choose from the following courses:

| (At least two different languages) for a total of 25 units | | Units |
|---|---|--------------|
| FRENCH 2 | High-Beginning French..... | 5 |
| FRENCH 3 | Intermediate French | 5 |
| FRENCH 4 | High-Intermediate French..... | 5 |
| PORT 2 | High-Beginning Portuguese | 5 |
| PORT 3 | Intermediate Portuguese | 5 |
| PORT 4 | High-Intermediate Portuguese | 5 |
| SPAN 2 | High-Beginning Spanish..... | 5 |
| SPAN 3 | Intermediate Spanish, or | |
| SPAN 3NS | Intermediate Spanish for Spanish Speakers | 5 |
| SPAN 4 | High-Intermediate Spanish, or | |
| SPAN 4NS | High-Intermediate Spanish for Spanish Speakers..... | 5 |

LIBERAL ARTS DEGREE WITH EMPHASIS IN SOCIAL SCIENCES– Major #5176

revised program, Fall 2013

A program designed to acquaint the students with the diversity of subjects in the Social Sciences. The Social Sciences offer a broad study in human behavior. This area of emphasis will be an ideal choice for students planning to transfer to the California State University or University of California as students can satisfy their general education requirements, plus focus on transferable course work that relates to majors in liberal arts or liberal studies at CSU or UC. Each student should consult with a counselor for specific information regarding intended majors at the specific college/university of his/her choice.

Associate in Arts Degree

Student Learning Outcomes

1. Be academically prepared to transfer to a four-year college.
2. Be prepared to analyze the influence of culture, economics, family, and society on individual development.
3. Identify the consequences of bias on social interactions.
4. Have developed skills in critical thinking.

18 units from any of the following courses (but no more than 6 units in one discipline)

| | Units |
|---|--------------|
| AFRAM 1 Introduction to African American Studies | 3 |
| AFRAM 3 African-American Art | 3 |
| AMIND 31 American Indian Culture..... | 3 |
| AMIND 32 American Indian History | 3 |
| ANTHRO 2/2H Cultural Anthropology, or Honors Cultural Anthropology | 3 |
| ANTHRO 3 Archaeology and World Prehistory..... | 3 |
| ANTHRO 13 Anthropology of Magic, Witchcraft, and Religion..... | 3 |
| ASAMER 1 Indo-Chinese Americans | 3 |
| ASAMER 15 Introduction to Asian-Americans | 3 |
| AMST 10 American Pluralism: A Search for Common Ground in a Multicultural Society | 3 |
| CHDEV/PSY 39 Child Growth and Development | 3 |
| CLS 11 Introduction to Chicano-Latino Studies..... | 3 |
| CLS 12 Mexican American History..... | 3 |
| ECON 40/40H Introduction to Microeconomics, or Honors Introduction to Microeconomics | 3 |
| ECON 50/50H Introduction to Macroeconomics, or Honors Introduction to Macroeconomics | 3 |
| GEOG 2 Cultural Geography | 3 |
| GEOG 4A World Geography | 3 |
| GEOG 4B World Geography | 3 |
| HIST 1/1H Western Civilization to 1648, or Honors Western Civilization to 1648 | 3 |
| HIST 2/2H Western Civilization since 1648, or Honors Western Civilization since 1648 | 3 |
| HIST 15 History of the British Isles..... | 3 |
| HIST 17 History of Islam | 3 |
| HIST 18 History of Ancient Greece | 3 |
| HIST 21 United States Civil War | 3 |
| HIST 22 History of American Women..... | 3 |
| HIST 29 History of Mexico, Colonial to Contemporary Period..... | 3 |
| HIST 30 California History | 3 |
| HIST 34 History of the American Civil Rights Movement | 3 |
| HS 20 Introduction to Social Welfare | 3 |
| POLSCI 1 Modern Politics..... | 3 |
| POLSCI 5 Comparative Government | 3 |
| POLSCI 24 International Relations..... | 3 |
| PSY 2/2H General Psychology, or Honors General Psychology..... | 3 |
| PSY 5 Social Psychology | 3 |
| PSY 15 Psychology of Religion | 3 |
| PSY 25 Human Sexuality | 3 |
| PSY 33 Personal and Social Adjustment | 3 |
| SOC 1A/1AH Introduction to Sociology, or Honors Introduction to Sociology | 3 |
| SOC 1B Critical Thinking about Social Problems..... | 3 |
| SOC 2 American Minority Groups..... | 3 |
| SOC 10 Introduction to Aging Studies | 3 |
| SOC 14 Sociology of the Mexican American Community | 3 |

| | | |
|---------|---|---|
| SOC 31 | The Child in Society: A Social Problems Approach..... | 3 |
| SOC 32 | Introduction to Marriage and Family | 3 |
| WSTS 10 | Changing Roles of Women | 3 |

LIBERAL ARTS DEGREE WITH AN EMPHASIS IN SPANISH– Major #5183

revised program, Fall 2013

This program is designed to acquaint students with the Spanish language and with an understanding of the culture and history of the people who speak it. The study of foreign languages encourages students to examine assumptions they have uncritically accepted before their college experience. Students with substantial foreign language fluency who combine their language skills with a solid foundation in liberal education will find fulfilling occupations. It will also encourage them to appreciate the complexities of the multicultural society in which they live. Students will acquire the necessary language skills to succeed in everyday life experiences, vocational programs, and university transfer courses.

Associate in Arts Degree

Student Learning Outcomes:

1. Students will demonstrate listening, speaking, reading, and writing skills at the intermediate-advanced level of the target language consistent with national standards for foreign language education.
2. Students will show evidence of the acquisition and application of grammatical structures when using language.
3. Students will demonstrate skills necessary to analyze and compare and contrast cultures and practices of the target language with their own culture.
4. Students will demonstrate familiarity with technologies allowing them to access sources in the following areas: current news from the target country, bibliographical and other sources related to coursework, contemporary culture sources, and interactive communication sites.

15 units from the following courses:

| Non-native speakers | | Units |
|----------------------------|--------------------------------|--------------|
| SPAN 2 | High-Beginning Spanish..... | 5 |
| SPAN 3 | Intermediate Spanish | 5 |
| SPAN 4 | High-Intermediate Spanish..... | 5 |

| Or native speakers | | Units |
|---------------------------|---|--------------|
| SPAN 2 | High-Beginning Spanish..... | 5 |
| SPAN 3NS | Intermediate Spanish for Spanish Speakers | 5 |
| SPAN 4NS | High-Intermediate Spanish for Spanish Speakers..... | 5 |

| 8 units from the following: | | Units |
|------------------------------------|---|--------------|
| SPAN 5 | The Short Story: Mexico, Spain, and U.S..... | 4 |
| SPAN 6 | The Short Story: Latin America | 4 |
| SPAN 7 | Advanced Spanish: Composition and Grammar | 4 |
| SPAN 8 | Advanced Spanish Conversation | 4 |
| SPAN 9 | Spanish Business and Culture | 4 |

MARKETING

MARKETING, RETAIL MANAGMENT – Major #2055

revised program, Fall 2013

The program prepares current and future retail employees for the fast paced, ever changing challenges in a competitive retail environment. Specific occupational preparation is provided in the following program.

Associate in Science Degree and Certificate of Achievement

Student Learning Outcomes:

1. Develop and implement a marketing plan in response to market opportunities.
2. Demonstrate effective leadership skills while managing marketing functions within a business enterprise.
3. Describe and identify appropriate application of the wheel of retailing to various retailing situations.
4. Identify and describe the types of retailers and appropriate distribution methods for each type of retail situation.
5. Display soft skills required for workplace success including customer service, teambuilding, time management, conflict management, communication, and professional behavior.

| First Semester | | Units |
|-----------------------|--------------------------------------|--------------|
| BA/BT 5 | Workplace Communication | 3 |
| BT 115 | Refresher Math | 3 |
| CIT 15 | Computer Concepts | 3 |
| COMM 1 | Introduction to Public Speaking..... | 3 |
| | | Total 12 |

| Second Semester | | Units |
|------------------------|------------------------------|--------------|
| BA 10/10H | Introduction to Business, or | |

| | | |
|---------|---------------------------------------|----|
| | Honors Introduction to Business | 3 |
| BT 131 | Applied Accounting..... | 4 |
| MKTG 10 | Principles of Marketing..... | 3 |
| | Total | 10 |

| | | |
|-----------------------|--|--------------|
| Third Semester | | Units |
| BA 33 | Human Relations in the Workplace | 3 |
| MKTG 11 | Salesmanship..... | 3 |
| MKTG 12 | Advertising and Promotion | 3 |
| MKTG 14 | Retailing..... | 3 |
| | Total | 12 |

MATHEMATICS

MATHEMATICS – Major #6200

revised program, Spring 2013

The math degree program will help prepare students for math and science related subjects they will study in four-year college or university programs.

Associate in Science Degree

Preparatory courses: Students needing prerequisite courses will take from the following as required:

- MATH 4A Trigonometry
- MATH 4B Precalculus
- MATH 102 Plane Geometry
- MATH 103 Intermediate Algebra
- MATH 201 Elementary Algebra

TOTAL UNITS REQUIRED.....23-25

REQUIRED CORE COURSES

| | | |
|---------|---|---|
| | Units | |
| CSCI 40 | Programming Concepts & Methodology I..... | 4 |
| MATH 5A | Mathematical Analysis I..... | 5 |
| MATH 6 | Mathematical Analysis III..... | 4 |
| MATH 5B | Mathematical Analysis II..... | 4 |

ELECTIVES (Select two courses from the following:)

| | | |
|----------|---|---|
| | Units | |
| CSCI 41 | Programming Concepts & Methodology II..... | 4 |
| MATH 7 | Introduction to Differential Equations..... | 4 |
| MATH 11 | Elementary Statistics, or | |
| MATH 42 | Statistics for the Behavioral Sciences | 4 |
| MATH 21 | Finite Mathematics, or | |
| MATH 10B | Structure and Concepts in Mathematics II..... | 3 |
| MATH 26 | Elementary Linear Algebra..... | 3 |
| MATH 45 | Contemporary Mathematics | 3 |
| PHYS 4A | Physics for Scientists and Engineers | 4 |
| PHYS 4B | Physics for Scientists and Engineers | 4 |

MEDICAL ASSISTANT - CLINICIAN

MEDICAL ASSISTANT - CLINICIAN – Major #2120

revised program, Spring 2013

This curriculum is designed for the student who desires employment and advancement in the medical facility assisting the physician with the diagnosis and treatment of the patient.

ADMISSION POLICY

Enrollment is limited in the Medical Assistant–Clinician Program. There are no restrictions as to age, race, sex or marital status. In order to qualify for admission to the program, the applicant must have met all of the following conditions:

1. Graduated from high school with a minimum average of “C” (2.0) in high school work or complete the General Educational Development (GED) test with an average score of 45.
2. Completed Math 260D or test score that would qualify the student to place out of or above Math 260D.
3. Completed an Academic Summary Form for the Medical Assistant – Clinician Program and be prepared to furnish transcripts when requested.
4. Have no physical impairment that would preclude the performance of all Medical Assistant – Clinician duties. After selection as a qualified student to the Medical Assist – Clinician Program, the student must submit evidence of physical examination by a licensed physician.

BACKGROUND CHECK

Upon entry into the program, students may be required to obtain a background check.

Associate in Science Degree

Student Learning Outcomes:

1. Identify common medical conditions and diseases.
2. Perform clinical skills commonly associated in the physician's office.

***First year**

| First Semester | | Units |
|-----------------------|---------------------------------------|--------------|
| BT 23 | Job Search and Workplace Skills | 3 |
| HIT 10 | Medical Terminology | 3 |
| **MA 1 | Legal and Ethical Concepts..... | 2 |
| | | Total 8 |

| Second Semester | | Units |
|------------------------|-----------------------------------|--------------|
| BIOL 5 | Human Biology | 4 |
| CIT 15 | Computer Concepts | 3 |
| HLTH 2 | First Aid and Safety | 2 |
| HS 24 | Interviewing and Counseling | 3 |
| **MA 2 | Pharmacology | 3 |
| | | Total 15 |

***Second year**

| First Semester | | Units |
|-----------------------|----------------------------|--------------|
| **MA 4 | Office Lab Procedures..... | 4 |
| **MA 6A | Clinical Training..... | 3 |
| | | Total 7 |

| Second Semester | | Units |
|------------------------|---|--------------|
| FN 40 | Nutrition | 3 |
| **MA 5 | Diagnostic and Therapeutic Procedures | 4 |
| **MA 6B | Advanced Training | 3 |
| **MA 19 | Work Experience (Cooperative), Occupational | 1-4 |
| | | Total 11-14 |

** Requires additional general education units for two-year associate in science degree.*

***Upon completion, the student will be eligible to take the California Medical Assistant State Certification Exam.*

Note: BIOL 24 or BIOL 20 and 22 may be substituted for BIOL 5.

PARALEGAL

Paralegal – Major #2550

revised program, Spring 2013

This curriculum is designed for the student who desires employment and advancement in the field of paralegal work.

Associate in Science Degree and Certificate of Achievement

Student Learning Outcomes:

1. Describe the nature and historical development of the field of paralegalism, the ethical rules applicable to paralegals and the role of the paralegal in today's law office.
2. Demonstrate basic legal research, analysis and writing skills in preparing basic legal documents.
3. Define basic legal terminology and explain the basic substantive and procedural concepts applicable to American civil and criminal law.
4. Demonstrate basic proficiency in certain selected computer software programs used in the law office for: legal forms preparation, time and billing, calendaring, litigation support and case management.

Completion of 32 units of common-core courses.

REQUIRED CORE COURSES

| | | Units |
|-----------|------------------------------------|--------------|
| BA 20 | Law and the Legal System | 3 |
| BT 28 | Microsoft Word I | 2 |
| BT 29 | Microsoft Word II | 2 |
| PLEGAL 1 | Introduction to Paralegalism | 3 |
| PLEGAL 2A | Legal Research and Writing I | 3 |

| | | |
|-----------|---|----|
| PLEGAL 2B | Legal Research and Writing II | 3 |
| PLEGAL 6A | Litigation I..... | 3 |
| PLEGAL 6B | Litigation II..... | 3 |
| PLEGAL 7 | Law Offices Practices..... | 3 |
| PLEGAL 14 | Law Office Computing..... | 3 |
| PLEGAL 19 | Work Experience (Cooperative), Occupational | 4 |
| | Total | 32 |

Electives

Choose any 2 of the following courses for a total of 6 units

| | Units | |
|-----------------------|---|----|
| PLEGAL 3 | Family Law | 3 |
| PLEGAL 4 | Probate..... | 3 |
| PLEGAL 5 | Business Organizations..... | 3 |
| PLEGAL 8 | Torts/Contracts..... | 3 |
| PLEGAL 9 | Real Property | 3 |
| PLEGAL 10 | Criminal Law and Procedure | 3 |
| PLEGAL 11 | Evidence | 3 |
| PLEGAL 12 | Bankruptcy | 3 |
| PLEGAL 13 | Discovery and Trial Preparation | 3 |
| PLEGAL 15 | Debt Collection & Enforcement of Judgments..... | 3 |
| PLEGAL 16 | Environmental Law..... | 3 |
| PLEGAL 17 | Administrative Law/Workers' Compensation | 3 |
| PLEGAL 18 | Employment Law..... | 3 |
| PLEGAL 20 | Civil Rights and Liberties..... | 3 |
| PLEGAL 156/ BT 140 | Legal Document Processing | 3 |
| | Total | 38 |

Note: Associate degree requirements are listed on page 33.

PHILOSOPHY

PHILOSOPHY – Major # 5340

revised program, Fall 2013

A Philosophy major is a great way to develop critical and creative reasoning skills, enhance an ability to read complex materials with comprehension, and improve communication skills. These assets will be valuable as a transfer student to a four-year institution, whether you major in philosophy or some other field, and will enhance your preparation for a wide range of career opportunities.

Associate in Arts Degree

Student Learning Outcomes:

1. Demonstrate independent and critical thinking regarding important topics in philosophy.
2. Analyze and evaluate arguments, both philosophical and non-philosophical, in accordance with the standards taught in our philosophy courses.

Required Core Courses

| | Units | |
|-------------|---|---|
| PHIL 1A/1AH | Theories of Knowledge and Reality, or Honors Theories of Knowledge and Reality | 3 |
| PHIL 1C | Ethics | 3 |
| PHIL 6 | Symbolic Logic | 3 |

Select three of the following courses (min. two Phil):

| | Units | |
|-----------|---|---|
| HIST 1/1H | Western Civilization to 1648, or Honors Western Civilization to 1648 | 3 |
| HIST 2/2H | Western Civilization since 1648, or Honors Western Civilization since 1648 | 3 |
| PHIL 1B | Social and Political Philosophy..... | 3 |
| PHIL 1D | World Religions | 3 |
| PHIL 2 | Critical Reasoning and Analytic Writing..... | 3 |
| PHIL 5 | Philosophy of Religion..... | 3 |

PSYCHOLOGY

PSYCHOLOGY – Major # 7501

revised program, Fall 2013

The Psychology AA Program is designed to provide a strong academic foundation for students planning to major in Psychology at a four-year institution. Psychology is the scientific study of human behavior and mental processes. Two of the

5. Provide patient care and comfort.
6. Recognize emergency patient conditions and initiate lifesaving first aid and basic life support procedures.
7. Evaluate the performance of radiologic systems, know the safe limits of equipment operation, and report malfunctions to the proper authority.
8. Exercise independent judgment and discretion in the technical performance of medical imaging procedures.
9. Participate in radiologic quality assurance programs.
10. Assist in fluoroscopic procedures.

Classes are conducted on the Fresno City College campus. Students also attend classes at local hospitals affiliated with the program for clinical experience.

An associate in science degree will be granted upon successful completion of requirements for graduation, which includes formal hospital training. The student will be eligible to take the State licensing examination and the examination given by the American Registry of Radiologic Technologists upon successful completion of requirements for graduation.

Admission Policy

Enrollment is limited in the Radiologic Technology Program. There are no restrictions as to age, race, or marital status. In order to qualify for admission to the program, the applicant must have met all of the following conditions:

Application Requirements

Minimum prerequisite requirements for application to the Radiological Technology Program follow.

1. Have completed and submitted an Academic Summary Form for the Radiologic Technology Program.
2. Have graduated from high school or have an average score of 45 on the General Educational Development (GED) test.
3. Have completed Biology 24, Anatomy and Physiology (or equivalent), with a grade of “C” or better. Biology 24 may be replaced by Biology 20, Human Anatomy, and Biology 22, Human Physiology, with a grade of “C” or better in each course. Biology 24 may also be replaced by Biology 21A, Human Anatomy and Physiology I, and Biology 21B, Human Anatomy and Physiology II, with a grade of “C” or better in each course.
4. Have completed Applied Technology 11, Basic Electricity (or equivalent), with a grade of “C” or better.
5. Have attained a minimum cumulative grade point average (GPA) of “C+” (2.5) in completed college work.
6. Have no physical impairment that would preclude the performance of all radiologic technology duties.
7. Be in good physical and mental health.

Note: Prior to registration for the semester in which the applicant is scheduled to take courses in Radiologic Technology, the student must submit evidence of physical examination by a licensed physician.

Background Check

Upon entry into the program, students may be required to obtain a background check.

Change of Name, Address, and/or Telephone Number

Applicants and radiologic technology students must keep the Health Science office informed of any change in name, address, and/or telephone number. Failure of applicants to inform the Health Science office of this vital information may result in loss of entry into the program.

Academic Requirements

All program entry requirement courses listed above must be completed with a grade of “C” or better. Students in the radiologic technology program must earn a “C” grade or better (or a “Credit” grade when applicable) in all program courses. Less than a “C” or a “Credit” grade in any radiologic technology course requires that the course be repeated before continuing with the major. Courses must be repeated in their entirety. Courses may be repeated once only.

Safe professional practice is necessary for retention of students in the program. If a student demonstrates that he/she is unsuited to the profession or is not progressing satisfactorily based on the professional judgment of the faculty, he/she may be asked to withdraw from the program.

Associate in Science Degree

Student Learning Outcome:

1. Students will pass the ARRT National Registry Examination on the first attempt.

Radiologic Technology Course Sequence (all courses must be completed with a grade of “C” or better):

First Year

First Semester

Units

| | | |
|--------|---|---|
| RAD 1A | Fundamentals of Radiologic Technology | 6 |
| RAD 1B | Basic Radiographic Positioning Laboratory | 1 |

| | | |
|--------|--|----|
| RAD 1C | Clinical Orientation Laboratory | 3 |
| RAD 1D | Nursing Procedures in Radiologic Technology..... | 3 |
| | Total | 13 |

| | | |
|------------------------|---|--------------|
| Second Semester | | Units |
| RAD 2A | Radiation Biology | 6 |
| RAD 2B | Advanced Radiographic Positioning Laboratory..... | 1 |
| RAD 2C | Clinical Observation Laboratory | 3 |
| RAD 2D | Quality Assurance in Radiologic Technology | 1 |
| | Total | 11 |

| | | |
|------------------------|---|--------------|
| Summer Semester | | Units |
| RAD 3 | Basic Clinical Radiologic Technology..... | 7 |

| | | |
|-----------------------|--|--------------|
| Second Year | | |
| First Semester | | Units |
| RAD 4A | Pathology in Radiologic Technology | 2 |
| RAD 4B | Advanced Clinical Radiologic Technology..... | 12 |
| RAD 4C | Advanced Radiographic Positioning Laboratory – Cranium..... | 1 |
| | Total | 15 |

| | | |
|------------------------|---|--------------|
| Second Semester | | Units |
| RAD 5A | Special Procedures in Radiologic Technology | 2 |
| RAD 5B | Specialized Clinical Radiologic Technology | 12 |
| RAD 5C | Fluoroscopy..... | 2 |
| | Total | 16 |

RESPIRATORY CARE PRACTITIONER

RESPIRATORY CARE PRACTITIONER – Major # 4610

revised program, Spring 2013

The respiratory care practitioner (RCP) is a health care specialist involved in managing, diagnostically evaluating, and providing care to patients with deficiencies and abnormalities affecting their cardiopulmonary system. Respiratory care practitioners comprise a critical sector of the allied health care workforce. A recent survey for the American Association for Respiratory Care (AARC) estimated that there are 111,700 RCPs employed in the United States. Currently, there are 13,660 active licensed RCPs in California.

Respiratory care practitioners work under the direction of physicians. The scope of their practice ranges from delivering temporary relief to persons with asthma, pulmonary edema, chronic obstructive pulmonary disease (COPD) and emphysema, to providing emergency treatment for asphyxiation, heart failure, stroke, drowning, and shock. The diagnostic and therapeutic responsibilities include the administration of medical gases, aerosols, environmental control systems, life sustaining mechanical ventilation, medication, chest physical therapy, pulmonary functions testing, and specialized cardiopulmonary procedures. The respiratory care practitioner works closely with the physician in assessing the patient and planning the proper respiratory care protocol. Most RCPs (75%) work in a hospital setting and are key staff in critical care units and emergency rooms. Next to nurses, RCPs are the most frequently seen health care provider at the patient bedside. In addition, RCPs are present in the emergency room for resuscitation and are always a member of response teams that rush to the aid of patients who experience sudden cardiac arrest.

The respiratory care program is designed to prepare the student for employment in the health care delivery system, and to participate as a member of the health care team. Clinical work experiences in respiratory care are provided in selected local hospitals where students practice their skills under the supervision of the Fresno City College faculty.

Essential function and general job description utilizes the application of scientific principles for the identification, prevention, remediation, research, and rehabilitation of acute or chronic cardiopulmonary dysfunction. Reviews existing data, collects additional data, and recommends obtaining data to evaluate the respiratory status of patients, develops the respiratory care plan, and determines if the prescribed therapy is appropriate. Initiates, conducts, and modifies prescribed therapeutic and diagnostic procedures such as: administering medical gases, humidification and aerosols, aerosol medications, postural drainage, bronchopulmonary hygiene, cardiopulmonary resuscitation; providing support services to mechanically ventilated patients; maintaining artificial and natural airways; performing pulmonary function testing, hemodynamic monitoring and other physiologic monitoring; collecting specimens of blood and other materials. Documents necessary information in the patient's medical record and on other forms, and communicates that information to members of the health care team. Obtains, assembles, calibrates, and checks necessary equipment. Uses problem solving to identify and correct malfunctions of respiratory care equipment. Demonstrates appropriate interpersonal skills to work productively with patients, families, staff, and co-workers. Accepts directives, maintains confidentiality, does not discriminate, and upholds the ethical standards of the profession.

State License and National Registration and Certification

Successful completion of the respiratory care program qualifies the graduate for an associate in science degree and satisfies eligibility requirements to: (1) take the licensing examination for the CRT by the National Board for Respiratory Care, (2) take the national registry examinations for the registered respiratory therapist credential issued by the National Board for Respiratory (3) be eligible to apply for California State licensing through the Respiratory Care Board in Sacramento, California.

Program Statement

The Respiratory Care program is accredited by the Commission on Accreditation for Respiratory Care (CoARC), 1248 Harwood Road, Bedford, TX 76021, 1-817-283-2835, www.coarc.com <http://www.coarc.com/>.

Application Requirements

Enrollment into the respiratory care program is limited; however, there are no restrictions as to age, sex, race, or marital status. To qualify for admission to the program, the applicant must meet all of the following conditions:

1. Complete and submit an Academic Summary Form for the Respiratory Care Program.
2. Have graduated from high school with a minimum average grade of 2.0 ("C") or have an average score of 45 on the General Educational Development (GED) examination.
3. Have completed Fresno City College Math 103 or higher, Biology 1 or Biology 5 or Biology 11A or higher, Chemistry 3A (Intro to Chemistry) or higher (or their college level equivalents), Biology 24 (Anatomy and Physiology) or Biology 20 (Anatomy) and Biology 22 (Physiology) or Biology 21A and Biology 21B, and Biology 31 (Microbiology)
4. Have attained a minimum GPA 2.5 in all completed college work.
5. Submit high school and college transcripts.

Note: It is the applicant's responsibility to request his/her transcripts from the necessary schools and to ensure that the transcripts are on file by the deadline. The college GPA and courses will have precedence over an applicant's high school GPA and courses.

PRIOR TO REGISTRATION for the semester in which the applicant is actually scheduled to take courses in respiratory care, the following conditions must be met to finalize program qualifications:

1. Submit evidence of physical and mental health (a physical examination form to be completed by a physician.)
2. Complete immunization portfolio and diagnostic tests.
3. Attend an allied health orientation program.
4. Complete a State and Federal background check.

Change of Name, Address, and/or Telephone Number

Applicants and respiratory care students must keep the Respiratory Care Program office informed of any change in name, address, and /or telephone number. Failure of applicant to inform the Respiratory Care Program office of this vital information may result in loss of entry into the program.

Academic Requirements

In order to be licensed by the State of California, the student must pass the CRT offered by the National Board for Respiratory Care. Additionally, the student must apply for State licensing through the Respiratory Care Board in Sacramento, California. In the case of earning less than a "C" grade in a respiratory care course, the student may not progress in the major until the course is completed successfully. Courses may be repeated once only.

Associate in Science Degree

Student Learning Outcomes:

1. Prepare students to successfully complete the CRT (entry-level exam) through the NBRC (National Board for Respiratory Care) within five months of graduation.
2. Students will demonstrate effective patient assessment skills as respiratory care practitioners.

Respiratory Care course sequence (all must be completed with a "C" grade or better):

| First Year | | |
|------------------------|---|--------------|
| First Semester | | Units |
| RCARE 16 | Patient Assessment..... | 3 |
| RCARE 17 | Fundamentals of Patient Management..... | 4 |
| RCARE 18 | Physiology of Respiratory System..... | 2 |
| RCARE 20 | Introduction to Respiratory Care | 5 |
| | | Total 14 |
| Second Semester | | Units |
| RCARE 21 | Application and Procedures in Respiratory Care..... | 11 |

| | | |
|------------------------|---|--------------|
| Second Year | | |
| First Semester | | Units |
| RCARE 22 | Clinical Applications in Respiratory Care I..... | 9 |
| Second Semester | | |
| RCARE 23 | Clinical Applications in Respiratory Care II..... | 9 |
| RCARE 25 | Respiratory Disease | 2 |
| | | Total 14 |

RESPIRATORY CARE PRACTITIONER PROGRAM REQUIREMENTS
 (A “C” or better grade is required in each course.)

In addition to the program application requirements and the Respiratory Care course sequence requirements, the following courses are required to apply for the associate degree:

- Biology 24, or Biology 20 and Biology 22
- Biology 31
- Communication 1 or Communication 2
- Physical Science 11 or Applied Technology 120
- Psychology 2
- Sociology 1A

General education courses to complete the Associate in Science degree requirements.

Note: All applications requirements, program requirements, and selection criteria are subject to change. Students will enter the selection pool based on the current catalog or catalog supplement. Contact a Fresno City College Health Science Counselor every semester for current information.

SIGN LANGUAGE INTERPRETING PREPARATION PROGRAM

SIGN LANGUAGE INTERPRETING PREPARATION PROGRAM – Major #5101 *revised program, Fall 2013*

To prepare students for entry-level interpreting positions in a variety of settings such as schools, social service agencies and limited medical situations.

Certificate of Achievement

Student Learning Outcomes:

1. Discuss and apply knowledge of linguistic, cross-cultural and interpretation theories.
2. Demonstrate communicative competency in English and in ASL through effective communication in settings with speakers of varying age, gender and ethnicity.
3. Analyze, identify, and apply personal, professional and ethical decisions in a manner consistent with theoretical models and standard professional practice.
4. Formulate effective one-on-one and small group interpretation/transliteration in limited settings.

| | | |
|------------------------------|--|--------------|
| Required Core Courses | | Units |
| ASL 4 | High-Intermediate American Sign Language..... | 4 |
| ASL 5 | Deaf Culture | 3 |
| ASL 6 | Structure of American Sign Language..... | 3 |
| ASL 7 | Deaf History | 3 |
| ASL 8 | American Sign Language Literature/Folklore | 3 |
| ASL 20 | Introduction to Interpreting | 3 |
| ASL 21 | American Sign Language to English Translation..... | 3 |
| ASL 22 | English to American Sign Language Translation..... | 3 |
| | | Total 10 |

SPANISH

SPANISH – Major #5510 *revised program, Fall 2013*

The Spanish Program is designed to prepare students for entry into a variety of career options requiring intermediate or better levels of fluency. The Spanish major also acquaints students with the cultures of Spanish speaking countries.

Associate in Arts Degree

Student Learning Outcomes:

1. Engage in conversation using the Spanish in daily life situations.

2. Read with a certain depth of understanding magazine or newspaper articles, short stories, and literary excerpts written in Spanish.
3. Write at the advanced level in a variety of modalities including personal and professional letters, short narratives, and descriptive essays.
4. Recognize and understand cultural similarities and differences between U. S. culture and that of the Spanish speaking world. Distinguish simple behavioral patterns that represent these cultures and behave in culturally appropriate ways in specific situations.

| Required Core Courses | | Units |
|------------------------------|---|--------------|
| SPAN 3 | Intermediate Spanish, or | |
| SPAN 3NS | Intermediate Spanish for Spanish Speakers | 5 |
| SPAN 4 | High-Intermediate Spanish, or | |
| SPAN 4NS | High-Intermediate Spanish for Spanish Speakers..... | 5 |

Select a minimum of twelve (12) additional units from the following list:

| | Units | |
|--------|---|---|
| SPAN 5 | The Short Story: Mexico, Spain, and the U.S. | 4 |
| SPAN 6 | The Short Story: Latin America | 4 |
| SPAN 7 | Advanced Spanish: Composition and Grammar | 4 |
| SPAN 8 | Advanced Spanish Conversation | 4 |
| SPAN 9 | Spanish Business and Culture | 4 |

- Notes:* 1. An Associate in Arts degree in Spanish will be awarded to any candidate who successfully completes a total of 60 units which include associate degree requirements and a minimum of 22 units of course work as listed above. Associate degree requirements are listed on page 35. General Education requirements for transfer certification are listed on page 43.
2. Two Spanish courses can be used to fulfill the area "C" General Education requirement (in Humanities) for graduation or transfer.
3. Two of the following courses may be challenged according to Foreign Language Department policy: Spanish 1, 2.

SURGICAL TECHNOLOGY

SURGICAL TECHNOLOGY – Major #4572

revised program, Spring 2013

The Surgical Technology Program is designed for selected men and women who wish to prepare for a career as members of a multidisciplinary team caring for patients in the operating room and in the surgical practice setting. The program is a combination of academic study and clinical practice in metropolitan hospitals.

Associate in Science Degree and Certificate of Achievement

Background Check

Upon entry into the program, students may be required to obtain a background check.

First Year

| First Semester | | Units |
|-----------------------|---|--------------|
| HIT 10 | Medical Terminology | 3 |
| MA 2 | Pharmacology | 3 |
| SURGT 101 | Introduction to Surgical Technology | 3 |
| | | Total 9 |

| Second Semester | | Units |
|------------------------|----------------------------------|--------------|
| #BIOL 24 | Human Anatomy and Physiology, or | |
| *+BIOL 20 | Human Anatomy, and | |
| *+BIOL 22 | Human Physiology | 5-9 |
| SURGT 102 | Surgical Techniques..... | 3 |
| SURGT 103 | Surgical Procedures | 3 |
| | | Total 11-15 |

Second Year

| First Semester | | Units |
|-----------------------|-------------------------|--------------|
| #BIOL 31 | Microbiology | 5 |
| SURGT 104 | Clinical Practicum..... | 6 |
| | | Total 11 |

| Second Semester | | Units |
|------------------------|-----------------------------------|--------------|
| COMM 2 | Interpersonal Communication | 3 |
| SURGT 105 | Advanced Clinical Practicum..... | 6 |
| | | Total 9 |

#Courses have prerequisites. See catalog or a counselor.

*+ BIOL 20 and 22 may be substituted for BIOL 24.

Note: All courses listed are required for national certification. All program courses must be completed with a grade of “C” or better. An associate in science will be awarded to any candidate who successfully completes the associate degree requirements and the course work listed above. Associate degree requirements are listed on page 33. General Education requirements for transfer certification are listed on page 32.

National Certification

The Surgical Technology Program is accredited by Commission on Accreditation of Allied Health Education Programs (CAHEEP). Successful completion of the Surgical Technology Program qualifies the student eligibility to take the Associate of Surgical Technologists (AST) National Certification Examination in order to become a Certified Surgical Technologist (CST).

TEACHER AIDE: GENERAL

TEACHER AIDE GENERAL – Major #5910

revised program, Fall 2013

The Teacher Aide Certificate major prepares students for an education career as aides to classroom teachers in elementary, middle and high schools. The major may also be used for employment as an aide in daycare centers, migrant training programs, community centers, and adult education programs. The Teacher Aide Certificate major satisfies the federal No Child Left Behind legislation for school districts to employ teacher aides that have completed an appropriate college requisite course of study. FCC’s Education 30, Survey of American Education and Educational Aide 19, Work Experience are particularly valuable courses for students seeking an understanding of education in the United States. These courses are also useful for exploring the field of education before committing to a teacher aide or teaching program of study.

Associate in Science Degree

Student Learning Outcomes:

1. The major prepares students to meet federal "No Child Left Behind" requirements for employment as teacher aides in public K-12 classrooms.
2. Students will learn student management (discipline) techniques.
3. Students will learn how to successfully apply for a job as a teacher aide in a K-12 school system.
4. Students will clearly understand the role of the K-12 credentialed teacher and the K-12 teacher aide.

Program Requirements

| Required Core Courses | | Units |
|------------------------------|---|--------------|
| EDA 19 | Work Experience (Cooperative), Occupational | 1 |
| EDUC 30 | Survey of American Education | 3 |

| Course Options: Select a Minimum of 9 Units | | Units |
|--|---|--------------|
| ART 2 | Art Appreciation | 3 |
| ART 5/5H | Art History 1, or Honors Art History 1 | 3 |
| ART 6/6H | Art History 2, or Honors Art History 2 | 3 |
| ASTRO 10 | Basic Astronomy | 3 |
| BIOL 3 | Introduction to Life Science | 4 |
| BIOL 11A/11AH | Biology for Science Majors I, or Honors Biology for Science Majors I | 5 |
| CHDEV 39 | Child Growth and Development | 3 |
| CLS 21 | Chicano Literature | 3 |
| COMM 1 | Introduction to Public Speaking | 3 |
| COMM 2 | Interpersonal Communication | 3 |
| COMM 8 | Group Communication | 3 |
| COMM 25 | Argumentation | 3 |
| ECON 1A/1AH | Introduction to Macroeconomics, or Honors Introduction to Macroeconomics | 3 |
| ECON 1B/1BH | Introduction to Microeconomics, or Honors Introduction to Microeconomics | 3 |
| ENGL 1B/1BH | Introduction to the Study of Literature, or Honors Introduction to the Study of Literature | 3 |
| ENGL 3/3H | Critical Reading & Writing, or Honors Critical Reading & Writing | 3 |

| | | |
|--------------|---|-----|
| ENGL 15B | Creative Writing: Fiction | 3 |
| ENGL 46A | English Literature to 1800 | 3 |
| GEOG 1 | Physical Geography | 3 |
| GEOG 4A | World Geography | 3 |
| GEOG 7 | Physical Geography: Earth's Surface | 4 |
| GEOG 8 | Physical Geography: Weather and Climate..... | 4 |
| GEOL 1/1H | Physical Geology, or Honors Physical Geology | 4 |
| HIST 1/1H | Western Civilization to 1648, or Honors Western Civilization to 1648 | 3 |
| HIST 2/2H | Western Civilization Since 1648, or Honors Western Civilization Since 1648 | 3 |
| HUMAN 10/10H | Classical Humanities, or Honors Classical Humanities | 3 |
| HUMAN 11/11H | Modern Humanities, or Honors Modern Humanities..... | 3 |
| LING 10 | Introduction to Language..... | 3 |
| MATH 4A | Trigonometry, or higher math | 3-5 |
| MATH 11 | Elementary Statistics..... | 4 |
| MATH 45 | Contemporary Mathematics | 3 |
| MUS 3 | Music Fundamentals | 3 |
| PHYSC 7 | Environmental Science..... | 3 |
| TA 30 | Theatre Appreciation | 3 |
| TA 41 | Beginning Acting | 3 |

Note: A minimum of 1 unit is required for EDA 19.

TEACHER AIDE GENERAL – Major #5910

revised program, Spring 2013

The Teacher Aide Certificate major prepares students for an education career as aides to classroom teachers in elementary, middle and high schools. The major may also be used for employment as an aide in daycare centers, migrant training programs, community centers, and adult education programs. The Teacher Aide Certificate major satisfies the federal No Child Left Behind legislation for school districts to employ teacher aides that have completed an appropriate college requisite course of study. FCC's Education 30, Survey of American Education and Educational Aide 19, Work Experience are particularly valuable courses for students seeking an understanding of education in the United States. These courses are also useful for exploring the field of education before committing to a teacher aide or teaching program of study.

Certificate of Achievement

Student Learning Outcomes:

1. The major prepares students to meet federal "No Child Left Behind" requirements for employment as teacher aides in public K-12 classrooms.
2. Students will learn student management (discipline) techniques.
3. Students will learn how to successfully apply for a job as a teacher aide in a K-12 school system.
4. Students will clearly understand the role of the K-12 credentialed teacher and the K-12 teacher aide.

Program Requirements

Required Core Courses

| | Units | |
|-------------|--|-------|
| EDA 19 | Work Experience (Cooperative), Occupational | 1 |
| EDUC 30 | Survey of American Education | 3 |
| ENGL 125 | Writing Skills for College, or | |
| ENGL 1A/1AH | Reading and Composition, or Honors Reading and Composition..... | 4 |
| MATH 102 | Plane Geometry, or | |
| MATH 103 | Intermediate Algebra, or | |
| MATH 201 | Elementary Algebra, or | |
| higher math | ..... | 3 – 5 |

Course Options: Select a Minimum of 9 Units

| | Units | |
|----------|---|---|
| ART 2 | Art Appreciation..... | 3 |
| ART 5/5H | Art History 1, or Honors Art History 1 | 3 |
| ART 6/6H | Art History 2, or Honors Art History 2 | 3 |
| ASTRO 10 | Basic Astronomy | 3 |
| BIOL 3 | Introduction to Life Science | 4 |

| | | |
|---------------|---|-----|
| BIOL 11A/11AH | Biology for Science Majors I, or Honors Biology for Science Majors I | 5 |
| CHDEV 39 | Child Growth and Development | 3 |
| CLS 21 | Chicano Literature | 3 |
| COMM 1 | Introduction to Public Speaking | 3 |
| COMM 2 | Interpersonal Communication | 3 |
| COMM 8 | Group Communication | 3 |
| COMM 25 | Argumentation | 3 |
| ECON 1A/1AH | Introduction to Macroeconomics, or Honors Introduction to Macroeconomics | 3 |
| ECON 1B/1BH | Introduction to Microeconomics, or Honors Introduction to Microeconomics | 3 |
| ENGL 1B/1BH | Introduction to the Study of Literature, or Honors Introduction to the Study of Literature | 3 |
| ENGL 3/3H | Critical Reading & Writing, or Honors Critical Reading & Writing | 3 |
| ENGL 15B | Creative Writing: Fiction | 3 |
| ENGL 46A | English Literature to 1800 | 3 |
| GEOG 1 | Physical Geography | 3 |
| GEOG 4A | World Geography | 3 |
| GEOG 7 | Physical Geography: Earth's Surface | 4 |
| GEOG 8 | Physical Geography: Weather and Climate | 4 |
| GEOL 1 | Physical Geology | 4 |
| HIST 1/1H | Western Civilization to 1648, or Honors Western Civilization to 1648 | 3 |
| HIST 2/2H | Western Civilization Since 1648, or Honors Western Civilization Since 1648 | 3 |
| HUMAN 10/10H | Classical Humanities, or Honors Classical Humanities | 3 |
| HUMAN 11/11H | Modern Humanities, or Honors Modern Humanities | 3 |
| LING 10 | Introduction to Language | 3 |
| MATH 4A | Trigonometry, or higher math | 3-5 |
| MATH 11 | Elementary Statistics | 4 |
| MATH 45 | Contemporary Mathematics | 3 |
| MUS 3 | Music Fundamentals | 3 |
| PHYSC 7 | Environmental Science | 3 |
| TA 30 | Theatre Appreciation | 3 |
| TA 41 | Beginning Acting | 3 |

Note: A minimum of 1 unit is required for EDA 19.

TEACHER AIDE GENERAL – Major #5910

revised program, Fall 2013

The Teacher Aide Certificate major prepares students for an education career as aides to classroom teachers in elementary, middle and high schools. The major may also be used for employment as an aide in daycare centers, migrant training programs, community centers, and adult education programs. The Teacher Aide Certificate major satisfies the federal No Child Left Behind legislation for school districts to employ teacher aides that have completed an appropriate college requisite course of study. FCC's Education 30, Survey of American Education and Educational Aide 19, Work Experience are particularly valuable courses for students seeking an understanding of education in the United States. These courses are also useful for exploring the field of education before committing to a teacher aide or teaching program of study.

Certificate of Achievement

Student Learning Outcomes:

1. The major prepares students to meet federal "No Child Left Behind" requirements for employment as teacher aides in public K-12 classrooms.
2. Students will learn student management (discipline) techniques.
3. Students will learn how to successfully apply for a job as a teacher aide in a K-12 school system.
4. Students will clearly understand the role of the K-12 credentialed teacher and the K-12 teacher aide.

Program Requirements

Required Core Courses

Units

| | | |
|----------|---|---|
| EDA 19 | Work Experience (Cooperative), Occupational | 1 |
| EDUC 30 | Survey of American Education | 3 |
| ENGL 125 | Writing Skills for College, or | |

| | | |
|-------------|--|-------|
| ENGL 1A/1AH | Reading and Composition, or Honors Reading and Composition..... | 4 |
| MATH 102 | Plane Geometry, or | |
| MATH 103 | Intermediate Algebra, or | |
| MATH 201 | Elementary Algebra, or | |
| higher math | ..... | 3 – 5 |

Course Options: Select a Minimum of 9 Units **Units**

| | | |
|---------------|--|-----|
| ART 2 | Art Appreciation..... | 3 |
| ART 5/5H | Art History 1, or Honors Art History 1 | 3 |
| ART 6/6H | Art History 2, or Honors Art History 2 | 3 |
| ASTRO 10 | Basic Astronomy | 3 |
| BIOL 3 | Introduction to Life Science | 4 |
| BIOL 11A/11AH | Biology for Science Majors I, or Honors Biology for Science Majors I | 5 |
| CHDEV 39 | Child Growth and Development | 3 |
| CLS 21 | Chicano Literature | 3 |
| COMM 1 | Introduction to Public Speaking..... | 3 |
| COMM 2 | Interpersonal Communication | 3 |
| COMM 8 | Group Communication | 3 |
| COMM 25 | Argumentation..... | 3 |
| ECON 40/40H | Introduction to Microeconomics, or Honors Introduction to Microeconomics | 3 |
| ECON 50/50H | Introduction to Macroeconomics, or Honors Introduction to Macroeconomics | 3 |
| ENGL 1B/1BH | Introduction to the Study of Literature, or Honors Introduction to the Study of Literature..... | 3 |
| ENGL 3/3H | Critical Reading & Writing, or Honors Critical Reading & Writing..... | 3 |
| ENGL 15B | Creative Writing: Fiction | 3 |
| ENGL 46A | English Literature to 1800 | 3 |
| GEOG 1 | Physical Geography | 3 |
| GEOG 4A | World Geography | 3 |
| GEOG 7 | Physical Geography: Earth's Surface..... | 4 |
| GEOG 8 | Physical Geography: Weather and Climate..... | 4 |
| GEOL 1 | Physical Geology..... | 4 |
| HIST 1/1H | Western Civilization to 1648, or Honors Western Civilization to 1648 | 3 |
| HIST 2/2H | Western Civilization Since 1648, or Honors Western Civilization Since 1648 | 3 |
| HUMAN 10/10H | Classical Humanities, or Honors Classical Humanities | 3 |
| HUMAN 11/11H | Modern Humanities, or Honors Modern Humanities..... | 3 |
| LING 10 | Introduction to Language..... | 3 |
| MATH 4A | Trigonometry, or | |
| higher math | ..... | 3-5 |
| MATH 11 | Elementary Statistics..... | 4 |
| MATH 45 | Contemporary Mathematics | 3 |
| MUS 3 | Music Fundamentals | 3 |
| PHYSC 7 | Environmental Science..... | 3 |
| TA 30 | Theatre Appreciation..... | 3 |
| TA 41 | Beginning Acting | 3 |

Note: A minimum of 1 unit is required for EDA 19.

THEATRE ARTS

THEATRE ART FOR TRANSFER – Major #5445T

correction

WELDING TECHNOLOGY

METAL FABRICATION OPTION – Major #8371

revised program, Spring 2013

Welding technology provides an opportunity for students to prepare for employment in welding and metal occupations. Specific preparation is provided in welding and metal fabrication or pipe and steel certification procedures. Instruction in the

design and fabrication of metal projects by welding. Skills will be taught in design, manufacturing processes, production techniques, and material cost estimation.

Associate in Science Degree

Student Learning Outcomes:

1. Given an idea or description students will be able to design and plan the construction of one or more advanced metal fabricated projects.
2. From the design and specifications, students will be able to determine estimated steel weights, cost calculations, and fabrication time requirements.
3. Students will be able to demonstrate the proper safety precautions, setup and use of tools and equipment common to metal fabrication.
4. In the construction of their project, students will apply various types of welds with quality workmanship to assemble the steel components of their advanced projects.
5. During the construction of their project, students will demonstrate the efficient use of time and materials to produce advanced projects.

First Year

| First Semester | | Units |
|-----------------------|--|--------------|
| AT 10 | Technical Computer Applications..... | 3 |
| AT 130 | Industrial Mathematics, or | |
| MATH 201 | Elementary Algebra..... | 3-5 |
| WELD 2A | Introduction to Welding Technology | 6 |

| Second Semester | | Units |
|------------------------|--|--------------|
| AT 21 | Occupational Safety and Health..... | 2 |
| AT 40 | Preparing for Employment Opportunities | 3 |
| WELD 2B | Advanced Multi-Process Welding..... | 5 |
| CADD 14 | 2D CAD I..... | 3 |

Second Year

| First Semester | | Units |
|-----------------------|--------------------------------------|--------------|
| DRAFT 12 | Drafting Practices..... | 3 |
| WELD 3A | Welding Design and Fabrication | 5 |

| Second Semester | | Units |
|------------------------|--|--------------|
| WELD 3B | Advanced Welding Design and Fabrication..... | 5 |
| Elective | ..... | 2 – 3 |
| Total 39-42 | | |

Recommended electives: CAM 10; CADD 24, 34; ENGR 10, 11; WELD 56.

Note: Associate degree requirements are listed on page 33.

Recommended electives: CAM 10; CADD 14, 24; ENGR 10, 11; WELD 56.

METAL FABRICATION OPTION – Major #8371

revised program, Spring 2013

Welding technology provides an opportunity for students to prepare for employment in welding and metal occupations. Specific preparation is provided in welding and metal fabrication or pipe and steel certification procedures. Instruction in the design and fabrication of metal projects by welding. Skills will be taught in design, manufacturing processes, production techniques, and material cost estimation.

Certificate of Achievement

Student Learning Outcomes:

1. Given an idea or description students will be able to design and plan the construction of one or more advanced metal fabricated projects.
2. From the design and specifications, students will be able to determine estimated steel weights, cost calculations, and fabrication time requirements.
3. Students will be able to demonstrate the proper safety precautions, setup and use of tools and equipment common to metal fabrication.
4. In the construction of their project, students will apply various types of welds with quality workmanship to assemble the steel components of their advanced projects.
5. During the construction of their project, students will demonstrate the efficient use of time and materials to produce advanced projects.

REQUIRED CORE COURSES

First Year

| First Semester | | Units |
|-----------------------|--|--------------|
| AT 10 | Technical Computer Applications | 3 |
| AT 130 | Industrial Mathematics, or | |
| MATH 201 | Elementary Algebra..... | 3-5 |
| WELD 2A | Introduction to Welding Technology | 6 |

| Second Semester | | Units |
|------------------------|--|--------------|
| AT 21 | Occupational Safety and Health..... | 2 |
| AT 40 | Preparing for Employment Opportunities | 3 |
| WELD 2B | Advanced Multi-Process Welding..... | 5 |
| CADD 14 | 2D CAD I..... | 3 |

Second Year

| First Semester | | Units |
|-----------------------|--------------------------------------|--------------|
| DRAFT 12 | Drafting Practices..... | 3 |
| WELD 3A | Welding Design and Fabrication | 5 |

| Second Semester | | Units |
|------------------------|--|--------------|
| WELD 3B | Advanced Welding Design and Fabrication..... | 5 |
| Elective | ..... | 2 – 3 |
| Total 39-42 | | |

Recommended electives: CAM 10; CADD 24, 34; ENGR 10, 11; WELD 56.

PIPE AND STRUCTURAL STEEL CERTIFICATION – Major #8372

revised program, Spring 2013

Welding technology provides an opportunity for students to prepare for employment in welding and metal occupations. Specific preparation is provided in welding and metal fabrication or pipe and steel certification procedures.

Pre-employment training for structural steel and pipe welding technicians. An emphasis is placed on developing certification code-level proficiency in the use of shielded metal arc and flux cored arc welding procedures used in the construction of components on bridges, building, and pressure vessel systems.

Associate in Science Degree

Student Learning Outcomes:

1. Students will demonstrate correct usage of all weld symbols on the American Welding Society welding symbols chart.
2. Students will weld in all welding positions.
3. Students will correctly use ASME, AWS and API codes.
4. Students will perform and weld different pipe configurations according to specification.

First Year

| First Semester | | Units |
|-----------------------|--|--------------|
| AT 10 | Technical Computer Applications | 3 |
| AT 130 | Industrial Mathematics, or | |
| MATH 201 | Elementary Algebra..... | 3-5 |
| DRAFT 12 | Drafting Practices | 3 |
| WELD 2A | Introduction to Welding Technology | 6 |
| Total 15-17 | | |

| Second Semester | | Units |
|------------------------|--|--------------|
| AT 21 | Occupational Safety and Health..... | 2 |
| AT 40 | Preparing for Employment Opportunities | 3 |
| WELD 2B | Advanced Multi-Process Welding..... | 5 |
| Total 10 | | |

Second Year

| First Semester | | Units |
|------------------------|--|--------------|
| WELD 4A | Heavy Plate, Structural Steel and Welding Certification..... | 5 |
| Recommended electives. | ..... | 3 |
| Total 8 | | |

Second Semester Units

| | | |
|------------------------|--|---------|
| WELD 4B | Pipe, Tube Welding and Certification | 5 |
| Recommended electives. | ..... | 3 |
| | | Total 8 |

Recommended Electives: CAM 10; CADD 14, 24; ENGR 10, 11; WELD 56.

Note: Associate degree requirements are listed on page 33.

PIPE AND STRUCTURAL STEEL CERTIFICATION – Major #8372

revised program, Spring 2013

Welding technology provides an opportunity for students to prepare for employment in welding and metal occupations. Pre-employment training for structural steel and pipe welding technicians. An emphasis is placed on developing certification code-level proficiency in the use of shielded metal arc and flux cored arc welding procedures used in the construction of components on bridges, building, and pressure vessel systems.

Certificate of Achievement

Student Learning Outcomes:

1. Students will demonstrate correct usage of all weld symbols on the American Welding Society Welding symbols chart.
2. Students will weld in all welding positions.
3. Students will correctly use ASME, AWS and API codes.
4. Student will perform and weld different pipe configurations according to specification.

First Year

| First Semester | | Units |
|-----------------------|--|--------------|
| AT 10 | Technical Computer Applications | 3 |
| AT 130 | Industrial Mathematics, or | |
| MATH 201 | Elementary Algebra | 3-5 |
| DRAFT 12 | Drafting Practices | 3 |
| WELD 2A | Introduction to Welding Technology | 6 |
| | | Total 15-17 |

| Second Semester | | Units |
|------------------------|--|--------------|
| AT 21 | Occupational Safety and Health | 2 |
| AT 40 | Preparing for Employment Opportunities | 3 |
| WELD 2B | Advanced Multi-Process Welding | 5 |
| | | Total 10 |

Second Year

| First Semester | | Units |
|-----------------------|---|--------------|
| WELD 4A | Heavy Plate, Structural Steel & Welding Certification | 5 |
| Elective | Select from recommended electives | 3 |
| | | Total 8 |

| Second Semester | | Units |
|------------------------|--|--------------|
| WELD 4B | Pipe, Tube Welding and Certification | 5 |
| Elective | Select from recommended electives | 3 |
| | | Total 8 |

Recommended electives: CAM 10; CADD 14, 24; ENGR 10, 11; WELD 56.

WELDING DESIGN & FABRICATION – Major #8374

revised program, Spring 2013

This certificate of achievement provides pre-employment training for an entry level job in the welding fabrication industry. Instruction in the design and fabrication of metal projects will be completed through the welding process. Skills will be taught in design, materials cost estimation and manufacturing processes.

Certificate of Achievement

Student Learning Outcomes:

1. Given an idea or description students will be able to design and plan the construction of one or more advanced metal fabricated projects.
2. From the design and specifications, students will be able to determine estimated steel weights, cost calculations, and fabrication time requirements.
3. Students will be able to demonstrate the proper safety precautions, setup and use of tools and equipment common to metal fabrication.
4. In the construction of their project, students will apply various types of welds with quality workmanship to assemble the steel components of advanced projects.

5. During the construction of their project, students will demonstrate the efficient use of time and materials to produce advanced projects.

FIRST YEAR

| First Semester | | Units |
|-----------------------|---------------------------------------|--------------|
| AT 10 | Technical Computer Applications | 3 |
| CADD 14 | 2D CAD I | 3 |

| Second Semester | | Units |
|------------------------|--------------------------------------|--------------|
| WELD 3A | Welding Design and Fabrication | 5 |

SECOND YEAR

| First Semester | | Units |
|-----------------------|--|--------------|
| WELD 3B | Advanced Welding Design and Fabrication..... | 5 |

WIND TURBINE TECHNICIAN

WIND TURBINE TECHNICIAN – Major #8601

revised program, Fall 2013

This curriculum is designed to prepare the student for entry into the field of utility scale Wind Power Generation.

Certificate of Achievement

Student Learning Outcomes:

1. Identify and list the hazards of working around electrical generation equipment.
2. Illustrate the accepted safety practices in the use of electrical measuring devices (i.e. multimeters, amp meters, infrared testers, etc.).
3. Explain the importance and inter-relationship between turbine maintenance and turbine performance.

FIRST YEAR

| First Semester | | Units |
|-----------------------|--|--------------|
| EST 51 | Direct Current Fundamentals of Electronics | 3 |
| EST 80 | Introduction to Photovoltaics | 3 |
| HLTH 2 | First Aid and Safety | 2 |
| | | Total 8 |

| Second Semester | | Units |
|------------------------|---|--------------|
| EST 52 | Alternating Current Fundamentals..... | 3 |
| EST 96D | National Electric Code – Electrical Safety | 3 |
| WTT 1 | Introduction and Safety in the Utility Wind Turbine Industry .. | 2.5 |
| | | Total 8.5 |

SECOND YEAR

| First Semester | | Units |
|-----------------------|---|--------------|
| EST 58 | Programmable Logic Controllers..... | 3 |
| WTT 2 | Wind Generation and Electrical Circuits | 2.5 |
| | | Total 5.5 |

| Second Semester | | Units |
|------------------------|--|--------------|
| EST 55C | SCADA Systems | 2 |
| WTT 3 | Wind Turbine System Maintenance and Repair | 2.5 |
| | | Total 4.5 |

WOMEN’S STUDIES

WOMEN’S STUDIES – Major #7610

revised program, Fall 2013

This is a transfer program designed to inform students of the historical and contemporary issues affecting women’s lives. Women’s Studies offers a broad interdisciplinary approach to the study of women in society including their contrasting roles circumscribed by their culture and social institutions, their opportunities for self expression, achievement and self actualization, their relationships with parents, peers, intimates and children, and their concern for survival in a violent-prone society. Because Women’s Studies is interdisciplinary, it also provides an academic background helpful to those planning careers in law, business, education and medicine.

Associate in Arts Degree

Student Learning Outcomes:

1. Evaluate the role of women and gender relationships in various cross- and inter-cultural contexts.

2. Analyze the study of the intersections and complications of class, race, age, ethnicity, nationality, health/disability, and sexual identity as fundamental categories of social and cultural analysis.
3. Engage in in-depth examination of one aspect of women's experience learned through (for example) a literary genre, a time period, a geographic region, or focus on a very narrow topic.
4. Connect ideas and concepts from various fields about oppression and patriarchy as these affect women to common themes or topics.
5. Evaluate the roles of women in society from a historical and sociological perspective.

Program Requirements.....20

| Required Core Courses | | Units |
|------------------------------|-------------------------------|--------------|
| WSTS 10 | Changing Roles of Women | 3 |
| WSTS/HS 25 | Assertiveness Training | 2 |
| | | Total 5 |

| Course Options: Select 15 Units | | Units |
|--|--|--------------|
| WSTS/SOC 5 | Sociology of Rape | 3 |
| WSTS/SOC 7 | Domestic Violence: Abuse Within the Family | 3 |
| WSTS/CLS 24 | La Chicana and Latina | 3 |
| WSTS/ENGL 36 | Women in Literature | 3 |
| WSTS/ | | |
| AFRAM 41 | African-American Women's Studies | 3 |
| WSTS/FN 43 | Women's Nutrition | 2 |
| WSTS/BA 44 | Women in Management | 3 |

Note: Associate degree requirements are listed on page 33.

COURSE DESCRIPTIONS

Changes to Pages 190-310

COURSE CLASSIFICATION SYSTEM

Change: add

Mathematics 201

effective Spring 2013

Change: deleted

Accounting 260
Accounting 270
Biology 261
Computer Science 261
Education 200A
Education 200B
English 250
English 279
English 280

effective Fall 2013
effective Fall 2013
effective Spring 2013
effective Fall 2013
effective Spring 2013
effective Spring 2013
effective Fall 2013
effective Fall 2013
effective Fall 2013

SCCCD Intra-District Articulated Courses, Common Courses, and In-Lieu Courses

This is a list of courses that Fresno City College and Reedley College (which includes the North Centers--Clovis, Madera, Oakhurst and Willow International) have agreed to articulate with one another.

Note: Before registering for courses you want to use for transfer (for use in CSU-GE, IGETC or to meet a major requirement at a university), you must verify that the course is listed on Fresno City College's or Reedley College's CSU GE or IGETC pattern or articulation list. Do not ask a friend! Check with the lists provided by Fresno City College, Reedley College and the North Centers--or see the Fresno City College or Reedley College catalogs.

FRESNO CITY COLLEGE

| <u>Course</u> | <u>Title</u> |
|---------------|---|
| ACCTG 4A | Financial Accounting |
| ACCTG 4B | Managerial Accounting |
| ACCTG 19 | Work Experience (Cooperative), Occupational |
| ANTHRO 1 | Biological Anthropology |
| ANTHRO 2 | Cultural Anthropology |
| ANTHRO 3 | Archaeology and World Prehistory |
| ART 2 | Art Appreciation |
| ART 5 | Art History 1 |
| ART 6 | Art History 2 |
| ART 6H | Honors Art History 2 |
| ART 7 | Beginning Drawing |
| ART 9 | Beginning Painting: Oil/Acrylic |
| ART 10 | Beginning Ceramics |
| ART 13 | Beginning Watercolor Painting |
| ART 17 | Intermediate Drawing |
| ART 19 | Intermediate Painting: Oil/Acrylic |
| ART 20 | Intermediate Ceramics |
| ART 23 | Intermediate Watercolor Painting |
| ASL 1 | Beginning American Sign Language |
| ASL 2 | High Beginning American Sign Language |
| ASL 3 | Intermediate American Sign Language |
| ASL 4 | High Inter American Sign Language |

REEDLEY COLLEGE

| <u>Course</u> | <u>Title</u> |
|---------------|---|
| ACCTG 1A | Principles of Accounting |
| ACCTG 1B | Principles of Accounting |
| ACCTG 19V | Cooperative Work Experience, Accounting |
| ANTHRO 1 | Biological Anthropology |
| ANTHRO 2 | Cultural Anthropology |
| ANTHRO 3 | Intro to Archaeology & Prehistory |
| ART 2 | Art Appreciation |
| ART 5 | Art History 1 |
| ART 6 | Art History 2 |
| ART 6H | Honors Art History 2 |
| ART 7 | Beginning Drawing |
| ART 9 | Beginning Painting: Oil/Acrylic |
| ART 10 | Beginning Ceramics |
| ART 13 | Beginning Watercolor Painting |
| ART 17 | Intermediate Drawing |
| ART 19 | Intermediate Painting: Oil/Acrylic |
| ART 20 | Intermediate Ceramics |
| ART 23 | Intermediate Watercolor Painting |
| ASL 1 | Beginning American Sign Language |
| ASL 2 | High Beginning American Sign Language |
| ASL 3 | Intermediate American Sign Language |
| ASL 4 | High Inter American Sign Language |

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|--------------|---|--------------|---|
| ASTRO 10 | Basic Astronomy | ASTRO 10 | Introduction to Astronomy |
| AUTOT 9 | Automotive Essentials | AUTOT 9 | Automotive Essentials |
| BA 5 | Workplace Communication | BA 5 | Business Communications |
| BA 10 | Introduction to Business | BA 10 | Introduction to Business |
| BA 11 | Introduction to Hospitality Management | BA 12 | Introduction to Hospitality |
| BA 18 | Business and the Legal Environment | BA 18 | Business and the Legal Environment |
| BA 19 | Work Experience (Cooperative), Occupational | BA 19V | Cooperative Work Experience, Business |
| BA 27 | CEO/SIFE | BA 27 | SIFE/CEO |
| BA 33 | Human Relations in the Workplace | BA 33 | Human Relations in Business |
| BA 34 | Fundamentals of Investing | BA 34 | Fundamentals of Investing |
| BA 38 | Operation of the Small Business | BA 38 | Operation of the Small Business |
| BA 40 | Supervision and Leadership | BA 15 | Introduction to Management |
| BA 52 | Introduction to Entrepreneurship | BA 52 | Introduction to Entrepreneurship |
| BA 55 | Introduction to Logistics | BA 55 | Introduction to Logistics |
| BIOL 1/1H | Principles of Biology | BIOL 1 | Principles of Biology |
| BIOL 3/3H | Introduction to Life Science | BIOL 3 | Introduction to Life Science |
| BIOL 4 | Principles of Zoology | BIOL 4 | Principles of Zoology |
| BIOL 5 | Human Biology | BIOL 5 | Human Biology |
| BIOL 6 | Principles of Botany | BIOL 6 | Principles of Botany |
| BIOL 11A | Biology for Science Majors I | BIOL 11A | Biology for Science Majors I |
| BIOL 11AH | Honors Biology for Science Majors I | BIOL 11AH | Honors Biology for Science Majors I |
| BIOL 11B | Biology for Science Majors II | BIOL 11B | Biology for Science Majors II |
| BIOL 20 | Human Anatomy | BIOL 20 | Human Anatomy |
| BIOL 22 | Human Physiology | BIOL 22 | Human Physiology |
| BIOL 31 | Microbiology | BIOL 31 | Microbiology |
| BT 4 | Ten-Key Calculation | BA 46 | Calculator Applications |
| BT 5 | Workplace Communication | BA 5 | Business Communications |
| BT 19 | Work Experience (Cooperative), Occupational* | OT 19V | Cooperative Work Experience, Office Tech* |
| CHDEV 1 | Principles and Practices of Teaching Young Children | CHDEV 1 | Prin & Practices of Teaching Young Children |
| CHDEV 3 | Introduction to Curriculum | CHDEV 3 | Introduction to Curriculum |
| CHDEV 5 | Parent Education | CHDEV 5 | Parent Education |
| CHDEV 6 | Health, Safety & Nutrition in ECE | CHDEV 6 | Health, Safety & Nutrition in ECE |
| CHDEV 8B | Programs for School Age Child Care | CHDEV 8B | Programs for School Age Child Care |
| CHDEV 11 | The Young Child with Special Needs | CHDEV 33 | Exceptional Children |
| CHDEV/PSY 12 | Child Abuse | CHDEV 12 | Child Abuse |
| CHDEV 15 | Diversity Issues in Early Care & Ed Programs | CHDEV 15 | Diversity Issues in Early Care & Ed Program |
| CHDEV 16 | Intro to Early Intervention | CHDEV 32 | Intro to Early Intervention (3-unit course) |
| CHDEV 17A | Infant Development – Birth to Age Three | CHDEV 7 | Infant-Toddler Development and Care |
| CHDEV 17B | Advanced Infant Toddler Development & Care | CHDEV 7A | Advanced Infant Toddler Develop & Care |
| CHDEV 20 | Observation and Assessment | CHDEV 20 | Observation and Assessment |
| CHDEV 30 | Child, Family and Community | CHDEV 30 | Child, Family and Community |
| CHDEV 37A | Early Childhood Practicum | CHDEV 37A | Early Childhood Practicum |
| CHDEV 37B | Adv. Practicum in Early Childhood Education | CHDEV 37B | Adv. Practicum in Early Childhood Educ |
| CHDEV/PSY 38 | Lifespan Development | CHDEV/PSY 38 | Lifespan Development |
| CHDEV/PSY 39 | Child Growth and Development | CHDEV 39 | Child Growth and Development |
| CHDEV 40A | Admin of Early Childhood Programs | CHDEV 40A | Admin of Early Childhood Programs |
| CHDEV 40B | Adv Admin of Early Childhood Programs | CHDEV 40B | Adv Admin of Early Childhood Programs |
| CHDEV 42 | Child Nutrition | FN 42 | Child Nutrition |
| CHDEV 45 | Adult Supervision in Early ECE Classrooms | CHDEV 45 | Supervision of Adults in ECE Classrooms |
| CHEM 1A | General Chemistry | CHEM 1A | General Chemistry |
| CHEM 1B | General Chemistry & Qual Analysis | CHEM 1B | General Chemistry & Qual Analysis |
| CHEM 3A | Introductory General Chemistry | CHEM 3A | Introductory General Chemistry |
| CHEM 3B | Intro Organic & Biological Chemistry | CHEM 3B | Intro Organic & Biological Chemistry |
| CHEM 8A | Elementary Organic Chemistry | CHEM 8 | Elementary Organic Chemistry |
| CHEM 28A | Organic Chemistry I | CHEM 28A | Organic Chemistry I |
| CHEM 28B | Organic Chemistry II | CHEM 28B | Organic Chemistry II |
| CHEM 29A | Organic Chemistry Laboratory I | CHEM 29A | Organic Chemistry Laboratory I |
| CHEM 29B | Organic Chemistry Laboratory II | CHEM 29B | Organic Chemistry Laboratory II |
| CHIN 1 | Beginning Chinese | CHIN 1 | Beginning Chinese |
| CHIN 2 | High-Beginning Chinese | CHIN 2 | High-Beginning Chinese |
| CIT 12 | Computer Literacy | IS 12 | Computer Literacy |
| CIT 15 | Computer Concepts | IS 15 | Computer Concepts |

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| CIT 19 | Work Experience (Cooperative), Occupational | IS 19V | Cooperative Work Experience, Info Sys |
| CIT 23 | Spreadsheet Fundamentals | IS 18 | Spreadsheet Fundamentals |
| CIT 60 | Beginning Visual Basic | IS 47 | Visual Basic |
| CIT 63 | Beginning Java Programming | IS 33 | Beginning Java Programming |
| CIT 202 | Introduction to Online Learning | IS 202 | Introduction to Online Learning |
| CLS 21 | Chicano Literature | ENGL 49 | Latino & Chicano Literature |
| COMM 1 | Introduction to Public Speaking | COMM 1 | Introduction to Public Speaking |
| COMM 1 | Introduction to Public Speaking | COMM 1H | Honors Intro to Public Speaking |
| COMM 2 | Interpersonal Communication | COMM 2 | Interpersonal Communication |
| COMM 4 | Persuasion | COMM 4 | Persuasion |
| COMM 8 | Group Communication | COMM 8 | Group Communication |
| COMM 12 | Fundamentals of Interpretation | COMM 12 | Fundamentals of Interpretation |
| COMM 25 | Argumentation | COMM 25 | Argumentation |
| COUN 53 | College and Life Management | COUN 53 | College and Life Management |
| COUN 147AB | College Study Skills, Academic Skills | COUN 47 | Learning Strategies |
| CRIM 1 | Introduction to Criminology | CRIM 1 | Introduction to Criminology |
| CRIM 3 | Legal Aspects of Evidence | CRIM 3 | Legal Aspects of Evidence |
| CRIM 4 | Princ & Proce of the Justice System | CRIM 4 | Princ & Proce of the Justice System |
| CRIM 5 | Community Relations | CRIM 5 | Community Relations |
| CRIM 6 | Concepts of Criminal Law | CRIM 6 | Criminal Law |
| CRIM 7 | Concepts of Enforcement Services | CRIM 7 | Police Operations & Procedures |
| CRIM 8 | Criminal Investigation | CRIM 8 | Criminal Investigations |
| CRIM 11 | Juvenile Delinquency | CRIM 11 | Juvenile Delinquency |
| CRIM 12 | Criminal Justice Communications | CRIM 12 | Criminal Justice Communications |
| CRIM 13 | The Constitution and Your Individual Rights | CRIM 13 | The Constitution and Your Individual Rights |
| CRIM 15 | Introduction to Police Ethics | CRIM 15 | Introduction to Police Ethics |
| CRIM 19 | Work Experience (Cooperative), Occupational | CRIM 19V | Cooperative Work Experience, Crim. Just |
| CRIM 20 | Introduction to Corrections | CRIM 20 | Introduction to Corrections |
| CRIM 23 | Correctional Interviewing and Counseling | CRIM 23 | Correctional Interviewing and Counseling |
| CRIM 24 | Control and Supervision in Corrections | CRIM 24 | Control and Supervision in Corrections |
| CSCI 26 | Discrete Mathematics for Computer Science | CSCI 26 | Discrete Mathematics for Computer Science |
| CSCI 40 | Programming Concepts & Methodology I | ENGR 40 | Programming for Sci & Engin |
| CSCI 40 | Programming Concepts & Methodology I | CSCI 40 | Programming Concepts & Methodology I |
| CSCI 41 | Programming Concepts & Methodology II | CSCI 41 | Programming Concepts & Methodology II |
| DANCE 9 | Dance Conditioning | DANCE 9 | Dance Conditioning |
| DANCE 10 | Beginning Modern Dance Techniques | DANCE 10 | Modern Dance |
| DANCE 14 | Beginning Jazz Dance Techniques | DANCE 14 | Beginning Jazz Dance |
| DEVSER 250 | Workability Assessment and Career Awareness | DEVSER 250 | Workability Assessment and Career Aware |
| DEVSER 251 | Workability Preparation and Job Placement | DEVSER 251 | Workability Preparation and Job Placement |
| DEVSER 252 | Workability strategies and Job Maintenance | DEVSER 252 | Workability strategies and Job Maintenance |
| DEVSER 255 | Workability Experience | DEVSER 255 | Workability Experience |
| DEVSER 262 | Group Interaction for Students w/Disabilities | DEVSER 262 | Group Interaction for Students w/Disabilities |
| DEVSER 264 | Transition to College for Students w/Disabilities | DEVSER 240 | Trans to College for Students w/Disabilities |
| DEVSER 272 | Consumer Skills | DEVSER 272 | Consumer Skills |
| DEVSER 273 | Independent Living Skills for DSP&S Students | DEVSER 273 | Independent Living Skills |
| DEVSER 275 | Horticulture Skills I | DEVSER 275 | Horticulture Skills I |
| DEVSER 276 | Horticulture Skills II | DEVSER 276 | Horticulture Skills II |
| DEVSER 277 | Adapted Computer Literacy | DEVSER 277 | Adapted Computer Literacy |
| DS 23 | Business Statistics | STAT 7 | Elementary Statistics |
| DS 117 | Business Mathematics | DS 117 | Business Mathematics |
| ECON 40 | Intro to Microeconomics | ECON 1B | Intro to Microeconomics |
| ECON 50 | Intro to Macroeconomics | ECON 1A | Intro to Macroeconomics |
| EDUC 30 | Survey of American Education | EDUC 10 | Introduction to Teaching |
| ENGL 1A | Reading and Composition | ENGL 1A | Reading and Composition |
| ENGL 1AH | Honors Reading and Composition | ENGL 1AH | Honors Reading and Composition |
| ENGL 1B | Intro to the Study of Literature | ENGL 1B | Intro to the Study of Literature |
| ENGL 1BH | Honors Intro to the Study of Literature | ENGL 1BH | Honors Intro to the Study of Literature |
| ENGL 3 | Critical Reading and Writing | ENGL 3 | Critical Reading and Writing |
| ENGL 3H | Honors Critical Reading and Writing | ENGL 3H | Honors Critical Reading and Writing |
| ENGL 15A | Creative Writing: Poetry | ENGL 15A | Creative Writing: Poetry |
| ENGL 15B | Creative Writing: Fiction | ENGL 15B | Creative Writing: Fiction |
| ENGL 44A | World Literature to the Renaissance | ENGL 44A | World Literature to the Renaissance |

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| ENGL 44B | World Literature since the Renaissance | ENGL 44B | World Literature since the Renaissance |
| ENGL 46A | English Literature to 1800 | ENGL 46A | English Literature to 1800 |
| ENGL 46B | English Literature from 1800 to Present | ENGL 46B | English Literature from 1800 to Present |
| ENGL 47 | Introduction to Shakespeare | ENGL 47 | Introduction to Shakespeare |
| ENGL 105 | Grammar and Punctuation | ENGL 105 | Grammar and Punctuation |
| ENGL 125 | Writing Skills for College | ENGL 125 | Writing Skills for College |
| ENGL 126 | Reading Skills for College | ENGL 126 | Reading Skills for College |
| ENGL 252 | Writing Improvement | ENGL 252 | Writing Improvement |
| ENGL 260 | Basic Reading | ENGL 260 | Basic Reading |
| ENGL 262 | Reading Improvement | ENGL 262 | Reading Improvement |
| ENGR 2 | Graphics | ENGR 2 | Graphics |
| ENGR 4 | Engineering Materials | ENGR 4 | Engineering Materials |
| ENGR 6 | Circuits with Lab | ENGR 6 | Circuits with Lab |
| ENGR 8 | Statics | ENGR 8 | Statics |
| ENGR 10 | Introduction to Engineering | ENGR 10 | Introduction to Engineering |
| ESL 264R | Intermediate Reading and Vocabulary | ESL 266R | Inter Academic Reading and Vocabulary |
| ESL 264W | Intermediate Writing and Grammar | ESL 266W | Inter Academic Writing and Grammar |
| ESL 265R | High Intermediate Reading and Vocabulary | ESL 225W | High Intermediate Academic Reading |
| ESL 265W | High Intermediate Writing and Grammar | ESL 226R | High Intermediate Academic Writing |
| EST 61 | Networking Fundamentals | IS 49A | LAN Fundamentals – Cisco I |
| EST 62 | Router Protocols and Concepts*** | IS 49B | Router Theory & Technology – Cisco II Tech |
| EST 63 | Adv. Routing & Switching | IS 49C | Ad. Routing & Switching – Cisco III Switching |
| EST 64 | Adv. Networking & Management | IS 49D | Adv. Networking & Mgmt – Cisco IV Mgmt |
| FILM 1 | Introduction to Film Studies | FILM 1 | Introduction to Film Studies |
| FILM 2A | History of Cinema 1895-1960 | FILM 2A | History of Cinema: 1895-1960 |
| FILM 2B | History of Cinema 1960 to Present | FILM 2B | History of Cinema:1960 to Present |
| FILM 5 | Digital Filmmaking | FILM 5 | Digital Filmmaking |
| FN 35 | Nutrition and Health | FN 35 | Nutrition and Health |
| FN 40 | Nutrition | FN 40 | Nutrition |
| FN 41 | Sports Nutrition | FN 41 | Sports Nutrition |
| FRENCH 1 | Beginning French | FRENCH 1 | Beginning French |
| FRENCH 2 | High-Beginning French | FRENCH 2 | High-Beginning French |
| FRENCH 3 | Intermediate French | FRENCH 3 | Intermediate French |
| FRENCH 4 | High-Intermediate French | FRENCH 4 | High-Intermediate French |
| GEOL 1 | Physical Geology | GEOL 1 | Physical Geology |
| GEOL 2 | Historical Geology | GEOL 2 | Historical Geology |
| GEOL 9 | Introduction to Earth Science | GEOL 9 | Introduction to Earth Science |
| GERMAN 1 | Beginning German | GERMAN 1 | Beginning German |
| GERMAN 2 | High-Beginning German | GERMAN 2 | High-Beginning German |
| GERMAN 3 | Intermediate German | GERMAN 3 | Intermediate German |
| GERMAN 4 | High-Intermediate German | GERMAN 4 | High-Intermediate German |
| HIST 1 | Western Civilization to 1648 | HIST 1 | Western Civilization to 1648 |
| HIST 2 | Western Civilization since 1648 | HIST 2 | Western Civilization since 1648 |
| HIST 11 | History of the United States to 1877 | HIST 11 | History of the United States to 1877 |
| HIST 12 | History of the United States since 1877 | HIST 12 | History of the United States since 1877 |
| HIST 20 | World History I, to 1600** | HIST 20 | Comparative World Civilizations to 1600 |
| HIST 22 | History of American Women | HIST 22 | History of American Women |
| HIT 10 | Medical Terminology | OT 10 | Medical Terminology |
| HLTH 1 | Contemporary Health Issues | HLTH 1 | Contemporary Health Issues |
| HLTH 2 | First Aid and Safety | HLTH 2 | First Aid and Safety |
| HS 19A | Work Experience (Cooperative), Occupational | HS 19V | Cooperative Work Experience, Human Serv |
| HS 20 | Introduction to Social Work | HS 20 | Introduction to Social Work |
| HS 24 | Fundamentals of Interviewing and Counseling | HS 24 | Fundamentals of Interviewing & Counseling |
| HS 30 | Group and Community Social Services | HS 30 | Group and Community Social Services |
| INTRDSN 7 | Interior Design | FM 30 | Interior Design |
| JOURN 1 | Introduction to Mass Communications | JOURN 1 | Introduction to Mass Communications |
| JOURN 3 | Newswriting | JOURN 3 | Newswriting |
| JOURN 19 | Work Experience (Cooperative), Occupational | JOURN 19 | Cooperative Work Experience, Journalism |
| LIBSKL 1 | Information Competency/Research Skills | LIBSKL 1 | Information Competency/Research Skills |
| LING 10 | Introduction to Language | LING 10 | Introduction to Language |
| LING 11 | Intro to Language for Educators | LING 11 | Intro to Language |
| MATH 4A | Trigonometry | MATH 4A | Trigonometry |

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|-----------|--|----------------|--|
| MATH 4B | Pre-calculus | MATH 4B | Precalculus |
| MATH 5A | Math Analysis I | MATH 5A | Math Analysis I |
| MATH 5B | Math Analysis II | MATH 5B | Math Analysis II |
| MATH 6 | Math Analysis III | MATH 6 | Math Analysis III |
| MATH 7 | Introduction to Differential Equations | MATH 7 | Introduction to Differential Equations |
| MATH 10A | Structure and Concepts in Mathematics I | MATH 10A | Structure and Concepts in Mathematics I |
| MATH 10B | Structure and Concepts in Mathematics II | MATH 10B | Structure and Concepts in Mathematics II |
| MATH 11 | Elementary Statistics | MATH 11/STAT 7 | Elementary Statistics |
| MATH 45 | Contemporary Mathematics | MATH 45 | Contemporary Mathematics |
| MATH 102 | Plane Geometry | MATH 102 | Plane Geometry |
| MATH 103 | Intermediate Algebra | MATH 103 | Intermediate Algebra |
| MATH 201 | Elementary Algebra | MATH 201 | Elementary Algebra |
| MATH 250 | College Arithmetic | MATH 250 | College Arithmetic |
| MATH 255 | Pre-Algebra | MATH 256 | Algebra Topics |
| MKTG 10 | Principles of Marketing | MKTG 10 | Marketing |
| MKTG 11 | Salesmanship | MKTG 11 | Salesmanship |
| MKTG 12 | Advertising and Promotion | MKTG 12 | Advertising and Promotion |
| MKTG 14 | Retailing | MKTG 14 | Retailing |
| MUS 1A | Music Theory I | MUS1A | Music Theory I |
| MUS 1B | Music Theory II | MUS 1B | Music Theory II |
| MUS 2A | Music Theory III | MUS 2A | Music Theory III |
| MUS 2B | Music Theory IV | MUS 2B | Music Theory IV |
| MUS 3 | Music Fundamentals | MUS 3 | Music Fundamentals |
| MUS 7A | Ear Training: Level I | MUS 7A | Ear Training: Level I |
| MUS 7B | Ear Training: Level II | MUS 7B | Ear Training: Level II |
| MUS 12 | Music Appreciation | MUS 12 | Music Appreciation |
| MUS 16 | Jazz History and Appreciation | MUS 16 | Jazz History and Appreciation |
| MUS 18 | Basic Conducting and Score Reading | MUS 18 | Basic Conducting and Score Reading |
| MUS 20 | Beginning Piano: Level I | MUS 20 | Beginning Piano: Level I |
| MUS 21 | Beginning Piano: Level II | MUS 21 | Beginning Piano: Level II |
| MUS 22 | Intermediate/Advanced Piano | MUS 22 | Intermediate/Advanced Piano |
| MUS 24 | Elementary Voice: Level I | MUS 24 | Elementary Voice: Level I |
| MUS 27 | Beginning Guitar: Level I | MUS 27 | Beginning Guitar: Level I |
| MUS 28 | Beginning Guitar: Level II | MUS 28 | Basic Guitar: Level II |
| MUS 30 | College Choir | MUS 31 | Concert Choir |
| MUS 40 | Concert Band | MUS 40 | Concert Band |
| MUS 41 | Jazz Ensembles | MUS 41 | Jazz Ensembles |
| NATSCI 1A | Integrated Sci: Physics & Chemistry | SCI 1A | Introductory Chemical & Physical Science |
| PE 4 | Badminton | PE 4 | Badminton |
| PE 5 | Basketball | PE 5 | Basketball |
| PE 6 | Fitness and Health | PE 6 | Fitness and Health |
| PE 7 | Golf | PE 7 | Golf |
| PE 12 | Swimming | PE 12 | Beginning Swim for fitness |
| PE 13 | Tennis | PE 13 | Tennis |
| PE 14 | Volleyball | PE 14 | Volleyball |
| PE 20 | Athletic Training | PE 20 | Athletic Training |
| PE 30A | Theory of Baseball | PE 30A | Theory of Baseball |
| PE 30B | Competitive Baseball | PE 30B | Competitive Baseball |
| PE 30C | Off-Season Conditioning for Baseball | PE 30C | Off-Season Conditioning for Baseball |
| PE 31A | Theory of Basketball | PE 31A | Theory of Basketball |
| PE 31B | Competitive Basketball | PE 31B | Competitive Basketball |
| PE 31C | Off-Season Conditioning for Basketball | PE 31C | Off-Season Conditioning for Basketball |
| PE 33A | Theory of Football | PE 33A | Theory of Football |
| PE 33B | Competitive Football | PE 33B | Competitive Football |
| PE 33C | Off-Season Conditioning for Football | PE 33C | Off-Season Conditioning for Football |
| PE 34A | Theory of Golf | PE 34A | Theory of Golf |
| PE 34B | Competitive Golf | PE 34B | Competitive Golf |
| PE 34C | Off-Season Conditioning for Golf | PE 34C | Off-Season Conditioning for Golf |
| PE 33B | Pep and Cheer | PE 33B | Pep and Cheer |
| PE 37A | Theory of Softball | PE 37A | Theory of Softball |
| PE 37B | Competitive Softball | PE 37B | Competitive Softball |
| PE 37C | Off-Season Conditioning for Softball | PE 37C | Off-Season Conditioning for Softball |

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|--------------|---|--------------|---|
| PE 38A | Theory of Tennis | PE 38A | Theory of Tennis |
| PE 38B | Competitive Tennis | PE 38B | Competitive Tennis |
| PE 38C | Off-Season Conditioning for Tennis | PE 38C | Off-Season Conditioning for Tennis |
| PE 39A | Theory of Track & Field | PE 39A | Theory of Track & Field |
| PE 39B | Competitive Track & Field | PE 39B | Competitive Track & Field |
| PE 39C | Off-Season Conditioning for Track & Field | PE 39C | Off-Season Conditioning for Track & Field |
| PE 40A | Theory of Volleyball | PE 40A | Theory of Volleyball |
| PE 40B | Competitive Volleyball | PE 40B | Competitive Volleyball |
| PE 40C | Off-Season Conditioning for Volleyball | PE 40C | Off-Season Conditioning for Volleyball |
| PE 62 | Introduction to Kinesiology | PE 22 | Introduction to Physical Education |
| PHIL 1A | Theories of Knowledge and Reality | PHIL 1 | Introduction to Philosophy |
| PHIL 1C | Ethics | PHIL 1C | Ethics |
| PHIL 1C | Ethics | PHIL 1CH | Honors Ethics |
| PHIL 1D | World Religions | PHIL 1D | World Religions |
| PHIL 2 | Critical Reasoning and Analytic Writing | PHIL 2 | Critical Reasoning |
| PHIL 6 | Symbolic Logic | PHIL 6 | Introduction to Logic |
| PHOTO 5 | Introduction to Photography | PHOTO 1 | Basics of Digital Photography |
| PHYS 2A | General Physics 1 | PHYS 2A | General Physics 1 |
| PHYS 2B | General Physics 2 | PHYS 2B | General Physics 2 |
| PHYS 4A | Physics for Scientists & Engineers | PHYS 4A | Physics for Scientists & Engineers |
| PHYS 4B | Physics for Scientists & Engineers | PHYS 4B | Physics for Scientists & Engineers |
| PHYS 4C | Physics for Scientists & Engineers | PHYS 4C | Physics for Scientists & Engineers |
| POLSCI 2 | American Government | POLSCI 2 | American Government |
| POLSCI 2H | Honors American Government | POLSCI 2H | Honors American Government |
| POLSCI 5 | Comparative Government | POLSCI 5 | Comparative Government |
| POLSCI 110 | American Institutions | POLSCI 110 | American Institutions |
| PSY 2 | General Psychology | PSY 2 | General Psychology |
| PSY 2H | Honors General Psychology | PSY 2H | Honors General Psychology |
| PSY 5 | Social Psychology | PSY 5 | Social Psychology |
| PSY/CHDEV 12 | Child Abuse | CHDEV 12 | Child Abuse |
| PSY 16 | Abnormal Psychology | PSY 16 | Abnormal Psychology |
| PSY 25 | Human Sexuality | PSY 25 | Human Sexuality |
| PSY/CHDEV 38 | Lifespan Development | PSY/CHDEV 38 | Lifespan Development |
| RE 40 | Real Estate Principles | RE 40 | Real Estate Principles |
| RE 41 | Real Estate Practice | RE 41 | Real Estate Practice |
| RE 42 | Legal Aspects of Real Estate | RE 42 | Legal Aspects of Real Estate |
| RE 43 | Real Estate Appraisal I | RE 43 | Real Estate Appraisal |
| RN 33 | Transcultural Health Care | RN 78 | Foundations of Multicultural Nursing Care |
| SOC 1A | Introduction to Sociology | SOC 1A | Introduction to Sociology |
| SOC 1AH | Honors Introduction to Sociology | SOC 1A | Introduction to Sociology |
| SOC 1B | Critical Thinking about Social Problems | SOC 1B | Critical Thinking about Social Problems |
| SOC 2 | American Minority Groups | SOC 2 | American Minority Groups |
| SOC 32 | Introduction to Marriage and Family | SOC 32 | Courtship, Marriage, Divorce |
| SPAN 1 | Beginning Spanish | SPAN 1 | Beginning Spanish |
| SPAN 2 | High Beginning Spanish | SPAN 2 | High Beginning Spanish |
| SPAN 3 | Intermediate Spanish | SPAN 3 | Intermediate Spanish |
| SPAN 3NS | Spanish for Spanish Speakers | SPAN 3NS | Spanish for Spanish Speakers |
| SPAN 4 | High Intermediate Spanish | SPAN 4 | High Intermediate Spanish |
| SPAN 4NS | Spanish for Spanish Speakers | SPAN 4NS | Spanish for Spanish Speakers |
| WKEXP 19 | Work Experience (Cooperative), General | COTR 19G | Cooperative Work Experience Education |
| WTD 106 | Basic Water Treatment | WTD 106 | Basic Wastewater Treatment and Distribution |
| WTD 107 | Advanced Wastewater Treatment | WTD 107 | Advanced Wastewater Treatment |
| WTD 114 | Water Mathematics | WTD 114 | Water Mathematics |

Courses

Accounting (ACCTG)

Change: advisory

effective Spring 2013

4A Financial Accounting, 4 units, 4 lecture hours, 1 lab hour

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended. Enrolled or previously enrolled completed Computer Information Technology 12 or 15.

Change: prerequisite, advisory, description, C-ID designation

effective Fall 2013

4A Financial Accounting, 4 units, 4 lecture hours, 1 lab hour

Prerequisite: English 125 and 126 and Mathematics 201 or equivalent. **Advisory:** Enrolled or previously completed Computer Information Technology 12 or 15.

Explores what financial accounting is, why it is important, and how it is used by investors and creditors to make decisions. Covers the accounting information system and the recording and reporting of business transactions with a focus on the accounting cycle, financial statements, and statement analysis. Includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flows, internal controls, and ethics. (C-ID ACCT 110) (A, CSU, UC)

Change: advisory

effective Spring 2013

4AH Honors Financial Accounting, 4 units, 4 lecture hours, 1 lab hour

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended. Enrolled or previously enrolled completed Computer Information Technology 12 or 15. Meet the qualifications for consideration for acceptance in the Honors Program recommended. See Honors listing in the college catalog.

Change: advisory, description, C-ID designation

effective Fall 2013

4AH Honors Financial Accounting, 4 units, 4 lecture hours, 1 lab hour

Advisory: Meet the qualifications for consideration for acceptance in the Honors Program recommended. See Honors listing in the college catalog.

Explores what financial accounting is, why it is important, and how it is used by investors and creditors to make decisions. Covers the accounting information system and the recording and reporting of business transactions with a focus on the accounting cycle, financial statements, and statement analysis. Includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flows, internal controls, and ethics. (C-ID ACCT 110) (A, CSU, UC)

Change: prerequisite, description, C-ID designation

effective Fall 2013

4B Managerial Accounting, 4 units, 4 lecture hours, 1 lab hour

Prerequisite: Accounting 4A or equivalent.

Examination of how managers use accounting information in making decisions related to planning, directing, and controlling. Covers cost terms and concepts, cost control, accounting for costs in manufacturing and service organizations, cost behavior, cost structure, cost-volume-profit analysis, profit planning, standard costs, and capital budgeting. (C-ID ACCT 120) (A, CSU, UC)

Change: prerequisite, description, C-ID designation

effective Fall 2013

4BH Honors Managerial Accounting, 4 units, 4 lecture hours, 1 lab hour

Prerequisite: Accounting 4A or equivalent. **Advisory:** Meet the requirements for consideration for acceptance into the Honors Program. See Honors Program listing in the college catalog.

Examination of how managers use accounting information in making decisions related to planning, directing, and controlling. Covers cost terms and concepts, cost control, accounting for costs in manufacturing and service organizations, cost behavior, cost structure, cost-volume-profit analysis, profit planning, standard costs, and capital budgeting. (C-ID ACCT 120) (A, CSU, UC)

Change: repeats

effective Fall 2013

19 Work Experience (Cooperative), Occupational, 1-8 units

Change: prerequisite, advisory, description

effective Fall 2013

32A Computerized Accounting, 1 unit, 1 lecture hour, .5 lab hour, (Formerly Accounting 31 and 32)

Prerequisite: Accounting 4A or equivalent.

Introduction to accounting procedures and applications on microcomputer based software for accountants and business managers in the areas of general ledger, accounts receivable, accounts payable, inventory, and payroll. Course utilizes publisher developed integrated accounting software. (A, CSU)

Change: prerequisite, corequisite, description

effective Fall 2013

34 Accounting Spreadsheets, 2 units, 2 lecture hours, 1 lab hour

Prerequisite: Accounting 4A or equivalent.

Microsoft Excel spreadsheets applied to accounting scenarios. Course covers creating a worksheet, formatting the worksheet, using formulas and functions, creating reports and graphs, and applying advanced Excel applications to accounting problems. (A, CSU)

Change: prerequisite, advisory, description **effective Fall 2013**

51 Intermediate Accounting, 3 units, 3 lecture hours, 1 lab hour, (Formerly Accounting 51 and 151)

Prerequisite: Accounting 4A or equivalent.

Preparation and analysis of the Balance Sheet, Income Statement, and Statement of Cash Flows. Examination of accounting theory, conceptual framework underlying financial accounting, time value of money, accounting for current and fixed assets, current and long-term liabilities, and stockholders' equity. (A, CSU)

Change: prerequisite, advisory, description **effective Fall 2013**

52 Cost Accounting, 3 units, 3 lecture hours, 1 lab hour, (Formerly Accounting 52 and 152)

Prerequisite: Accounting 4B or equivalent.

Emphasis is given the management functions of planning, organizing, and controlling. In-depth examination of job order, process, and activity based cost systems, standard costs, the master budget, flexible budgeting, and capital budgeting. (A, CSU)

Change: title, prerequisite, advisory, description **effective Fall 2013**

53 Tax Accounting, 3 units, 3 lecture hours, 1 lab hour, (Formerly Accounting 53 and 153)

Prerequisite: Accounting 4A or equivalent.

Covers individual income taxes including calculation of gross income, exclusions, deductions, losses, credits, and property transactions. Requires students to utilize a computerized tax system to reinforce concepts and methodology presented in the course. (A, CSU)

New course **effective Spring 2013**

54A Principles of Auditing, 3 units, 3 lecture hours

Prerequisite: Accounting 4A or 4AH.

Explores the objectives and techniques in verification of business financial statements. Covers the duties, responsibilities, and professional ethics of the auditor, the auditor's report, and analysis of internal controls. (A, CSU)

Change: prerequisite, description **effective Fall 2013**

54A Principles of Auditing, 3 units, 3 lecture hours

Prerequisite: Accounting 4A or equivalent.

Explores the objectives and the techniques in the verification of business financial statements. Covers the duties, responsibilities, and professional ethics of the auditor, the auditor's report, and analysis of internal controls. (A, CSU)

Change: prerequisite, corequisite, description **effective Fall 2013**

55 Accounting Methods, 1.5 units, 1.5 lecture hours

Prerequisite: Accounting 4A or equivalent.

Covers accepted accounting methods for accounts receivable, notes receivable, inventory, and fixed assets. Explores the impact of these methods on profitability and in financial position. (A, CSU)

Change: units, hours, prerequisite, description **effective Fall 2013**

56 Payroll Accounting, 3 units, 3 lecture hours

Prerequisite: Accounting 4A or equivalent.

Covers payroll accounting including computing gross wages, tax withholdings and net pay, maintaining payroll records, journalizing payroll transactions, and preparing federal tax forms. (A, CSU)

Change: prerequisite **effective Fall 2013**

57 Governmental Accounting, 3 units, 3 lecture hours

Prerequisite: Accounting 4A or equivalent.

Course deleted **effective Fall 2013**

58 Accounting Practicum I, 1 unit, .5 lecture hour, 1 lab hour

Course deleted **effective Fall 2013**

59 Accounting Practicum II, 1 units, .5 lecture hour, 1 lab hour

New Course **effective Fall 2013**

61 Forensic Accounting, 3 units, 3 lecture hours

Prerequisite: Accounting 4A or equivalent.

The action of identifying, recording, settling, extracting, sorting, reporting, and verifying past financial data or other accounting activities in settling current or prospective legal disputes or using such past financial data in projecting future financial data to settle legal disputes. (A, CSU)

Change: prerequisite, corequisite, description **effective Fall 2013**

70 QuickBooks Fundamentals, 2 units, 2 lecture hours, 1 lab hour

Prerequisite: Accounting 4A or equivalent.

Introduction to accounting procedures and applications using QuickBooks including setting up companies, general ledger, sales processing, accounts receivable, purchasing, accounts payable, bank reconciliation, and payroll. (A, CSU)

Change: title, prerequisite, description **effective Fall 2013**

73 Sage 100/MAS 90 Fundamentals, 2 units, 2 lecture hours, 1 lab hour

Prerequisite: Accounting 4A or equivalent.

Introduction to accounting procedures and applications using Sage 100 (formerly MAS 90) software. Curriculum covers creating a new company and performing accounting functions using the general ledger, accounts receivable, accounts payable, payroll, and bank reconciliation modules. (A, CSU)

Course deleted **effective Fall 2013**

260 Accounting Skills Lab, 1 unit, 3 lab hours, (Repeats = 3), (Formerly Accounting 60)

Course deleted **effective Fall 2013**

270 Accounting Math Skills, 1.5 units, 1.5 lecture hours, (Formerly Decision Science 70 and 270)

Administration of Justice (AJ)

Change: repeats **effective Fall 2013**

204 Instructor Training, 1 unit, 25.2 lecture hours, 8.4 lab hours, (1 week), (Pass/No Pass), (Formerly Administration of Justice 104)

Change: repeats **effective Fall 2013**

211 Expandable Straight Baton Instructor, .5 unit, 6.4 lecture hours, 10.6 lab hours, (1 week), (Pass/No Pass)

Change: repeats **effective Fall 2013**

217 Background Investigation, 1 unit, 28.2 lecture hours, 5.4 lab hours, (1 week), (Pass/No Pass), (Formerly Administration of Justice 117)

Change: repeats **effective Fall 2013**

219 Requalification – Basic Course, 3 units, 11.4 lecture hours, 5.4 lab hours, (9 weeks), (Pass/No Pass), (Formerly Administration of Justice 119)

Change: repeats **effective Fall 2013**

220 Radar Operator, .5 unit, 21 lecture hours, 4.2 lab hours, (1 week), (Pass/No Pass)

Change: repeats **effective Fall 2013**

221 Explosive Recognition for First Responders, .5 unit, 8.4 lecture hours, 8.4 lab hours, (1 week), (Pass/No Pass)

Change: repeats **effective Fall 2013**

269A Advanced Officer Topics #2, .1-2 units, 2.33 lecture hours, 2.33 lab hours, (1-18 weeks), (Pass/No Pass), (Open Entry/Open Exit)

Course deleted **effective Fall 2013**

270 Basic Police Academy, 30 units, 15.8-24.9 lecture hours, 12.6-19.2 lab hours, (40 weeks), (Pass/No Pass), (Repeats = 3)

Change: repeats **effective Fall 2013**

270A Basic Police Academy – Part 1, 10 units, 20.3 lecture hours, 8.8 lab hours, (19 weeks), (Pass/No Pass)

Change: repeats **effective Fall 2013**

270B Basic Police Academy – Part 2, 13 units, 18 lecture hours, 11.1 lab hours, (23 weeks), (Pass/No Pass)

Change: repeats **effective Fall 2013**

271A PC 832 Laws of Arrest/Arrest & Control, 1 unit, 31.5 lecture hours, 10.5 lab hours, (1 week), (Pass/No Pass)

Change: repeats **effective Fall 2013**

271B PC 832 Firearms, .5 unit, 4.2 lecture hours, 21 lab hours, (1 week), (Pass/No Pass)

Change: repeats, prerequisite **effective Fall 2013**

272 Regular Basic Course – Modular Format – Module III, 4 units, 9 lecture hours, 3.4 lab hours

Prerequisite: Valid Class C California Driver's License. Proof of a Department of Justice criminal history clearance to possess a firearm (PC 13511.5) or be sponsored by a law enforcement agency.

Change: repeats *effective Fall 2013*
273 Regular Basic Course – Modular Format – Module II, 5.5 units, 11.1 lecture hours, 6.1 lab hours

Change: repeats *effective Fall 2013*
274 Regular Basic Course – Modular Format – Module I, 11 units, 18 lecture hours, 8.7 lab hours, (22 weeks)

Change: repeats *effective Fall 2013*
276 Basic Supervisors, 2 units, 21 lecture hours, 21 lab hours, (2 weeks), (Formerly Administration of Justice 73 and 76)

Change: repeats *effective Fall 2013*
278 Public Safety Dispatcher, 3 units, 7.2 lecture hours, 1.2 lab hours, (15 weeks), (Pass/No Pass), (Formerly Administration of Justice 89 and 78)

Change: repeats *effective Fall 2013*
279 Citizens' Police Academy, 1 unit, 3.2 lecture hours, (17 weeks), (Pass/No Pass),

Change: repeats *effective Fall 2013*
280 Adult Correctional Officer Core, 4 units, 33.6 lecture hours, 8.4 lab hours, (5 weeks), (Pass/No Pass), (Formerly Administration of Justice 74 and 80)

Change: repeats *effective Fall 2013*
281 Advanced Correctional Officer Academy, 1 unit, 25.2 lecture hours, 8.4 lab hours, (1 week), (Pass/No Pass), (Formerly Administration of Justice 75 and 81)

Change: repeats *effective Fall 2013*
285 Probation Core Course, 4 units, 33.6 lecture hours, 8.4 lab hours, (5 weeks), (Pass/No Pass), (Formerly Administration of Justice 75 and 81)

Change: repeats *effective Fall 2013*
286 Juvenile Correctional Officer Core, 3 units, 27.3 lecture hours, 14.7 lab hours, (4 weeks), (Pass/No Pass), (Formerly Administration of Justice 86)

Change: repeats *effective Fall 2013*
290 Firearms Instructors Course, 1 unit, 22 lecture hours, 20 lab hours, (1 week), (Pass/No Pass), (Formerly, Administration of Justice 90)

Change: repeats *effective Fall 2013*
291 Field Training Officer, 1 unit, 33.4 lecture hours, 8.6 lab hours, (1 week), (Pass/No Pass), (Formerly Administration of Justice 91)

Change: repeats *effective Fall 2013*
293 Drug Influence – H&S 11550, 1 unit, 29.4 lecture hours, 4.2 lab hours, (1 week), (Pass/No Pass), (Formerly Administration of Justice 84 and 93)

Change: repeats *effective Fall 2013*
295 Traffic Collision Investigation, 1 unit, 33.6 lecture hours, 8.4 lab hours, (1 week), (Pass/No Pass), (Formerly Administration of Justice 81 and 95)

Change: repeats *effective Fall 2013*
298 Sexual Assault Investigation, 1 unit, 42 lecture hours, (1 week), (Pass/No Pass), (Formerly Administration of Justice 98)

Change: repeats *effective Fall 2013*
299 Basic Bicycle Patrol, 1 unit, 9.6 lecture hours, 24 lab hours, (1 week), (Pass/No Pass), (Formerly Administration of Justice 99)

Aerospace Studies (AEROST)

Change: repeats *effective Fall 2013*
3 Leadership Laboratory, 1 unit, 4 lab hours, (Pass/No Pass)

Change: repeats *effective Fall 2013*
5 Drill and Ceremony Fundamentals, 1 unit, .5 lecture hour, .5 lab hour

African-American Studies (AFRAM)

Change: title, prerequisite **effective Fall 2013**

- 1 Introduction to African American Studies, 3 units, 3 lecture hours, (Formerly Cultural Studies 1)**
Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.
 Introduction to African-American Studies: an interdisciplinary study of African-American history and heritage from Pre Colonial West Africa through the 21st Century. (A, CSU-GE, UC, I)

Change: description **effective Fall 2013**

- 2 Cultural Adaptation of the African-American, 3 units, 3 lecture hours, (Formerly Cultural Studies 20)**
Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.
 Examination and evaluation of the dynamic development of African-American culture from the era of enslavement through the election of the first African-American President of the United States. (A, CSU-GE, UC, I)

Change: title, advisory, description **effective Fall 2013**

- 4 Classical and Pre Colonial Africa, 3 units, 3 lecture hours, (Formerly Cultural Studies 4)**
Advisory: Eligibility for English 1A.
 Classical African society from its earliest origins through the European Colonialization through interdisciplinary study of religion, law, art, science, education, social obligations, and the centrality of the family unit. (A, CSU-GE, UC, I)

Change: title, description **effective Fall 2013**

- 5 The Africans of the New World, 3 units, 3 lecture hours, (Formerly Cultural Studies 5)**
Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.
 History and contributions of African people in North America, South America and the Caribbean. (A, CSU-GE, UC, I)

Change: repeats **effective Fall 2013**

- 8 African-American Creative Workshop, 3 units, 2 lecture hours, 3 lab hours, (Formerly Cultural Studies 8)**

Course deleted **effective Fall 2013**

- 21 Beginning Swahili, 4 units, 3 lecture hours, 2 lab hours, (See also Swahili 1), (Formerly African-American Studies 21A)**

Course deleted **effective Fall 2013**

- 22 High-Beginning Swahili, 4 units, 3 lecture hours, 2 lab hours, (See also Swahili 2)**

Change: title, description **effective Fall 2013**

- 41 African-American Women's Studies, 3 units, 3 lecture hours, (See also Women's Studies 41), (Formerly Cultural Studies 41)**
Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.
 Analyzes the social, political, and cultural history of African American women in US society from an interdisciplinary perspective including the complex ways that ethnicity, class and gender have shaped African American women's lives and the strategies they have used to empower themselves and their communities. (A, CSU, UC)

Course deleted **effective Fall 2013**

- 49 Black Gospel Choir, 2-3 units: 3 units, 2 lecture hours, 4 lab hours; 2 units, 1 lecture hour, 3 lab hours, (Repeats = 3), (Formerly Cultural Studies 9ABCD)**

Air Conditioning (AC)

Change: repeats **effective Fall 2013**

- 19 Work Experience (Cooperative), Occupational, 1-8 units**

Change: advisory **effective Spring 2013**

- 50 Principles of Mechanical Refrigeration, 3 units, 3 lecture hours**
Advisory: Applied Technology 10, eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 or Applied Technology 130 recommended.

Change: advisory **effective Spring 2013**

- 51 Electrical Systems, 7 units, 5 lecture hours, 5 lab hours**
Advisory: Applied Technology 10, eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 or Applied Technology 130 recommended.

Change: advisory**effective Spring 2013****52 Heating Systems, 7 units, 5 lecture hours, 5 lab hours****Advisory:** Air Conditioning 50, 51, 53, Applied Technology 10 and eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 or Applied Technology 130 recommended.**Change: advisory****effective Spring 2013****53 Measurements and Diagnosis, 7 units, 5 lecture hours, 5 lab hours****Advisory:** Air Conditioning 50 or concurrent enrollment, Applied Technology 10 and eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 or Applied Technology 130 recommended.**Change: advisory****effective Spring 2013****54 Commercial Systems, 7 units, 5 lecture hours, 5 lab hours****Advisory:** Air Conditioning 50, 51, Applied Technology 10 and eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 or Applied Technology 130 recommended.**Change: advisory****effective Spring 2013****55 Technician Testing and Certification, 1 unit, 2 lecture hours, (9 weeks)****Advisory:** Air Conditioning 50, 51, 52, 53, 54, 56, and eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 or Applied Technology 130 recommended. Air Conditioning 53, 54 and 56 may be taken concurrently.**Change: advisory****effective Spring 2013****56 Duct Systems, 3 units, 2 lecture hours, 3 lab hours****Advisory:** Air Conditioning 50 or concurrent enrollment, and eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 or Applied Technology 130 recommended.**Change: advisory****effective Spring 2013****57 System Configuration and Control, 2 units, 2 lecture hours****Advisory:** Applied Technology 10, eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 or Applied Technology 130 recommended.**Change: advisory****effective Spring 2013****60A Fundamentals of Refrigeration, 3 units, 3 lecture hours****Advisory:** Applied Technology 10, eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 or Applied Technology 130 recommended.**Change: advisory****effective Spring 2013****250 Digital Unitary Controls, 2 units, 2 lecture hours, 1 lab hour****Advisory:** Applied Technology 10, Air Conditioning 57, eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 or Applied Technology 130 recommended.**Change: advisory****effective Spring 2013****251 Digital VAV Controls, 1 unit, .75 lecture hour, .75 lab hour****Advisory:** Applied Technology 10, Air Conditioning 57, eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 or Applied Technology 130 recommended.**Change: advisory****effective Spring 2013****252 DDC Network Controllers, 2 units, 2 lecture hours, 1 lab hour****Advisory:** Applied Technology 10, Air Conditioning 57, eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 or Applied Technology 130 recommended.**Change: advisory****effective Spring 2013****260B Electricity for Air Conditioning, 3 units, 3 lecture hours, (Formerly Air Conditioning 60B)****Advisory:** Applied Technology 10, eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 or Applied Technology 130 recommended.**Change: advisory****effective Spring 2013****260C Residential Heating, 3 units, 3 lecture hours, (Formerly Air Conditioning 60C)****Advisory:** Air Conditioning 260B, Applied Technology 10, eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 or Applied Technology 130 recommended.**Change: advisory****effective Spring 2013****260D Troubleshooting Procedures, 2 units, 2 lecture hours, 1 lab hour, (Formerly Air Conditioning 60D)****Advisory:** Air Conditioning 60A, 260B, Applied Technology 10, Air Conditioning 57, and eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 or Applied Technology 130 or equivalent recommended.

Change: advisory**effective Spring 2013****353 Principles of Industrial Refrigeration, 3 lecture hours, (Open Entry/Open Exit)**

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 or Applied Technology 130 recommended.

American Indian Studies (AMIND)**Change: description****effective Fall 2013****34 The American Indian in Contemporary Society, 3 units, 3 lecture hours**

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

American Indian in North America after the Second World War to the present; emphasis on current events and legislation; issues involving the inherent sovereignty of American Indian nations and their place in modern global society. (A, CSU-GE, UC, I)

Change: description**effective Fall 2013****35 American Indian Art, 3 units, 3 lecture hours**

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Major American Indian art traditions of North America. Pre-contact and early-contact-era traditions and the evolution of Indian art forms in contemporary times. Design and techniques in Indian art. Emphasis on North, Central and South America. (A, CSU-GE, UC, I)

Anthropology (ANTHRO)**Change: repeats****effective Fall 2013****4L Archaeological Field Methods, 1 unit, 3 lab hours, (Formerly Anthropology 27)****Change: repeats****effective Fall 2013****5 Archaeological Laboratory Methods, 4 units, 3 lecture hours, 3 lab hours****Change: repeats****effective Fall 2013****6 Field Archaeology, 1-3 units, 1-2 lecture hours, 3-9 lab hours****Change: repeats****effective Fall 2013****30 Topics in Anthropology, 1-4 units, 1-3 lecture hours, 0-9 lab hours****Applied Technology (AT)****Change: units, hours, repeats****effective Spring 2013****10 Technical Computer Applications, 3 units, 2 lecture hours, 2 lab hours, (Formerly Industrial Education 23)****Change: advisory****effective Spring 2013****120 Industrial Science, 3 units, 3 lecture hours, 1 lab hour, (Formerly Industrial Education 51)**

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 or Applied Technology 130 recommended.

Change: repeats**effective Fall 2013****212 Computer Skills Lab, 1 unit, 3 lab hours, (Pass/No Pass), (Formerly Industrial Education 50)****Apprenticeship Training (APP)****Change: repeats****effective Fall 2013****19 Work Experience (Cooperative), Occupational, 1-8 units****Change: repeats****effective Fall 2013****260 Apprenticeship – First Aid, .5 unit, 6 lecture hours, 2 lab hours, (1 week), (Formerly Apprenticeship 360)****Architecture (ARCH)****Change: units, hours****effective Fall 2013****14 Digital Tools for Architects, 2 units, 1 lecture hour, 3 lab hours****Change: prerequisite, advisory****effective Fall 2013****22 Architectural Practices II, 3 units, 2 lecture hours, 3 lab hours**

Prerequisite: Architecture 12. **Advisory:** Architecture 24 concurrently recommended.

Change: title, prerequisite, advisory, description**effective Fall 2013****24 Building Information Modeling, 3 units, 2 lecture hours, 2 lab hours****Prerequisite:** None.

Building Information Modeling (BIM) in the context of architectural practice. Generation of architectural plans within a BIM environment to include dimensions, details, basic materials and rendering. (A, CSU)

Change: repeats**effective Fall 2013****31 Building Codes, 3 units, 3 lecture hours, (See also Building Safety and Code Administration 10), (Formerly Architecture 24)****Change: advisory****effective Spring 2013****32 Statics and Strength of Materials, 3 units, 3 lecture hours, (Formerly Architecture 31)****Advisory:** Eligibility for Mathematics 201 recommended.**Change: advisory****effective Fall 2013****32 Statics and Strength of Materials, 3 units, 3 lecture hours, (Formerly Architecture 31)****Advisory:** Completion of Mathematics 201 or equivalent recommended.**Change: title, prerequisite, description****effective Fall 2013****34 Digital Rendering, 3 units, 2 lecture hours, 2 lab hours****Prerequisite:** None.

Generation of architectural renderings to include lighting, reflection, environment and beginning animation. (A, CSU)

Change: advisory**effective Spring 2013****41A Office Practices, 3 units, 3 lecture hours****Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.**Art (ART)****Change: advisory****effective Spring 2013****11 Beginning Sculpture, 3 units, 2 lecture hours, 4 lab hours, (Formerly Art 17A)****Advisory:** Art 4. Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.**Change: repeats****effective Fall 2013****12B Intermediate Craft Workshop: Living Traditions, 3 units, 2 lecture hours, 4 lab hours****Change: repeats****effective Fall 2013****16 Life Painting, 3 units, 2 lecture hours, 4 lab hours****Change: advisory****effective Spring 2013****20 Intermediate Ceramics, 3 units, 2 lecture hours, 4 lab hours, (Repeats = 3), (Formerly 11B)****Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.**Change: repeats****effective Fall 2013****20 Intermediate Ceramics, 3 units, 2 lecture hours, 4 lab hours, (Formerly 11B)****Change: repeats****effective Fall 2013****21 Intermediate Sculpture, 3 units, 2 lecture hours, 4 lab hours, (Formerly 17B)****Change: repeats****effective Fall 2013****22B Craft Workshop: Concepts in Fiber, 3 units, 2 lecture hours, 4 lab hours****Change: repeats****effective Fall 2013****23 Intermediate Watercolor Painting, 3 units, 2 lecture hours, 4 lab hours****Change: repeats****effective Fall 2013****24A Intaglio Printmaking, 3 units, 2 lecture hours, 4 lab hours****Change: repeats****effective Fall 2013****24B Lithograph Printmaking, 3 units, 2 lecture hours, 4 lab hours**

Change: repeats **effective Fall 2013**
 24C Relief Printmaking, 3 units, 2 lecture hours, 4 lab hours

Change: repeats **effective Fall 2013**
 24D Screenprinting, 3 units, 2 lecture hours, 4 lab hours

Change: repeats **effective Fall 2013**
 25 Mural Painting, 3 units, 2 lecture hours, 4 lab hours, Offered 1 semester each academic year

Change: repeats **effective Fall 2013**
 28 Advanced Figure Drawing and Anatomy, 3 units, 2 lecture hours, 4 lab hours

Change: repeats **effective Fall 2013**
 29 Advanced Painting: Oil/Acrylic, 3 units, 2 lecture hours, 4 lab hours

Change: repeats **effective Fall 2013**
 31 Advanced Sculpture, 3 units, 2 lecture, 4 lab hours

Change: repeats **effective Fall 2013**
 32B Intermediate Jewelry and Metalsmithing, 3 units, 2 lecture hours, 4 lab hours

New Course **effective Fall 2013**

36A Intermediate Wheel Throwing, 3 units, 2 lecture hours, 4 lab hours
Prerequisite: Art 10. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.
 Throwing on the potter's wheel and exploration of clay and glaze chemistry. Historic study of the potters wheel as a major tool of self expression. (A, CSU)

New Course **effective Fall 2013**

38A Intermediate Hand-Building, 3 units, 2 lecture hours, 4 lab hours
Prerequisite: Art 10. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.
 Intermediate ceramic hand-building and exploration of clay and glaze chemistry. Historic study of ceramics as a major tool of self expression. (A, CSU)

Change: repeats **effective Fall 2013**
 49 Studio Topics: Art Exhibition and Presentation Practices, 3 units, 2 lecture hours, 4 lab hours, (Formerly Art 9)

Change: repeats **effective Fall 2013**
 251 Open Art Studio, 1 unit, 3 lab hours, (Pass/No Pass), (Formerly Art 51)

Astronomy (ASTRO)

Change: advisory **effective Spring 2013**

10 Basic Astronomy, 3 units, 2 lecture hours, 2 lab hours, (generally evening only)
Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Automotive Collision Repair Technology (ACRT) Formerly Body and Fender

Change: number, advisory, description, transferability **effective Spring 2013**

151 Basic ACR, 9 units, 4 lecture hours, 16 lab hours, (Day Program), (Formerly Automotive Collision Repair Technology 51 and Body-Fender 51/52)

Advisory: Welding Technology 2A and eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 or Applied Technology 130 recommended.

Theory and practice in minor auto body repair. Principles of auto construction and design. Correct use and application of body shop hand tools, power tools and equipment. Diagnosis and repair of minor/major collision damage and body alignment. Emphasis on automotive safety procedures and shop safety. (A)

Change: number, prerequisite, transferability **effective Spring 2013**

153 Advanced ACR, 9 units, 4 lecture hours, 16 lab hours, (Day Program), (Formerly Automotive Collision Repair Technology 53 and Body-Fender 53/54)

Prerequisite: Automotive Collision Repair Technology 151. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 or Applied Technology 130 recommended. (A)

Change: number, repeats, advisory, transferability

effective Spring 2013

155 Spray Refinishing, 2 units, 1 lecture hour, 3 lab hours, (Formerly Automotive Collision Repair Technology 55 and Body-Fender 55)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 or Applied Technology 130 recommended. (A)

Automotive Technology (AUTOT)

Change: repeats

effective Spring 2013

9 Automotive Essentials, 3 units, 3 lecture hours

Change: repeats

effective Fall 2013

19 Work Experience (Cooperative), Occupational, 1-8 units

Change: repeats, advisory

effective Spring 2013

51 Principles of Engine Theory and Service, 3 units, 6 lecture hours, (9 weeks), (See also Automotive Technology GM 51), (Formerly Automotive Mechanics 51)

Corequisite: Automotive Technology 9 and 51L. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory

effective Spring 2013

51L Automotive Engine Laboratory, 2 units, 14 lab hours, (9 weeks), (See also Automotive Technology GM 51L), (Formerly Automotive Mechanics 51L)

Corequisite: Automotive Technology 9 and 51. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory

effective Spring 2013

52 Automotive Electrical Systems, 5 units, 4 lecture hours, 16 lab hours, (9 weeks), (See also Automotive Technology GM 52), (Formerly Automotive Mechanics 52)

Corequisite: Automotive Technology 9. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory

effective Spring 2013

53 Engine Performance, 5 units, 4 lecture hours, 16 lab hours, (9 weeks), (See also Automotive Technology GM 53)

Corequisite: Automotive Technology 9. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory

effective Spring 2013

54 Suspension, Steering, and Wheel Alignment, 5 units, 4 lecture hours, 16 lab hours, (9 weeks), (See also Automotive Technology GM 54), (Formerly Automotive Mechanics 53)

Corequisite: Automotive Technology 9. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory

effective Spring 2013

55 Power Trains: Transmissions/Transaxles, Differentials, and Driveaxles, 6 units, 5 lecture hours, 20 lab hours, (9 weeks), (See also Automotive Technology GM 55), (Formerly Automotive Mechanics 54)

Corequisite: Automotive Technology 9. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory

effective Spring 2013

56 Automotive Braking Systems, 5 units, 4 lecture hours, 16 lab hours, (9 weeks), (See also Automotive Technology GM 56)

Corequisite: Automotive Technology 9. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory

effective Spring 2013

57 Automotive Heating, Ventilation, Air Conditioning, and Advanced Electronics, 5 units, 4 lecture hours, 16 lab hours, (9 weeks), (See also Automotive Technology GM 57), (Formerly Automotive Technology 60)

Prerequisite: Automotive Technology 52 and 53 or equivalent. **Corequisite:** Automotive Technology 9. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory **effective Spring 2013**

58 Individualized Skills Training (IST) Chassis Systems I Laboratory, 1 unit, 8 lab hours, (9 weeks)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory

effective Spring 2013

58A Individualized Skills Training (IST) Chassis Systems II Laboratory, 1 unit, 8 lab hours, (9 weeks)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory

effective Spring 2013

58B Individualized Skills Training (IST) Engine/Propulsion Systems Laboratory, 1 unit, 8 lab hours, (9 weeks)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory

effective Spring 2013

58C Individualized Skills Training (IST) Power Train Systems Laboratory, 1 unit, 8 lab hours, (9 weeks)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: units, weeks, repeats, advisory, description

effective Spring 2013

161A Basic Clean Air Car Course (BCACC), 4 units, 4.5 lecture hours, 4.5 lab hours, (12 weeks), (Formerly Automotive Technology 61, 61A, and 261A)

Prerequisite: Automotive Technology 52 and 53, or 261, or 10 semester units, 13 quarter units, or 180 hours of instruction at a NATEF certified and/or bureau-recognized college or trade school in the areas of electrical and engine performance. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Designed to prepare students for the Bureau of Automotive Repair Smog Check Licensing Exam. Smog check rules and regulations covered in detail. Introduction to Smog Check Program inspection procedures and policies mandated by the Bureau of Automotive Repair. (Note: Basic Area Technician training program certified.) Those who do not meet prerequisites/automotive experience are allowed to take this course but will not be certified as eligible to take the licensing examination. (A)

Change: units, hours, weeks, repeats, advisory

effective Spring 2013

161B Advanced Clean Air Car Course (ACACC), 2 units, 4 lecture hours, 4 lab hours, (6 weeks), (Formerly Automotive Technology 61B and 261B)

Prerequisite: Automotive Technology 161A. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: hours, advisory, description

effective Spring 2013

161C BAR Update Training, 1 unit, 6 lecture hours, 4 lab hours, (2 weeks)

Prerequisite: Automotive Technology 161B. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats

effective Fall 2013

161C BAR Update Training, 1 unit, 6 lecture hours, 4 lab hours, (2 weeks)

Change: units, hours, weeks, repeats, advisory, description

effective Spring 2013

261 Clean Air Car – Diagnosis and Repair, 5 units, 4 lecture hours, 2 lab hours, (Formerly Automotive Technology 61)

Prerequisite: Automotive 52 or 53 or 9 semester units, 13 quarter units, or 180 hours of instruction at a NATEF certified and/or bureau-recognized college or trade school in the areas of electrical and engine performance. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Introduction to Smog Check Program diagnosis and repair procedures; engine theory, engine performance, and electrical systems; automotive computer control system operations; on-vehicle diagnosing and repair mandated by the Bureau of Automotive Repair. (Note: Basic Area Technician training program certified.)

Change: title, repeats, advisory

effective Spring 2013

262A (A6) Electrical/Electronic Training, 1 unit, 6 lecture hours, 2 lab hours, (3 weeks), (Formerly Automotive Technology 62A)

Prerequisite: Automotive Technology 52 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: title, repeats, advisory

effective Spring 2013

262B (A8) Engine Performance Training, 1 unit, 6 lecture hours, 2 lab hours, (3 weeks), (Formerly Automotive Technology 62B)

Prerequisite: Automotive Technology 53 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: title, repeats, advisory **effective Spring 2013**
262C (L1) Advanced Engine Performance Training, 1 unit, 6 lecture hours, 2 lab hours, (4 weeks), (Formerly Automotive Technology 62C)

Prerequisite: Automotive Technology 52 or 53 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory **effective Spring 2013**
281A Automotive Power Trains I, 3 units, 3 lecture hours, (Formerly Automotive Technology 81A)

Prerequisite: Automotive Technology 9 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory **effective Spring 2013**
281B Automotive Power Trains II, 3 units, 3 lecture hours, (Formerly Automotive Technology 81B)

Prerequisite: Automotive Technology 9 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory **effective Spring 2013**
282A Suspension and Wheel Alignment, 3 units, 3 lecture hours, (Formerly Automotive Technology 82A)

Prerequisite: Automotive Technology 9 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory **effective Spring 2013**
282B Automotive Braking Systems, 3 units, 3 lecture hours, (Formerly Automotive Technology 82B)

Prerequisite: Automotive Technology 9 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory **effective Spring 2013**
283A Engine Performance and Diagnosis, 3 units, 3 lecture hours, (Formerly Automotive Technology 83A)

Prerequisite: Automotive Technology 9 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory **effective Spring 2013**
283B Electrical Systems, 3 units, 3 lecture hours, (Formerly Automotive Technology 83B)

Prerequisite: Automotive Technology 9 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory **effective Spring 2013**
284 Automotive Air Conditioning, 3 units, 3 lecture hours, (Formerly Automotive Technology 84)

Prerequisite: Automotive Technology 9 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory **effective Spring 2013**
285 Automotive Engines, 3 units, 3 lecture hours, (Formerly Automotive Technology 85)

Prerequisite: Automotive Technology 9 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory **effective Spring 2013**
286 Automotive Information Systems, 3 units, 3 lecture hours, (Formerly Automotive Technology 86)

Prerequisite: Automotive Technology 9 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats **effective Spring 2013**
287 Street Rod Technology, 4 units, 2 lecture hours, 7 lab hours

Change: repeats, advisory **effective Spring 2013**
292 ASE Certification Preparatory, 2 units, 4 lecture hours, (9 weeks), (Formerly Automotive Technology 92)

Prerequisite: Automotive Technology 9 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory **effective Spring 2013**
294 Lamp and Brake Adjustment/Certification Preparation, 1.5 units, 3 lecture hours, (9 weeks), (Formerly Automotive Technology 94)

Prerequisite: Automotive Technology 9 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Automotive Technology: General Motors ASEP Program (ATGM)

Change: repeats, advisory

effective Spring 2013

51 Principles of Engine Theory and Service, 3 units, 6 lecture hours, (9 weeks), (See also Automotive Technology 51), (Formerly Automotive Technology 51)

Corequisite: Automotive Technology 9 and Automotive Technology GM 51L. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory

effective Spring 2013

51L Automotive Engine Laboratory, 2 units, 14 lab hours, (9 weeks), (See also Automotive Technology 51L), (Formerly Automotive Technology 51L)

Corequisite: Automotive Technology 9 and Automotive Technology GM 51. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory

effective Spring 2013

52 Automotive Electrical Systems, 5 units, 4 lecture hours, 16 lab hours, (9 weeks), (See also Automotive Technology 52), (Formerly Automotive Technology GM 32)

Corequisite: Automotive Technology 9. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory

effective Spring 2013

53 Engine Performance, 5 units, 4 lecture hours, 16 lab hours, (9 weeks), (See also Automotive Technology 53), (Formerly Automotive Technology GM 33)

Corequisite: Automotive Technology 9. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory

effective Spring 2013

54 Suspension, Steering, and Wheel Alignment, 5 units, 4 lecture hours, 16 lab hours, (9 weeks), (See also Automotive Technology 54), (Formerly Automotive Technology GM 31)

Corequisite: Automotive Technology 9. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory

effective Spring 2013

55 Power Trains: Transmissions/Transaxles, Differentials, and Driveaxles, 6 units, 5 lecture hours, 20 lab hours, (9 weeks), (See also Automotive Technology 55), (Formerly Automotive Technology GM 36)

Corequisite: Automotive Technology 9. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory

effective Spring 2013

56 Automotive Braking Systems, 5 units, 4 lecture hours, 16 lab hours, (9 weeks), (See also Automotive Technology 56)

Corequisite: Automotive Technology 9. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, advisory

effective Spring 2013

57 Automotive Heating, Ventilation, Air Conditioning, and Advanced Electronics, 5 units, 4 lecture hours, 16 lab hours, (9 weeks), (See also Automotive Technology 57), (Formerly Automotive Technology GM 34)

Prerequisite: Automotive Technology/Automotive Technology GM 52 and 53 or equivalent. **Corequisite:** Automotive Technology 9. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Biology (BIOL)

Change: advisory

effective Spring 2013

5 Human Biology, 4 units, 3 lecture hours, 2 lab hours

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats

effective Fall 2013

47 Topics in Biology, 1-3 units, 1-3 lecture hours, 0-3 lab hours

Course deleted

effective Spring 2013

261 Internet and Computer Skills Laboratory, .2-1 unit, 3-6 lab hours, (16 weeks), (Pass/No Pass), (Repeats = 3)

Building Safety and Code Administration (BSCA)

Change: repeats, description *effective Fall 2013*

10 Building Codes, 3 units, 3 lecture hours, (See also Architecture 31)

Prerequisite: None.

California building codes and local building zoning ordinances. (A, CSU)

Change: repeats description *effective Fall 2013*

12 Plans Examining, 3 units, 3 lecture hours

Advisory: Building Safety and Code Administration 10 recommended.

California residential codes and local building zoning ordinances for single family housing and light commercial construction. (A, CSU)

Change: repeats *effective Fall 2013*

14 Building Inspection, 3 units, 3 lecture hours

Change: advisory *effective Spring 2013*

15 Plumbing Code and Inspection, 3 units, 2 lecture hours, 4 lab hours, (See also Construction 56)

Advisory: Construction 50A and eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Change: repeats *effective Fall 2013*

15 Plumbing Code and Inspection, 3 units, 2 lecture hours, 4 lab hours, (See also Construction 56)

Change: repeats *effective Fall 2013*

16 Mechanical Code and Inspection, 3 units, 3 lecture hours

Change: repeats *effective Fall 2013*

17 National Electrical Code Part 1, 3 units, 3 lecture hours, (See also Electrical Systems Technology 96A)

Change: repeats *effective Fall 2013*

18 California Disabled Access Regulations, 3 units, 3 lecture hours

Change: repeats, prerequisite, advisory, description *effective Fall 2013*

20 Advanced Building Code, 3 units, 3 lecture hours

Prerequisite: Building Safety and Code Administration 10.

California building codes and local building zoning ordinances for light commercial buildings and industrial buildings. (A, CSU)

Change: repeats, prerequisite, corequisite, advisory, description *effective Fall 2013*

22 Advanced Plans Examining, 3 units, 3 lecture hours

Prerequisite: Building Safety and Code Administration 12.

The application of uniform building codes, zoning ordinances, energy conservation and state accessibility requirements to commercial construction. To prepare for I.C.B.O. certification. (A, CSU)

Change: repeats *effective Fall 2013*

24 Advanced Building Inspection, 3 units, 3 lecture hours

Change: repeats *effective Fall 2013*

27 National Electrical Code Part 2, 3 units, 3 lecture hours, (See also Electrical Systems Technology 96B)

Change: repeats *effective Fall 2013*

37 National Electrical Code Part 3, 3 units, 3 lecture hours, (See also Electrical Systems Technology 96C)

Change: repeats *effective Fall 2013*

47 National Electrical Code – Electrical Safety, 3 units, 3 lecture hours, (See also Electrical Systems Technology 96D)

Business Administration (BA)

Change: advisory *effective Spring 2013*

11 Introduction to Hospitality Management, 3 units, 3 lecture hours

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.

- Change: advisory** **effective Spring 2013**
13 Managing Quality Organization – An Introduction, 3 units, 3 lecture hours
Advisory: Business Administration 10 and eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.
- Change: repeats** **effective Fall 2013**
19 Work Experience (Cooperative), Occupational, 1-8 units
- Change: repeats** **effective Fall 2013**
27 Collegiate Entrepreneurs Organizations (CEO)/Students in Free Enterprise (SIFE), 1-3 units: 1 unit, 1 lecture hour, 1 lab hour; 2 units, 1 lecture hour, 3 lab hours; 3 units, 1 lecture hour, 6 lab hours
- Change: advisory** **effective Spring 2013**
30 Personal Finance, 4 units, 4 lecture hours
Advisory: Business Administration 10 and eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.
- Change: advisory** **effective Spring 2013**
34 Fundamentals of Investing, 3 units, 3 lecture hours
Advisory: Business Administration 10 and eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.
- Change: advisory** **effective Spring 2013**
35 Financial Management for Entrepreneurs and Small Business, 3 units, 3 lecture hours
Advisory: Business Administration 10 and eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.
- Change: advisory** **effective Spring 2013**
37 Franchising, 3 units, 3 lecture hours
Advisory: Business Administration 51, 18, Mathematics 201 and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.
- Change: advisory** **effective Spring 2013**
38 Operation of the Small Business, 3 units, 3 lecture hours
Advisory: Business Administration 10 and eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.
- Change: advisory** **effective Spring 2013**
48 E-Business, 3 units, 3 lecture hours, (Formerly eCommerce 1)
Advisory: Computer Information Technology 12 or 15; eligibility for English 125 and 126 or English as a Second Language 67 and 68; and Mathematics 201 recommended.
- Change: units, hours** **effective Fall 2013**
50 Business Concepts, 2 units, 2 lecture hours, (Formerly Business Administration 9)
- Change: repeats** **effective Fall 2013**
51 Business Planning and New Venture Launch, 1.5 units, 1.5 lecture hours
- Change: advisory** **effective Spring 2013**
52 Introduction to Entrepreneurship, 3 units, 3 lecture hours
Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.
- Change: advisory** **effective Spring 2013**
55 Introduction to Logistics, 3 units, 3 lecture hours
Advisory: Business Administration 10 and eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.
- Change: advisory** **effective Spring 2013**
56 Inventory Control Management, 3 units, 3 lecture hours
Advisory: Business Administration 10 and eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.

Business & Technology (BT)

Change: advisory *effective Spring 2013*

- 4 **Ten-Key Calculation, 2 units, 2 lecture hours, 1 lab hour, (Formerly Business General Office 8)**
Advisory: Eligibility for Mathematics 201 recommended.

Course deleted *effective Fall 2013*

- 7 **WordPerfect I, 2 units, 3 lecture hours, 2 lab hours, (9 weeks), (Repeats = 3), (Formerly Business Information Processing 7 and Business & Technology 7 and 107)**

Course deleted *effective Fall 2013*

- 8 **WordPerfect II, 2 units, 3 lecture hours, 2 lab hours, (9 weeks), (Repeats = 3), (Formerly Business Information Processing 8 and Business & Technology 8 and 108)**

Change: advisory *effective Spring 2013*

- 9 **Computer Applications I, 4 units, 3 lecture hours, 3 lab hours, (Formerly Business Information Processing 9)**
Advisory: Business & Technology 1 or equivalent. Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.

Change: repeats *effective Fall 2013*

- 14 **Windows, 2 units, 3 lecture hours, 2 lab hours, (9 weeks), (Formerly Business Information Processing 14)**

Change: advisory *effective Spring 2013*

- 18 **Spreadsheet Fundamentals, 2 units, 3 lecture hours, 1 lab hour, (9 weeks), (See also Computer Information Technology 23), (Formerly Business Information Processing 18)**
Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats *effective Fall 2013*

- 19 **Work Experience (Cooperative), Occupational, 1-8 units, (Formerly Secretarial Science 19 and Business General Office 19)**

Change: advisory *effective Spring 2013*

- 24 **Beginning Excel, 1 unit, 1 lecture hour, 2 lab hours, (9 weeks), (See also Computer Information Technology 31), (Formerly Business Information Processing 24)**
Advisory: Business & Technology 1 or equivalent. Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.

Change: title, units, hours, weeks, repeats, description *effective Spring 2013*

- 27 **Microsoft Outlook and E-Mail, 2 units, 2 lecture hours, 1 lab hour**
Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.
 Using the Microsoft Outlook computer program to manage e-mail, appointments, contacts, and tasks; and to make notes and journal entries. Create effective e-mail messages for professional settings. (A, CSU)

Change: title, advisory, description *effective Spring 2013*

- 140 **Legal Document Processing, 3 units, 2 lecture hours, 2 lab hours, (See also Paralegal 156), (Formerly BSS 57A and Business General Office 56 and Business & Technology 40)**
Advisory: Business & Technology 1 or Business & Technology 28 or basic knowledge of a word processing program. Ability to type at least 25 gross words per minute is recommended. Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.
 Producing and formatting business and legal correspondence and documents using a current word processing program. (A)

Change: repeats *effective Fall 2013*

- 250 **Office Skills Lab, 1 unit, 3 lab hours, (16 weeks), (Pass/No Pass), (Open Entry/Open Exit), (Formerly Business General Office 3 and Business & Technology 50)**

Change: repeats *effective Fall 2013*

- 251 **Office Application Skill Lab, 0.2-1 unit, 0.6-3 lab hours, (16 weeks), (Pass/No Pass), (Open Entry/Open Exit)**

Change: repeats *effective Fall 2013*

- 274 **Introduction to Microsoft Outlook, 1 unit, 1 lecture hour, (Formerly Business & Technology 74)**

Chemistry (CHEM)

Change: prerequisite, C-ID designation

effective Spring 2013

1A General Chemistry, 5 units, 3 lecture hours, 6 lab hours

Prerequisite: High school chemistry with laboratory component, or Chemistry 101P, or Chemistry 3A or equivalent, and Mathematics 103 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

(C-ID CHEM 110 and CHEM 120S = CHEM 1A + CHEM 1B)

Change: C-ID designation

1B General Chemistry and Qualitative Analysis, 5 units, 3 lecture hours, 6 lab hours

(CHEM 120S = CHEM 1A + CHEM 1B)

New Course

effective Fall 2013

18L Elementary Organic Chemistry Lab, 2 units, 6 lab hours

Prerequisite: Chemistry 1B. **Corequisite:** Chemistry 8A.

The course will focus on techniques appropriate to an industrial setting. Experiments will cover simple organic reactions and techniques used to prepare and process samples. Topics include preparation of solutions, solution properties, filtration, extraction, distillation, determination of physical properties, recrystallization, chromatography, and spectroscopy. (A, CSU)

New Course

effective Fall 2013

20 Practical Quantitative Analysis, 5 units, 2 lecture hours, 9 lab hours

Prerequisite: Chemistry 18L.

The theory and practice of gravimetric and volumetric analysis, electrochemistry and instrumental methods. The analysis of unknown samples by both classical and instrumental techniques with emphasis on practical applications used in real lab settings. (A, CSU)

New Course

effective Fall 2013

100I Chemical Laboratory Internship, 2-6 units, 6-18 lab hours

Prerequisite: Chemistry 1B. **Corequisite:** Chemistry 18L

Supervised experience or employment in an approved chemical laboratory. (A)

Change: hours

effective Fall 2013

101P Preparation for General Chemistry, 3 units, 2 lecture hours, 2 lab hours

Chicano-Latino Studies (CLS)

Change: description

effective Fall 2013

11 Introduction to Chicano-Latino Studies, 3 units, 3 lecture hours, (Formerly Cultural Studies 11)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

The Chicano-Mexican American community, culture, and heritage in American society. An interdisciplinary approach to the study of society and culture, social and cultural change, and social and cultural conflict. Examines the roots of Chicano-Mexicano culture and heritage from the pre-Columbian indigenous civilizations to the present. (A, CSU-GE, UC, I)

Change: description

effective Fall 2013

12 Mexican American History, 3 units, 3 lecture hours, (Formerly Cultural Studies 12)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

A survey of Mexican American and Latino history from the indigenous civilizations of Mesoamerica to the present, with a focus on the history of Mexicans in the United States. History and heritage of the Chicano-Latino community. (A, CSU-GE, UC, I)

Change: description

effective Fall 2013

14 Sociology of the Mexican American Community, 3 units, 3 lecture hours, (See also Sociology 14), (Formerly Cultural Studies 14)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Sociological examination of the Chicano and Latino in American society: family, religion, education, social class, gender, and political and social institutions. Emphasis on social problems, social issues, and social change. (A, CSU, UC)

Change: title, repeats, description

effective Fall 2013

17 Beginning Mexican Folk Dance, 4 units, 3 lecture hours, 2 lab hours, (See also Dance 17), (Formerly Cultural Studies 17)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

History and origin of Mexican dance, from the pre-Columbian era through the arrival of the Spaniards. Analysis of the form, function, and symbolism of the music, musical instruments, movements, and choreography. Examination of the role of women in this art form. Dances practiced and performed at the beginning level. (A, CSU-GE, UC)

Change: repeats *effective Fall 2013*
18 Latin Jazz Ensemble, 2 units, 1 lecture hour, 3 lab hours, (Formerly Cultural Studies 18), (See also Music 48)

Change: title, repeats, description *effective Fall 2013*
27 Advanced Mexican Folk Dance, 4 units, 3 lecture hours, 2 lab hours, (See also Dance 27)

Prerequisite: Chicano-Latino Studies/Dance 17, or demonstration of comparable skill level to be determined by testing at first class session. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

History of the origin of Mexican dance, from the arrival of the Spaniards to the present. Analysis of the form, function, and symbolism of the music, musical instruments, movements and choreographies. Dances practiced and performed at the advanced level. (A, CSU-GE, UC)

Child Development (CHDEV)

Change: C-ID designation

1 Principles and Practices of Teaching Young Children, 3 units, 3 lecture hours
 (C-ID ECE 120)

Change: C-ID designation

3 Introduction to Curriculum, 3 units, 3 lecture hours
 (C-ID ECE 130)

Change: C-ID designation

6 Health, Safety and Nutrition in Early Childhood Education, 3 units, 3 lecture hours
 (C-ID ECE 220)

Change: C-ID designation

15 Diversity and Culture in Early Care and Education Programs, 3 units, 3 lecture hours
 (C-ID ECE 230)

Change: prerequisite

17A Infant Development – Birth to Age Three, 3 units, 2 lecture hours, 3 lab hours, (Formerly Child Development 7 and 3B) *effective Fall 2013*

Prerequisite: Child Development 1, 6, and 39. Verification of freedom from tuberculosis.

Change: repeats

19 Work Experience (Cooperative), Occupational, 1-8 units *effective Fall 2013*

Change: C-ID designation

20 Observation and Assessment, 3 units, 3 lecture hours
 (C-ID ECE 200)

Change: C-ID designation

30 Child, Family, and Community, 3 units, 3 lecture hours
 (C-ID CHEV 110)

Change: C-ID designation

37A Early Childhood Practicum, 2 units, 2 lecture hours, 3 lab hours
 (C-ID ECE 210)

Change: C-ID designation

39 Child Growth and Development, 3 units, 3 lecture hours, 1 lab hour, (See also Psychology 39)
 (C-ID CDEV 100)

Change: units, hours, prerequisite

45 Supervision of Adults in Early Childhood Education Classrooms, 3 units, 3 lecture hours *effective Fall 2013*
Prerequisite: Child Development 37A. Current employment in a supervisory capacity in an early care and education setting.

Change: repeats

165A Topics in Child Development: Curriculum, 1-3 units, 1-3 lecture hours, (Formerly Child Development 65A) *effective Fall 2013*

Change: repeats *effective Fall 2013*
 165B Topics in Child Development: Family and Community, 1-3 units, 1-3 lecture hours, (Formerly Child Development 65B)

Change: repeats *effective Fall 2013*
 165C Topics in Child Development: Program Administration, 1-3 units, 1-3 lecture hours, (Formerly Child Development 65C)

Communication (COMM)

Change: C-ID designation

1 Introduction to Public Speaking, 3 units, 3 lecture hours, (Formerly Speech 1)
 (C-ID COMM 110)

Change: C-ID designation

2 Interpersonal Communication, 3 units, 3 lecture hours, (Formerly Speech 2)
 (C-ID COMM 130)

Change: C-ID designation

8 Group Communication, 3 units, 3 lecture hours, (Formerly Speech 8)
 (C-ID COMM 140)

Change: units, repeats

20 Community Involvement, 2-3 units, 1 lecture hour, 3-6 lab hours, (Formerly Speech 20)

effective Fall 2013

Change: C-ID designation

25 Argumentation, 3 units, 3 lecture hours, (Formerly Speech 25)
 (C-ID COMM 120)

Change: C-ID designation

26 Intercollegiate Forensics Laboratory, 1-3 units, 1 unit, 1 lecture hour, 1 lab hour; 2 units, 1 lecture hour, 3 lab hours; 3 units, 1 lecture hour, 6 lab hours, (Repeats = 3), (Formerly Speech 26)
 (C-ID COMM 160B)

Computer Aided Drafting and Design (CADD)

Change: repeats, advisory

14 2D CAD I, 3 units, 2 lecture hours, 3 lab hours, (Formerly Drafting 42 and 32)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 or Applied Technology 130 recommended.

effective Spring 2013

Change: advisory

14 2D CAD I, 3 units, 2 lecture hours, 3 lab hours, (Formerly Drafting 42 and 32)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 255 recommended.

effective Fall 2013

Change: repeats, advisory

16 3D Solid Modeling I, 3 units, 2 lecture hours, 3 lab hours, (Formerly Drafting 20 and Computer Aided Drafting and Design 26 and 34)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 or Applied Technology 130 recommended.

effective Spring 2013

Change: advisory

16 3D Solid Modeling I, 3 units, 2 lecture hours, 3 lab hours, (Formerly Drafting 20 and Computer Aided Drafting and Design 26 and 34)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 255 recommended.

effective Fall 2013

Change: repeats

22 Mechanical Drawing I, 3 units, 2 lecture hours, 3 lab hours

effective Spring 2013

Change: prerequisite, description

22 Mechanical Drawing I, 3 units, 2 lecture hours, 3 lab hours
Prerequisite: Computer Aided Drafting and Design 16.

effective Fall 2013

Solid modeling practices for sheet metal, fasteners and welding drawings. Use of precision measuring tools and tolerances will also be covered. (A, CSU)

Change: repeats **effective Spring 2013**

24 2D CAD II, 3 units, 2 lecture hours, 3 lab hours

Change: repeats **effective Spring 2013**

26A 3D Solid Modeling II, 3 units, 2 lecture hours, 3 lab hours

Change: repeats **effective Spring 2013**

28 Rapid Prototyping I, 3 units, 2 lecture hours, 3 lab hours

Change: title, description **effective Fall 2013**

28 Product Development I, 3 units, 2 lecture hours, 3 lab hours

Prerequisite: Computer Aided Drafting and Design 16.

Create realistic rapid prototypes/models from digital solid models using processes such as 3D printing, silicone molds, casting resins, vacuum forming, laser cutting and engraving and the application of finishes. (A, CSU)

Change: repeats **effective Spring 2013**

32 Mechanical Drawing II, 3 units, 2 lecture hours, 3 lab hours, (Formerly Drafting 22 and Computer Aided Drafting and Design 24)

Change: title, prerequisite, description **effective Fall 2013**

32 Reverse Engineering I, 3 units, 2 lecture hours, 3 lab hours, (Formerly Drafting 22 and Computer Aided Drafting and Design 24)

Prerequisite: Computer Aided Drafting and Design 16.

Reverse engineering practices using specialized software and various scanners including laser. Traditional methods will also be covered. (A, CSU)

Change: repeats **effective Spring 2013**

36A 3D Solid Modeling III, 3 units, 2 lecture hours, 3 lab hours

Change: prerequisite, description **effective Fall 2013**

36A 3D Solid Modeling III, 3 units, 2 lecture hours, 3 lab hours

Prerequisite: Computer Aided Drafting and Design 16.

Create renderings and animations of solid models and assemblies. The application of advanced modeling features to existing solid models. Create solid models using various surface modeling techniques. Run simulations on solid models to determine the factor of safety. (A, CSU)

Change: repeats **effective Spring 2013**

40 Civil Drafting Applications, 3 units, 2 lecture hours, 3 lab hours

Course deleted **effective Fall 2013**

40 Civil Drafting Applications, 3 units, 2 lecture hours, 3 lab hours

Change: repeats **effective Spring 2013**

42 Mechanical Drawing III, 3 units, 2 lecture hours, 3 lab hours

Change: prerequisite, description **effective Fall 2013**

42 Mechanical Drawing III, 3 units, 2 lecture hours, 3 lab hours

Prerequisite: Computer Aided Drafting and Design 28 and 36A.

Project design using various CAD systems. Digital and hard bound portfolio creation including presentation models. (A, CSU)

Computer Aided Manufacturing (CAM)

Change: advisory **effective Spring 2013**

1A CAM & Cabinetry Operation I, 13 units, 10 lecture hours, 10 lab hours, (Repeats = 3)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Course deleted **effective Fall 2013**

1A CAM & Cabinetry Operation I, 13 units, 10 lecture hours, 10 lab hours, (Repeats = 3)

Course deleted **effective Fall 2013**

1B Mill and Lathe Operation II, 13 units, 10 lecture hours, 10 lab hours, (Repeats = 3)

Change: advisory**effective Spring 2013**

10 CNC Mill Programming & Operation I, 7 units, 5 lecture hours, 5 lab hours, (Repeats = 3), (Formerly Drafting and Computer Aided Drafting and Design 44)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, description**effective Fall 2013**

10 CNC Mill Programming & Operation I, 7 units, 5 lecture hours, 5 lab hours, (Formerly Drafting and Computer Aided Drafting and Design 44)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

An entry-level class that gives the students access to industrial tools and technologies found in industry. (A, CSU)

New Course**effective Fall 2013**

15 Computer Aided Machining for CAD Users, 3 units, 2 lecture hours, 3 lab hours

Prerequisite: Computer Aided Drafting and Design 14 and 16, and Computer Aided Manufacturing 10.

Designed for students who have CAD (Computer Aided Design) experience and are interested in CAM (Computer Aided Machining) CAD/CAM. Introduction to MasterCAM's programming software package for Numerical Control (NC) part programming. Topics include: CNC concepts, machine axis, tooling, programming formats, manufacturing process, Computer Aided Manufacturing (CAM), NC mill programming, NC lathe programming, program editing, speeds, feeds, and machine shop safety. (A, CSU)

Change: repeats, description**effective Fall 2013**

20 CNC Mill Programming & Operation II, 7 units, 5 lecture hours, 5 lab hours

Prerequisite: Computer Aided Manufacturing 10.

Continuation of CAM 10. Design parts in 3D solid and 3D surfacing for mill and lathe machine tool programming. Instruction on operation and set-up of CNC HAAS mill/lathe, Akira Seiki mill/lathe machines and shop safety. (A, CSU)

New Course**effective Fall 2013**

25 CNC Operation and Setup for CAD Users, 3 units, 2 lecture hours, 3 lab hours

Prerequisite: Computer Aided Manufacturing 15.

Continuation of Computer Aided Manufacturing 15. Instruction in operation and set-up of CNC HAAS mill/lathe, Akira Seiki mill/lathe machines and shop safety. (A,CSU)

New Course**effective Fall 2013**

26 Lathe Programming and Operation II, 3 units, 2 lecture hours, 3 lab hours.

Prerequisite: Computer Aided Manufacturing 10.

An intermediate level to the operation and set up of a CNC HAAS lathe and Akira Seiki OT FANUC lathe. Lathe geometry programming with the latest MasterCAM software. (A, CSU)

Computer Information Technology (CIT)**Change: advisory****effective Spring 2013**

15 Computer Concepts, 3 units, 3 lecture hours, 1 lab hour, (Formerly Computer Information Systems 15 and Information Systems 15)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats**effective Fall 2013**

17 Windows Vista Basics, 2 units, 3 lecture hours, 1 lab hour, (9 weeks), (Formerly Computer Information Systems 14 and Information Systems 14)

Change: repeats**effective Fall 2013**

19 Work Experience (Cooperative), Occupational, 1-8 units, (Formerly Information Systems 19)

Change: advisory**effective Spring 2013**

23 Spreadsheet Fundamentals, 2 units, 3 lecture hours, 1 lab hour, (9 weeks), (See also Business & Technology 18), (Formerly Information Systems 5 and 18)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: advisory **effective Spring 2013**
31 Beginning Excel, 1 unit, 1 lecture hour, 2 lab hours, (9 weeks), (See also Business & Technology 24), (Formerly Information Systems 24 and 74)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.

Change: repeats **effective Fall 2013**
40 Computer Operating Systems, 4 units, 3 lecture hours, 2 lab hours, (Formerly Information Systems 22)

Change: repeats **effective Fall 2013**
45 Data Communications, 3 units, 3 lecture hours, 1 lab hour, (Formerly Computer Information Systems and Information Systems 17)

Change: repeats **effective Fall 2013**
46 Network+ Preparation, 2 units, 3 lecture hours, 1 lab hour, (9 weeks), (Formerly Information Systems 231 and 237)

Change: repeats **effective Fall 2013**
48 A+ and Server+ Systems Fundamentals, 3 units, 3 lecture hours, (Formerly Information Systems 238 and Computer Information Technology 238)

Change: repeats **effective Fall 2013**
49 INET+ Preparation, 3 units, 3 lecture hours, 1 lab hour, (Formerly Information Systems 239 and Computer Information Technology 239)

Change: repeats **effective Fall 2013**
50 Fundamentals of Networking, 4 units, 4 lecture hours, 1 lab hour, (Formerly Information Systems 28, 30, 30A)

Change: repeats **effective Fall 2013**
51 MCSE Network Infrastructure, 4 units, 4 lecture hours, 1 lab hour, (Formerly Information Systems 30B)

Change: repeats **effective Fall 2013**
52 MCSE Directory Services, 4 units, 4 lecture hours, 1 lab hour, (Formerly Information Systems 30C)

Change: repeats **effective Fall 2013**
53 MCSE Directory Infrastructure, 2 units, 4 lecture hours, 1 lab hour, (9 weeks), (Formerly Information Systems 30D)

Change: repeats **effective Fall 2013**
54 MCSE Network Services, 2 units, 4 lecture hours, 1 lab hour, (9 weeks), (Formerly Information Systems 30E)

Change: repeats **effective Fall 2013**
55 MCSE Network Security, 4 units, 4 lecture hours, 1 lab hour, (Formerly Information Systems 30F)

Change: repeats **effective Fall 2013**
56 MCSE ISA, 4 units, 4 lecture hours, 1 lab hour, (Formerly Information Systems 30G)

Change: repeats **effective Fall 2013**
68 Advanced Programming Applications, 4 units, 3.5 lecture hours, 1 lab hour

New Course **effective Fall 2013**
69 iOS Programming Applications, 4 units, 3.5 lecture hours, 1 lab hour.

Prerequisite: Computer Information Technology 63 or 66.

An introduction to software development for the iOS (Apple) platform. Create iOS applications that can run on the iPhone, iPod Touch or the iPad. Explore user interface (UI) considerations for Apple devices. Use Objective-C, Cocoa Framework and Xcode to write object-oriented programs emphasizing the use of classes, abstraction and inheritance, controller and delegate patterns, and core objects used in the iOS software development kit. (A, CSU)

Change: repeats **effective Fall 2013**
260 Computer Skills Lab, 1 unit, 3 lab hours, (16 weeks), (Pass/No Pass), (Open Entry/Open Exit), (Formerly Computer Information Systems 60, Information Systems 60, and Information Systems 260)

Change: repeats **effective Fall 2013**
261 Internet Skills Lab, .2-1 unit, .6-3 lab hours, (16 weeks), (Pass/No Pass), (Open Entry/Open Exit), (Formerly Information Systems 61 and 261)

Computer Science (CSCI)

Course deleted *effective Fall 2013*
 20 Programming in the Fortran Language, 3 units, 2 lecture hours, 2 lab hours, (Formerly Computer Science 16)

Change: C-ID designation
 26 Discrete Mathematics for Computer Science, 4 units, 3 lecture hours, 2 lab hours
 (C-ID COMP 152)

Course deleted *effective Fall 2013*
 30 Programming in the Pascal Language, 3 units, 2 lecture hours, 2 lab hours

Change: advisory *effective Fall 2013*
 40 Programming Concepts and Methodology I, 4 units, 3 lecture hours, 2 lab hours, (Formerly Mathematics 30A and Computer Science 30A).

Prerequisite: Mathematics 103 or equivalent. **Corequisite:** Mathematics 4A or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Change: advisory *effective Fall 2013*
 40J Programming Concepts and Methodology in Java, 4 units, 3 lecture hours, 2 lab hours
Prerequisite: Mathematics 103 or equivalent. **Corequisite:** Mathematics 4A or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Course deleted *effective Fall 2013*
 261 Internet and Computer Skills Laboratory, .2-1 unit, .6-3 lab hours, (16 weeks), (Pass/No Pass), (Repeats = 3)

Construction – Carpentry (CONS)

Change: repeats *effective Fall 2013*
 19 Work Experience (Cooperative), Occupational, 1-8 units

Change: repeats, advisory *effective Spring 2013*
 50A Basic Residential Construction, 3 units, 2 lecture hours, 3 lab hours, (Formerly Construction 50)
Advisory: Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Change: repeats, advisory *effective Spring 2013*
 50B Basic Residential Construction, 3 units, 2 lecture hours, 3 lab hours
Advisory: Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Change: repeats, advisory, description *effective Spring 2013*
 51 Residential Construction: Foundations and Framing, 9 units, 4 lecture hours, 16 lab hours, (Formerly Construction 51/52)

Advisory: Construction 50A and eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Hands-on construction of a residential house including construction of foundation forms, installation of rough plumbing, placement and finishing of concrete, lay out and construction of wall framing, placement of roof trusses and construction of associated roof framing, and the application of roofing material. Not open to students with credit in CONS 51A and 51B. (A, CSU)

Change: repeats, advisory *effective Spring 2013*
 51A Residential Construction: Foundations, 5 units, 2 lecture hours, 8 lab hours, (Formerly Construction 51)
Advisory: Construction 50A and eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Change: repeats, advisory *effective Spring 2013*
 51B Residential Construction: Framing, 5 units, 2 lecture hours, 8 lab hours, (Formerly Construction 52)
Advisory: Construction 50A and eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Change: advisory *effective Spring 2013*
 52A Introductory Construction Management 1, 9 units, 4 lecture hours, 16 lab hours
Advisory: Construction 51 and 53 and eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Change: advisory**effective Spring 2013****52B Introductory Construction Management 2, 9 units, 4 lecture hours, 16 lab hours**

Advisory: Construction 51 and 53 and eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Change: repeats, advisory, description**effective Spring 2013****53 Residential Construction: Exterior and Interior Finish, 9 units, 4 lecture hours, 16 lab hours, (Formerly Construction 53/54)**

Advisory: Construction 50B and eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Hands on construction of a residential house, including window and door installation, stucco lathing, siding installation, drywall hanging and finishing, cabinet and hardware installation, finish carpentry, interior and exterior painting, fencing, and concrete flat work including driveways and walks. Not open to students with credit in CONS 53A and 53B. (A, CSU)

Change: repeats, advisory**effective Spring 2013****53A Residential Construction: Exterior Finish, 5 units, 2 lecture hours, 8 lab hours, (Formerly Construction 53)**

Advisory: Construction 50B and eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Change: repeats, advisory**effective Spring 2013****53B Residential Construction: Interior Finish, 5 units, 2 lecture hours, 8 lab hours, (Formerly Construction 54)**

Advisory: Construction 50B and eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Change: repeats, advisory**effective Spring 2013****55 Roof Framing Systems, 3 units, 1 lecture hour, 5 lab hours**

Advisory: Construction 50A and eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Change: repeats, advisory**effective Spring 2013****56 Residential Plumbing, 3 units, 2 lecture hours, 4 lab hours, (See also Building Safety and Code Administration 15)**

Advisory: Construction 50A and eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Change: repeats**effective Spring 2013****57 Construction Surveying, 2 units, 1 lecture hour, 3 lab hours, (Formerly Building Technology 4)****Change: repeats, advisory****effective Spring 2013****175 Residential Wiring, 4 units, 3 lecture hours, 4 lab hours, (See also Electrical Systems Technology 175), (Formerly Construction 75)**

Advisory: Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Change: repeats**effective Spring 2013****196 Building Construction Inspection, 3 units, 3 lecture hours, (Formerly Building Technology 96A-96B and Construction 96)****Course deleted****effective Fall 2013****196 Building Construction Inspection, 3 units, 3 lecture hours, (Formerly Building Technology 96A-96B and Construction 96)****Counseling (COUN)****Change: advisory****effective Spring 2013****167 Financial Aid Money Management, 1 unit, 1 lecture hour, (Formerly Guidance Studies 167)**

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.

Criminology (CRIM)**Change: C-ID designation****1 Introduction to Criminology, 3 units, 3 lecture hours, (Formerly Administration of Justice 1) (C-ID AJ 110)**

Change: C-ID designation

- 3 Legal Aspects of Evidence, 3 units, 3 lecture hours, (Formerly Administration of Justice 3)
(C-ID AJ 124)

Change: C-ID designation

- 5 Community Relations, 3 units, 3 lecture hours, (Formerly Administration of Justice 5)
(C-ID AJ 160)

Change: C-ID designation

- 11 Juvenile Delinquency, 3 units, 3 lecture hours, (Formerly Administration of Justice 11)
(C-ID AJ 220)

Change: repeats

- 19 Work Experience (Cooperative), Occupational, 1-8 units

*effective Fall 2013***Change: C-ID designation**

- 20 Introduction to Corrections, 3 units, 3 lecture hours
(C-ID AJ 200)

Dance (DANCE)**Change: repeats**

- 9 Dance Conditioning, 1 unit, 3 lab hours

*effective Fall 2013***Change: repeats**

- 10 Beginning Modern Dance Technique, 1 unit, 3 lab hours

*effective Fall 2013***Change: repeats**

- 11 Introduction to Social Dance, 1 unit, 3 lab hours

*effective Fall 2013***Change: repeats**

- 12A Beginning Ballet Part 1, 1 unit, 3 lab hours, (Formerly Dance 12 and Physical Education 26)

*effective Fall 2013***Change: repeats**

- 12B Beginning Ballet Part 2, 1 unit, 3 lab hours

*effective Fall 2013***Course deleted**

- 13 Intermediate Ballet, 1 unit, 3 lab hours, (Repeats = 3)

*effective Fall 2013***New Course**

- 13A Intermediate Ballet Technique, 2 units, 1 lecture hour, 2 lab hours

effective Fall 2013

Prerequisite: Dance 12B or relevant experience as determined by instructor.

Intermediate level Ballet technique using barre exercises and center works, may include a demonstration of creating and teaching a ballet phrase in the class. (A, CSU)

New Course

- 13B Pre-Advanced Ballet Technique, 2 units, 1 lecture hour, 2 lab hours

effective Fall 2013

Prerequisite: Dance 13A or relevant experience as determined by instructor.

Pre-advanced Ballet technique using barre exercises and center works, may include a demonstration of creating and teaching a ballet phrase and a short combination in the class. (A, CSU)

Change: repeats

- 14 Beginning Jazz Dance Technique, 1 unit, 3 lab hours, (Formerly Physical Education 27)

*effective Fall 2013***Change: repeats**

- 15 Intermediate Jazz Dance Technique, 1 unit, 3 lab hours

*effective Fall 2013***Change: repeats**

- 16 Beginning Tap Dance, 1 unit, 2 lab hours

*effective Fall 2013***Change: title, repeats, description**

- 17 Beginning Mexican Folk Dance, 4 units, 3 lecture hours, 2 lab hours, (See also Chicano-Latino Studies 17)

effective Fall 2013

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

History and origin of Mexican dance, from the pre-Columbian era through the arrival of the Spaniards. Analysis of the form, function, and symbolism of the music, musical instruments, movements, and choreography. Examination of the role of women in this art form. Dances practiced and performed at the beginning level. (A, CSU-GE, UC)

Change: repeats *effective Fall 2013*
 18 Intermediate Tap Dance, 1 unit, 2 lab hours

Change: repeats *effective Fall 2013*
 21 Dance Workshop Performance, 2-4 unit, 1 lecture hour, 3-9 lab hours per unit, (Formerly Physical Education 21)

Change: repeats *effective Fall 2013*
 22 Dance Theatre Performance, 2-4 units: 2 units, 1 lecture hour, 3 lab hours; 3 units, 1 lecture hour, 6 lab hours; 4 units, 1 lecture hour, 9 lab hours, (Formerly Physical Education 22)

Change: repeats *effective Fall 2013*
 25 Intermediate Social Dance, 1 unit, 3 lab hours

Change: title, repeats, description *effective Fall 2013*
 27 Advanced Mexican Folk Dance, 4 units, 3 lecture hours, 2 lab hours, (See also Chicano-Latino Studies 27)
Prerequisite: Chicano-Latino Studies/Dance 17, or demonstration of comparable skill level to be determined by testing at first class session. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

History of the origin of Mexican dance, from the arrival of the Spaniards to the present. Analysis of the form, function, and symbolism of the music, musical instruments, movements and choreographies. Dances practiced and performed at the advanced level. (A, CSU-GE, UC)

Change: repeats *effective Fall 2013*
 28 Intermediate Modern Dance Technique, 1 unit, 3 lab hours

Dental Hygiene (DH)

Change: repeats *effective Fall 2013*
 200 Clinical Dental Hygiene IV, .2-1 unit, 1.33-8 lab hours, (6 weeks), (Pass/No Pass)

Developmental Services (DEVSER)

Change: repeats *effective Fall 2013*
 250 Workability Assessment and Career Awareness, 3 units, 2 lecture hours, 3 lab hours, (Pass/No Pass)

Change: repeats *effective Fall 2013*
 251 Workability Preparation and Job Placement, 3 units, 2 lecture hours, 3 lab hours, (Pass/No Pass)

Change: repeats *effective Fall 2013*
 252 Workability Strategies and Job Maintenance, 3 units, 2 lecture hours, 3 lab hours, (Pass/No Pass)

Change: repeats *effective Fall 2013*
 255 Workability Experience, 1-4 units, 60-240 volunteer or 75-300 paid employment lab hours, (Pass/No Pass)

Change: repeats *effective Fall 2013*
 260 Workability, 3 units, 3 lecture hours, (Pass/No Pass), (Formerly Developmental Services 60)

Change: repeats *effective Fall 2013*
 262 Group Interaction for Students with Disabilities, 2 units, 2 lecture hours, (Pass/No Pass), (Formerly Developmental Services 62)

Change: repeats *effective Fall 2013*
 264 Transition to College for Students with Disabilities, 1 unit, 1 lecture hour, (Pass/No Pass)

Change: repeats *effective Fall 2013*
 272 Consumer Skills, 2 units, 6 lab hours, (Pass/No Pass), (Formerly Developmental Services 72)

Change: repeats *effective Fall 2013*
 273 Independent Living Skills for DSP&S Students, 2 units, 6 lab hours, (Pass/No Pass), (Formerly Developmental Services 73)

Change: repeats *effective Fall 2013*
 275 Horticulture Skills I, 2 units, 6 lab hours, (Pass/No Pass), (Formerly Developmental Services 75)

Change: repeats *effective Fall 2013*
 276 Horticulture Skills II, 2 units, 6 lab hours, (Pass/No Pass), (Formerly Developmental Services 76)

Change: repeats *effective Fall 2013*
 277 Adapted Computer Literacy, 2 units, 1 lecture hour, 3 lab hours, (Pass/No Pass), (Formerly Developmental Services 77)

Change: repeats *effective Fall 2013*
 278 Modified Word Processing, 2 units, 1 lecture hour, 3 lab hours, (Pass/No Pass), (Formerly Developmental Services 78)

Change: repeats *effective Fall 2013*
 279 Modified Computer Applications, 2 units, 1 lecture hour, 3 lab hours, (Pass/No Pass), (Formerly Developmental Services 79)

Change: repeats *effective Fall 2013*
 281 Professional Preparation for Students with Disabilities, 1 unit, 3 lab hours, (Pass/No Pass), (Formerly Developmental Services 81)

Change: repeats *effective Fall 2013*
 282 Greenhouse Workforce Prep, 3 units, 9 lab hours, (Pass/No Pass), (Formerly Developmental Services 82)

Change: repeats *effective Fall 2013*
 291 Strategies for Academic Success, 2 units, 2 lecture hours, (Pass/No Pass)

Change: repeats *effective Fall 2013*
 292 College Awareness Survival Skills, 2 units, 2 lecture hours, (Pass/No Pass)

Drafting (DRAFT)

Change: repeats, advisory *effective Spring 2013*
 12 Drafting Practices, 3 units, 2 lecture hours, 3 lab hours
Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 or Applied Technology 130 recommended.

Change: advisory, description *effective Fall 2013*
 12 Drafting Practices, 3 units, 2 lecture hours, 3 lab hours
Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 255 recommended.
 Freehand sketching, orthographic projection, measuring devices, geometric construction, pictorial drawing and dimensioning. (A, CSU)

Change: repeats *effective Fall 2013*
 19 Work Experience (Cooperative), Occupational, 1-8 units

Change: prerequisite *effective Spring 2013*
 160 Mathematics of Drafting, 3 units, 3 lecture hours, (Formerly Drafting 60)
Prerequisite: Eligibility for Mathematics 201 or Applied Technology 130.

Course deleted *effective Fall 2013*
 160 Mathematics of Drafting, 3 units, 3 lecture hours, (Formerly Drafting 60)

Economics (ECON)

Change: advisory *effective Spring 2013*
 25 Introduction to Economics, 3 units, 3 lecture hours
Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: advisory, description *effective Fall 2013*
 25 Introduction to Economics, 3 units, 3 lecture hours
Advisory: Eligibility for English 1A recommended. Mathematics 201 recommended.
 Introduction to market economies and contemporary economic issues through a survey of microeconomic and macroeconomic concepts. Topics include supply and demand, role of government, production and costs, measuring the

macroeconomy, economic policy, and economic growth. Course is designed for students not majoring in Business or Economics. (A, CSU)

Change: number, advisory

effective Fall 2013

40 Introduction to Microeconomics, 3 unit, 3 lecture hours, (Formerly Economics 1B)
Prerequisite: Mathematics 103. **Advisory:** Eligibility for English 1A recommended.

Change: number, advisory

effective Fall 2013

40H Honors Introduction to Microeconomics, 3 unit, 3 lecture hours, (Formerly Economics 1BH)
Prerequisite: Mathematics 103. **Advisory:** Meet the qualifications for consideration for acceptance in the Honors Program recommended. See Honors Program listing in the college catalog. Eligibility for English 1A recommended.

Change: number, advisory

effective Fall 2013

50 Introduction to Microeconomics, 3 unit, 3 lecture hours, (Formerly Economics 1A)
Prerequisite: Mathematics 103. **Advisory:** Eligibility for English 1A recommended.

Change: number, advisory, description

effective Fall 2013

50H Honors Introduction to Microeconomics, 3 unit, 3 lecture hours, (Formerly Economics 1AH)
Prerequisite: Mathematics 103. **Advisory:** Meet the qualifications for consideration for acceptance in the Honors Program recommended. See Honors Program listing in the college catalog. Eligibility for English 1A recommended.

An introductory analysis of aggregate economic variables. Topics include: market systems, aggregate measures of economic activity, macroeconomic equilibrium, money and financial institutions, monetary and fiscal policy, international economics and economic growth. Honors sections will discuss and analyze the works of historical economic figures. (A, CSU)

Education (EDUC)

Course deleted

effective Spring 2013

200A CBEST Preparation: English, .5 unit, 3 lecture hours, (3 weeks), (Repeats = 3), (Pass/No Pass), (Formerly Education 100 and 100A)

Course deleted

effective Spring 2013

200B CBEST Preparation: Mathematics, 1 unit, 3 lecture hours, (Pass/No Pass), (Repeats = 3), (Formerly Education 100 and 100B)

Educational Aide (EDA)

Course deleted

effective Spring 2013

1 Tutor Training, 1 unit, 1 lecture hour, 1 lab hour, (Repeats = 3)

Change: repeats

effective Fall 2013

19 Work Experience (Cooperative), Occupational 1-8 units

Electrical Systems Technology (EST)

Change: repeats

effective Fall 2013

19 Work Experience (Cooperative), Occupational, 1-8 units

Change: repeats

effective Spring 2013

51 Direct Current Fundamentals of Electronics, 3 units, 3 lecture hours, 1 lab hour, (Formerly Electronic Technology 51)

Change: repeats

effective Spring 2013

52 Alternating Current Fundamentals, 3 units, 3 lecture hours, 1 lab hour

Change: repeats

effective Spring 2013

53 Lab Safety Practices, 2 units, 2 lecture hours, 1 lab hour, (Formerly Electronic Technology 57)

Change: repeats

effective Spring 2013

55A Digital Concepts, 3 units, 3 lecture hours, 1 lab hour, (Formerly Electronic Technology 53)

Change: repeats

effective Spring 2013

55B Facility Automation, 3 units, 3 lecture hours, 1 lab hour

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|--|------------------------------|
| <i>Change: repeats</i> 55C SCADA Systems, 2 units, 2 lecture hours, 1 lab hour | <i>effective Spring 2013</i> |
| <i>Change: repeats</i> 56A Wiring Methods, 3 units, 3 lecture hours, 1 lab hour | <i>effective Spring 2013</i> |
| <i>Change: repeats</i> 56B Motor Controls, 3 units, 3 lecture hours, 1 lab hour | <i>effective Spring 2013</i> |
| <i>Change: repeats</i> 56C Industrial Electronics, 3 units, 3 lecture hours, 1 lab hour | <i>effective Spring 2013</i> |
| <i>Change: repeats</i> 57A Analog Communications, 3 units, 3 lecture hours, 1 lab hour | <i>effective Spring 2013</i> |
| <i>Change: repeats</i> 57B Digital Communications, 3 units, 3 lecture hours, 1 lab hour | <i>effective Spring 2013</i> |
| <i>Change: repeats</i> 57C Voice and Data Cabling, 3 units, 3 lecture hours, 1 lab hour | <i>effective Spring 2013</i> |
| <i>Change: repeats</i> 58 Programmable Logic Controllers, 3 units, 3 lecture hours, 1 lab hour, (Formerly Electronic Technology 58) | <i>effective Spring 2013</i> |
| <i>Change: repeats</i> 59 Instrumentation Systems, 3 units, 3 lecture hours, 1 lab hour, (Formerly Electronic Technology 60) | <i>effective Spring 2013</i> |
| <i>Change: repeats</i> 60 A+PC Maintenance, 3 units, 3 lecture hours, 1 lab hour, (Formerly Electronic Technology 61) | <i>effective Spring 2013</i> |
| <i>Change: repeats</i> 61 Networking Fundamentals, 3 units, 3 lecture hours, 1 lab hour, (Formerly Electronic Technology 59) | <i>effective Spring 2013</i> |
| <i>Change: repeats</i> 62 Router Protocols and Concepts, 3 units, 3 lecture hours, 1 lab hour | <i>effective Spring 2013</i> |
| <i>Change: repeats</i> 63 Advanced Routing and Switching, 3 units, 3 lecture hours, 1 lab hour | <i>effective Spring 2013</i> |
| <i>Change: repeats</i> 64 Advanced Networking and Management, 3 units, 3 lecture hours, 1 lab hour | <i>effective Spring 2013</i> |
| <i>Change: repeats</i> 65 Building Scalable Internetworks, 3 units, 3 lecture hours, 1 lab hour | <i>effective Spring 2013</i> |
| <i>Change: repeats</i> 66 Building Multilayer Switched Networks, 3 units, 3 lecture hours, 1 lab hour | <i>effective Spring 2013</i> |
| <i>Change: repeats</i> 67 Implementing Secure Converged WANs, 3 units, 3 lecture hours, 1 lab hour | <i>effective Spring 2013</i> |
| <i>Change: repeats</i> 68 Optimizing Converged Networks, 3 units, 3 lecture hours, 1 lab hour | <i>effective Spring 2013</i> |
| <i>Change: repeats, description</i> 80 Introduction to Energy Systems of Past, Present, and Future, 2 units, 2 lecture hours Prerequisite: None. An introduction to energy systems (transportation, generation, and lifestyle systems) of the past, present and future. Includes the need to evaluate future energy systems for sustainability and their impact on mankind and the environment. (A, CSU) | <i>effective Spring 2013</i> |
| <i>Change: title, units, hours, advisory, description</i> 80 Introduction to Photovoltaics, 3 units, 3 lecture hours, 1 lab hour Advisory: Electrical Systems Technology 51, 52, 53, and 54. Designed for students interested in a career in the solar industry. Introduction to the fundamental principles and functions of the photovoltaic industry along with the installation of necessary components for a photovoltaic system. Review the transmission and distribution of electric power as well as alternative means for energy generation. (A, CSU) | <i>effective Fall 2013</i> |

Change: repeats *effective Spring 2013*
 81 Photovoltaic Systems, 3 units, 3 lecture hours, 1 lab hour

Change: repeats *effective Spring 2013*
 82A Introduction to Robotics, 4 units, 3 lecture hours, 2 lab hours

Change: repeats *effective Spring 2013*
 82B Robotic Applications, 4 units, 3 lecture hour, 2 lab hours

Change: repeats *effective Fall 2013*
 96A National Electrical Code Part 1, 3 units, 3 lecture hours, (See also Building Safety and Code Administration 17)

Change: repeats *effective Fall 2013*
 96B National Electrical Code Part 2, 3 units, 3 lecture hours, (See also Building Safety and Code Administration 27)

Change: repeats *effective Fall 2013*
 96C National Electrical Code Part 3, 3 units, 3 lecture hours, (See also Building Safety and Code Administration 37)

Change: repeats *effective Fall 2013*
 96D National Electrical Code – Electrical Safety, 3 units, 3 lecture hours, (See also Building Safety and Code Administration 47)

Change: advisory *effective Spring 2013*
 175 Residential Wiring, 4 units, 3 lecture hours, 4 lab hours, (Repeats = 3), (See also Construction 175), (Formerly Electronic Technology 75 and Electrical Systems Technology 75).

Advisory: Eligibility for Applied Technology 130 or Mathematics 201 and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Change: repeats *effective Spring 2013*
 269A Fundamentals of Network Security – Firewalls, 3 units, 3 lecture hours, 1 lab hour

Change: repeats *effective Spring 2013*
 269B Fundamentals of Wireless LANS, 3 units, 3 lecture hours, 1 lab hour

Change: repeats *effective Spring 2013*
 271 Electrical Line/Utility Worker, 12 units, 20.9 lecture hours, 10 lab hours, (9 weeks)

English (ENGL)

Change: C-ID Designation
 3 Critical Reading & Writing, 3 unit, 3 lecture hours
 (C-ID ENGL 105)

Change: C-ID Designation
 3H Honors Critical Reading & Writing, 3 unit, 3 lecture hours
 (C-ID ENGL 105)

Change: repeats *effective Fall 2013*
 15A Creative Writing: Poetry, 3 units, 3 lecture hours, (Formerly English 15)

Change: repeats *effective Fall 2013*
 15B Creative Writing: Fiction, 3 units, 3 lecture hours

Change: repeats *effective Fall 2013*
 15C Creative Writing: Playwriting, 3 units, 3 lecture hours, (See also Theatre Arts 15C)

Change: repeats *effective Fall 2013*
 15D Creative Writing: Autobiography, 3 units, 3 lecture hours

Change: repeats *effective Fall 2013*
 40 Critical Thinking about Literature, 3 units, 3 lecture hours

Course deleted *effective Fall 2013*
 250 Basic Writing, 4 units, 4 lecture hours, (Pass/No Pass), (Formerly English 50)

Change: repeats *effective Fall 2013*
 277 Reading Skills, 3 units, 2 lecture hours, 2 lab hours, (Pass/No Pass), (Formerly English 77)

Change: repeats *effective Fall 2013*
 278 Reading Comprehension, 3 units, 2 lecture hours, 2 lab hours, (Pass/No Pass), (Formerly English 78)

Course deleted *effective Fall 2013*
 279 Beginning Spelling, Vocabulary, Penmanship, 2 units, 1 lecture hour, 3 lab hours, (Pass/No Pass), (Repeats = 3), (Formerly English 79)

Course deleted *effective Fall 2013*
 280 Advanced Spelling and Vocabulary, 2 units, 1 lecture hour, 3 lab hours, (Pass/No Pass), (Repeats = 3), (Formerly English 80)

Change: repeats *effective Fall 2013*
 281 Grammar and Sentence Writing, 3 units, 2 lecture hours, 2 lab hours, (Pass/No Pass), (Formerly English 81)

Change: repeats *effective Fall 2013*
 282 Paragraph Writing, 3 units, 2 lecture hours, 2 lab hours, (Pass/No Pass), (Formerly English 82)

Fashion and Textiles Studies (FSHTX)

Change: advisory *effective Spring 2013*
 22 Fashion Analysis and Wardrobe Selection, 3 units, 3 lecture hours, (Formerly Retailing Fashion 8 and Fashion Merchandising 22)
Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Course deleted *effective Spring 2013*
 24 Beginning Sewing, 3 units, 2 lecture hours, 4 lab hours, (Repeats = 3), (Formerly Home Economics 24)

Course deleted *effective Spring 2013*
 25 Professional Image, 3 units, 3 lecture hours, (Formerly Retailing Fashion 12 and Fashion Merchandising 25)

Course deleted *effective Spring 2013*
 26 Intermediate Sewing, 2 units, 6 lab hours, (Repeats = 3), (Formerly Home Economics 26)

Course deleted *effective Spring 2013*
 30 Ethnic Dress, 3 units, 3 lecture hours, (Repeats = 2), (Formerly Home Economics 30)

Fashion Merchandising (FM)

Course deleted *effective Fall 2013*
 10 Principles of Marketing, 3 units, 3 lecture hours, (See also Marketing 10), (Formerly Retailing Fashion 10)

Course deleted *effective Fall 2013*
 14 Retailing, 3 units, 3 lecture hours, (See also Marketing 14), (Formerly Retailing Fashion 14)

Change: repeats *effective Fall 2013*
 19 Work Experience (Cooperative), Occupational, 1-8 units

Course deleted *effective Fall 2013*
 21 Salesmanship, 3 units, 3 lecture hours, (See also Marketing 11), (Formerly Retailing Fashion 21)

Change: advisory *effective Spring 2013*
 27 Introduction to Fashion Industry, 3 units, 3 lecture hours
Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: title, advisory, description *effective Spring 2013*
 27 Introduction to Fashion Merchandising, 3 units, 3 lecture hours, (See also Marketing 22)
Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.
 Provides students an introduction to the world of fashion merchandising. Includes the history/global perspectives, uniqueness, and opportunities in fashion. Also presents fundamentals of fashion, basic fashion terminology, and an overview of textiles and apparel. (A, CSU)

Change: advisory**effective Spring 2013**

28 Visual Merchandising, 3 units, 2 lecture hours, 2 lab hours, (See also Marketing 17), (Formerly Retailing Fashion 17)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.

Film (FILM)**Change: repeats****effective Spring 2013**

5 Digital Filmmaking, 3 units, 3 lecture hours

Fire Technology (FIRET)**Change: advisory****effective Spring 2013**

3 Fire Protection Equipment and Systems, 3 units, 8.4 lecture hours, (7 weeks), (Spring), (Formerly Fire Science 7)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.

Change: advisory**effective Spring 2013**

8 Fire Hydraulics, 3 units, 8.4 lecture hours, (7 weeks), (Spring), (Formerly Fire Science 8)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.

Change: repeats**effective Fall 2013**

261 Emergency Medical Technician 1 Refresher, 1 unit, 1.33 lecture hours, (Open Entry/Open Exit), (Formerly Fire Science 61 and Fire Technology 61)

Change: repeats**effective Fall 2013**

269 Advanced Firefighter Topics, .1-2 units, 1-40 lecture hours, 1-60 lab hours, (1-18 weeks), (Pass/No Pass), (Open Entry/Open Exit)

Food and Nutrition (FN)**Change: advisory****effective Spring 2013**

1 Principles of Food Preparation, 3 units, 2 lecture hours, 3 lab hours, (Formerly Home Economics 1)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.

Change: advisory**effective Spring 2013**

41 Sports Nutrition, 2 units, 2 lecture hours, (Formerly Home Economics 41)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.

Food Service Management (FSM)**Change: advisory****effective Spring 2013**

15 Food Production Management, 2 units, 2 lecture hours, (Formerly Dietetic Services 15)

Advisory: Food Service Management 35 recommended. Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended. Concurrent enrollment in Food Service Management 19 recommended.

Change: repeats**effective Fall 2013**

19 Work Experience (Cooperative), Occupational, 1-8 units

Change: advisory**effective Spring 2013**

25 Food and Beverage Purchase and Control, 2 units, 2 lecture hours, (Formerly Food Services 66)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: advisory**effective Spring 2013**

38 Quantity Food Preparation, 3 units, 1 lecture hour, 6 lab hours, (Formerly Dietetic Services 58)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended. Food Service Management 35 and Food and Nutrition 1 recommended.

Change: advisory

effective Spring 2013

63 Child Nutrition Program Management, 3 units, 3 lecture hours

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: advisory

effective Spring 2013

146 Elementary Food Service Computation I, 1.5 units, 1.5 lecture hours, (Formerly Food Service Management 46)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: advisory

effective Spring 2013

147 Elementary Food Service Computation II, 1.5 units, 1.5 lecture hours, (Formerly Food Service Management 47)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: advisory

effective Spring 2013

149 Food Service Internship, 3 units, 1 lecture hour, 6.67 lab hours, (Formerly Food Service Management 49)

Advisory: Food Service Management 35, Food and Nutrition 1, and eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: advisory

effective Spring 2013

162 Menu Planning for Child Nutrition, 3 units, 3 lecture hours, (Formerly Food Service 62 and Food Service Management 62)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 and Food Service Management 160 recommended.

Foreign Languages

American Sign Language (ASL)

Change: description

effective Fall 2013

3 Intermediate American Sign Language, 4 units, 4 lecture hours, (Formerly American Sign Language 2A)

Prerequisite: American Sign Language 2 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second 67 and 68 recommended.

Third semester American Sign Language and its usefulness as a means of communication with the deaf and hard of hearing. An introduction to the culture of the Deaf community and the literary and artistic contributions of this culture. (A, CSU-GE, UC, I)

Change: prerequisite, description

effective Fall 2013

5 Deaf Culture, 3 units, 3 lecture hours

Prerequisite: American Sign Language 2 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second 67 and 68 recommended.

An in-depth study of Deaf culture and the deaf community which will help students understand Deaf culture, values, language, identity, rules of interaction, and traditions. Students will learn about the deep-rooted ties that Deaf people have with residential schools; Gallaudet University; and national, state, and local organizations. (A, CSU-GE)

Change: prerequisite, description

effective Fall 2013

6 Structure of American Sign Language, 3 units, 3 lecture hours

Prerequisite: American Sign Language 3 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second 67 and 68 recommended.

Examination of the parts of a sign; building words in American Sign Language; sentence types (questions, statements, relative clauses, etc.) the meaning and issue of iconicity; organization of sentences according to old and new information; and the structure of stories. Emphasis in grammatical features of American Sign Language, such as classifiers, verb modulations and aspects, and the role of facial expression, body orientation and eye gaze. (A, CSU-GE, UC)

Change: prerequisite

effective Fall 2013

7 Deaf History, 3 units, 3 lecture hours

Prerequisite: American Sign Language 2 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second 67 and 68 recommended.

Change: prerequisite

effective Fall 2013

8 American Sign Language Literature/Folklore, 3 units, 3 lecture hours.

Prerequisite: American Sign Language 2. **Advisory:** Eligibility for English 125 and 126 or English as a Second 67 and 68 recommended.

Change: prerequisite **effective Fall 2013**

20 Introduction to Interpreting, 3 units, 3 lecture hours

Prerequisite: American Sign Language 2 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second 67 and 68 recommended.

Change: prerequisite **effective Fall 2013**

21 American Sign Language to English Translation, 3 units, 3 lecture hours

Prerequisite: American Sign Language 3 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second 67 and 68 recommended.

Change: prerequisite **effective Fall 2013**

22 English to American Sign Language Translation, 3 units, 3 lecture hours

Prerequisite: American Sign Language 3 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second 67 and 68 recommended.

Armenian (ARMEN)

Change: units, hours **effective Fall 2013**

1 Beginning Armenian, 5 units, 5 lecture hours, (Formerly Armenian 1A)

Change: units, hours **effective Fall 2013**

2 High-Beginning Armenian, 5 units, 5 lecture hours, (Formerly Armenian 1B)

Change: units, hours, prerequisite **effective Fall 2013**

3 Intermediate Armenian, 5 units, 5 lecture hours

Prerequisite: Armenian 2 or 3 years of high school Armenian, or equivalent (Extensive living experience with the language).

Chinese (CHIN)

Change: units, hours, description **effective Fall 2013**

1 Beginning Chinese, 5 units, 5 lecture hours, (Formerly Chinese 1A)

Advisory: Eligibility for English 125 and 126 or English as a Second 67 and 68 recommended.

First semester Mandarin Chinese listening/speaking, reading/writing, vocabulary, and grammar. Designed for students who have no knowledge of Chinese. (A, CSU-GE, UC, I)

Change: units, hours, description **effective Fall 2013**

2 High-Beginning Chinese, 5 units, 5 lecture hours, (Formerly Chinese 1B)

Prerequisite: Chinese 1 or two years of high school Chinese or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second 67 and 68 recommended.

Second semester Mandarin Chinese listening, speaking, grammar, reading, writing, and vocabulary. (A, CSU-GE, UC, I)

Change: units, hours, description **effective Fall 2013**

3 Intermediate Chinese, 5 units, 5 lecture hours

Prerequisite: Chinese 2 or two years of high school Chinese or equivalent (extensive living experience with the language). **Advisory:** Eligibility for English 125 and 126 or English as a Second 67 and 68 recommended.

Third semester Mandarin Chinese listening, speaking, grammar, reading, writing and vocabulary. (A, CSU-GE, UC, I)

Change: units, hours, prerequisite, description **effective Fall 2013**

4 High-Intermediate Chinese, 5 units, 5 lecture hours

Prerequisite: Chinese 3 or equivalent (Extensive living experience with the language). **Advisory:** Eligibility for English 125 and 126 or English as a Second 67 and 68 recommended.

Fourth semester Mandarin Chinese listening, speaking, grammar, reading, writing, and vocabulary. (A, CSU-GE, UC, I)

Change: units, hours, description **effective Fall 2013**

5 Chinese Short Stories and Culture, 4 units, 4 lecture hours

Prerequisite: Chinese 4 or equivalent (Extensive living experience with the language). **Advisory:** Eligibility for English 125 and 126 or English as a Second 67 and 68 recommended.

Advanced Chinese class with emphasis on reading and writing pertaining to Mandarin Chinese literature and culture. The course will focus on continued development of Chinese language skills and critical analysis of Chinese literature and culture. (A, CSU-GE, UC, I)

French (FRENCH)*Change: units, hours*

1 Beginning French, 5 units, 5 lecture hours, (Formerly French 1A)

*effective Fall 2013**Change: units, hours*

2 High-Beginning French, 5 units, 5 lecture hours, (Formerly French 1B)

*effective Fall 2013**Change: units, hours*

3 Intermediate French, 5 units, 5 lecture hours, (Formerly French 2A)

*effective Fall 2013**Change: units, hours*

4 High-Intermediate French, 5 units, 5 lecture hours, (Formerly French 2B)

*effective Fall 2013***German (GERMAN)***Change: units, hours*

1 Beginning German, 5 units, 5 lecture hours, (Formerly German 1A)

*effective Fall 2013**Change: units, hours*

2 High-Beginning German, 5 units, 5 lecture hours, (Formerly German 1B)

*effective Fall 2013**Change: units, hours*

3 Intermediate German, 5 units, 5 lecture hours, (Formerly German 2A)

*effective Fall 2013**Change: units, hours*

4 High-Intermediate German, 5 units, 5 lecture hours, (Formerly German 2B)

*effective Fall 2013***Hmong (HMONG)***Change: units, hours*

1 Beginning Hmong, 5 units, 5 lecture hours, (Formerly Hmong 1A)

*effective Fall 2013**Change: units, hours*

2 High-Beginning Hmong, 5 units, 5 lecture hours, (Formerly Hmong 1B)

*effective Fall 2013***Japanese (JAPAN)***Change: units, hours*

1 Beginning Japanese, 5 units, 5 lecture hours, (Formerly Japanese 1A)

*effective Fall 2013**Change: units, hours*

2 High-Beginning Japanese, 5 units, 5 lecture hours, (Formerly Japanese 1B)

*effective Fall 2013***Portuguese (PORT)***Change: units, hours, description*

1 Beginning Portuguese, 5 units, 5 lecture hours

*effective Fall 2013***Advisory:** Eligibility for English 125 and 126 or English as a Second 67 and 68 recommended.

First semester Portuguese listening, speaking, grammar, writing, reading, and vocabulary, Portuguese and Brazilian cultures. (A, CSU-GE, UC, I)

Change: units, hours

2 High-Beginning Portuguese, 5 units, 5 lecture hours

*effective Fall 2013**Change: units, hours*

3 Intermediate Portuguese, 5 units, 5 lecture hours

*effective Fall 2013**Change: units, hours*

4 High-Intermediate Portuguese, 5 units, 5 lecture hours

effective Fall 2013

Russian (RUSS)

| | |
|---|----------------------------|
| <i>Course deleted</i> | <i>effective Fall 2013</i> |
| 1 Beginning Russian, 4 units, 3 lecture hours, 2 lab hours, (Formerly Russian 1A) | |
| <i>Course deleted</i> | <i>effective Fall 2013</i> |
| 2 High-Beginning Russian, 4 units, 3 lecture hours, 2 lab hours, (Formerly Russian 1B) | |
| <i>Course deleted</i> | <i>effective Fall 2013</i> |
| 3 Intermediate Russian, 4 units, 3 lecture hours, 2 lab hours, (Formerly Russian 2A) | |
| <i>Course deleted</i> | <i>effective Fall 2013</i> |
| 4 High-Intermediate Russian, 4 units, 3 lecture hours, 2 lab hours, (Formerly Russian 2B) | |

Spanish (SPAN)

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|---|----------------------------|
| <i>Change: units, hours, C-ID designation</i> | <i>effective Fall 2013</i> |
| 1 Beginning Spanish, 5 units, 5 lecture hours, (Formerly Spanish 1A) (C-ID SPAN 100) | |
| <i>Change: units, hours</i> | <i>effective Fall 2013</i> |
| 2 High-Beginning Spanish, 5 units, 5 lecture hours, (Formerly Spanish 1B) | |
| <i>Change: units, hours</i> | <i>effective Fall 2013</i> |
| 3 Intermediate Spanish, 5 units, 5 lecture hours, (Formerly Spanish 2A) | |
| <i>Change: units, hours, title</i> | <i>effective Fall 2013</i> |
| 3NS Intermediate Spanish for Spanish Speakers, 5 units, 5 lecture hours, (Formerly Spanish 21) | |
| <i>Change: units, hours</i> | <i>effective Fall 2013</i> |
| 4 High-Intermediate Spanish, 5 units, 5 lecture hours, (Formerly Spanish 2B) | |
| <i>Change: units, hours, title</i> | <i>effective Fall 2013</i> |
| 4NS High-Intermediate Spanish for Spanish Speakers, 5 units, 5 lecture hours, (Formerly Spanish 22) | |
| <i>Change: units, hours</i> | <i>effective Fall 2013</i> |
| 5 The Short Story: Mexico, Spain, and the U.S., 4 units, 4 lecture hours, (Formerly Spanish 3A) | |
| <i>Change: units, hours</i> | <i>effective Fall 2013</i> |
| 6 The Short Story: Latin America, 4 units, 4 lecture hours | |
| <i>Change: units, hours</i> | <i>effective Fall 2013</i> |
| 7 Advanced Spanish: Composition and Grammar, 4 units, 4 lecture hours | |
| <i>Change: units, hours</i> | <i>effective Fall 2013</i> |
| 8 Advanced Spanish Conversation, 4 units, 4 lecture hours | |
| <i>Change: units, hours</i> | <i>effective Fall 2013</i> |
| 9 Spanish Business and Culture, 4 units, 4 lecture hours | |
| <i>Course deleted</i> | <i>effective Fall 2013</i> |
| 10 Many Mexicos: A Cultural Overview, 1 unit, 1 lecture hour | |
| <i>Course deleted</i> | <i>effective Fall 2013</i> |
| 11 Costa Rica: A Cultural Overview, 1 unit, 1 lecture hours | |
| <i>Course deleted</i> | <i>effective Fall 2013</i> |
| 12 Spain: A Cultural Overview, 2 units, 2 lecture hours | |

Swahili (SWAHLI)

| | |
|---|----------------------------|
| <i>Course deleted</i> | <i>effective Fall 2013</i> |
| 1 Beginning Swahili, 4 units, 3 lecture hours, 2 lab hours, (See also African-American Studies 21), (Formerly Swahili 1A) | |

*Course deleted**effective Fall 2013*

2 High-Beginning Swahili, 4 units, 3 lecture hours, 2 lab hours, (See also African-American Studies 22), (Formerly Swahili 1B)

Geography (GEOG)*Change: advisory**effective Fall 2013*

1 Physical Geography, 3 units, 3 lecture hours
Advisory: Eligibility for English 1A recommended.

*Change: advisory, description**effective Fall 2013*

2 Cultural Geography, 3 units, 3 lecture hours
Advisory: Eligibility for English 1A recommended.

Survey of basic concepts, theories, and research in human and cultural geography. Emphasis is placed on spatial patterns of culture, the interaction between culture and the physical environment, and cultural change. Specific topics may include reading and interpretation of maps, human impacts on the environment, agriculture and food systems, cultural landscapes, urban geography, geography of religion, gender and sexuality, geopolitics, and globalization. (A, CSU-GE, UC, I)

*Change: advisory, description**effective Fall 2013*

4A World Geography, 3 units, 3 lecture hours, (Formerly Geography 4)
Advisory: Eligibility for English 1A recommended.

Introductory survey of world regional geography. Emphasis is placed on cultural, economic, political, and physical characteristics of regions, and the influence of geography on population patterns, use of natural resources, and geopolitical relationships amongst countries. Covers Europe, Russia and the Post-Soviet region, Sub-Saharan Africa, North Africa and Southwest Asia, South Asia, Southeast Asia, and East Asia. (A, CSU-GE, UC, I)

*Change: advisory, description**effective Fall 2013*

4B World Geography, 3 units, 3 lecture hours, (Formerly Geography 5)
Advisory: Eligibility for English 1A recommended.

Introductory survey of world regional geography. Emphasis is placed on cultural, economic, political, and physical characteristics of regions, and the influence of geography on population patterns, use of natural resources, and geopolitical relationships amongst countries. Covers North America, the Caribbean, Latin America, Australia and Oceania. (A, CSU-GE, UC, I)

*Change: advisory**effective Fall 2013*

7 Physical Geography: Earth's Surface, 4 units, 3 lecture hours, 2 lab hours
Advisory: Eligibility for English 1A recommended.

*Change: advisory**effective Fall 2013*

8 Physical Geography: Weather and Climate, 4 units, 3 lecture hours, 2 lab hours
Advisory: Eligibility for English 1A recommended.

*Change: advisory**effective Spring 2013*

10 Introduction to GIS, 3 units, 2 lecture hours, 4 lab hours
Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended. Computer Information Technology 15 is desirable.

*Change: advisory**effective Fall 2013*

10 Introduction to GIS, 3 units, 2 lecture hours, 4 lab hours
Advisory: Eligibility for English 1A and Mathematics 201 recommended. Computer Information Technology 15 is desirable.

*Change: advisory, description**effective Fall 2013*

20 Geography of California, 3 units, 3 lecture hours
Advisory: Eligibility for English 1A recommended.

Course covers California's physical, cultural, and regional geography. Content includes geology and geomorphology, climate, vegetation, water resources, and natural hazards in the state; Native American and Spanish settlement; statehood and 19th century settlement; contemporary patterns of population, migration, ethnic diversity, and political and economic geography. (A, CSU-GE, UC, I)

*Change: units, repeats, advisory**effective Fall 2013*

30 Topics in Geography, 1-6 units, 1-3 lecture hours, 0-9 lab hours
Advisory: Eligibility for English 1A recommended.

Geology (GEOL)***Change: prerequisite******effective Spring 2013*****1 Physical Geology, 4 units, 3 lecture hours, 2 lab hours****Prerequisite:** Mathematics 201. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.***Change: C-ID designation*****2 Historical Geology, 3 units, 3 lecture hours
(C-ID GEOL 110)*****New Course******effective Fall 2013*****2L Historical Geology Lab, 1 unit, 3 lab hours****Corequisite:** Geology 2.

Laboratory studies to complement Geology 2 Historical Geology. Laboratory activities using rocks, fossils, geologic maps and cross sections to interpret ancient environments, tectonic settings and geologic history. At least one field trip or an appropriate alternative activity are required. For geology majors or students with a desire to learn more about earth history. (A, CSU)

Change: repeats***effective Fall 2013*****3 Geology Field Studies, 1-2 units, .5-1 lecture hours, 1-2 lab hours*****Change: C-ID designation*****4 Geology of California, 3 units, 3 lecture hours
(C-ID GEOL 200)*****Change: units, hours******effective Fall 2013*****9 Introduction to Earth Science, 4 units, 3 lecture hours, 2 lab hours*****Change: repeats******effective Fall 2013*****11 International Geology Field Studies, 1-3 units, 1-3 lecture hours, (Pass/No Pass)****Graphic Communications (GRC)*****Change: repeats******effective Fall 2013*****5 Introduction to Macintosh Computer Use, 1 unit, 2 lecture hours, (9 weeks), (Formerly Printing Technology 5)*****Change: advisory******effective Spring 2013*****10 Introduction to Graphic Communications, 2 units, 2 lecture hours, (Repeats = 3), (Formerly Printing Technology 10)****Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.***Change: repeats******effective Fall 2013*****10 Introduction to Graphic Communications, 2 units, 2 lecture hours, (Formerly Printing Technology 10)*****Change: advisory******effective Spring 2013*****13 Introduction to Image Capture/Scanning, 1 unit, 2 lecture hours, (9 weeks), (Repeats = 3), (Formerly Printing Technology 13)****Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.***Change: repeats******effective Fall 2013*****13 Introduction to Image Capture/Scanning, 1 unit, 2 lecture hours, (9 weeks), (Formerly Printing Technology 13)*****Change: advisory******effective Spring 2013*****14 Adobe Acrobat Professional, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)****Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.***Change: repeats******effective Fall 2013*****14 Adobe Acrobat Professional, 3 units, 2 lecture hours, 3 lab hours*****Change: advisory******effective Spring 2013*****15 Web Page Construction 1, 4 units, 3 lecture hours, 3 lab hours, (Repeats = 3)**

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats **effective Fall 2013**

15 Web Page Construction 1, 4 units, 3 lecture hours, 3 lab hours

Change: advisory **effective Spring 2013**

16 Web Design, 4 units, 3 lecture hours, 3 lab hours, (Repeats = 3)

Prerequisite: Graphic Communications 15 or permission of instructor. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats, prerequisite **effective Fall 2013**

16 Web Design, 4 units, 3 lecture hours, 3 lab hours

Prerequisite: None.

Change: advisory **effective Spring 2013**

17 Adobe Illustrator, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3), (Formerly Printing Technology 17)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats **effective Fall 2013**

17 Adobe Illustrator, 3 units, 2 lecture hours, 3 lab hours, (Formerly Printing Technology 17)

Change: advisory **effective Spring 2013**

18 Production Methods, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats **effective Fall 2013**

18 Production Methods, 3 units, 2 lecture hours, 3 lab hours

Change: repeats **effective Fall 2013**

19 Work Experience (Cooperative), Occupational 1-8 units, (Formerly Printing Technology 19)

Change: advisory **effective Spring 2013**

20 Graphic Communications, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3), (Formerly Printing Technology 20)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats **effective Fall 2013**

20 Graphic Communications, 3 units, 2 lecture hours, 3 lab hours, (Formerly Printing Technology 20)

Change: advisory **effective Spring 2013**

22 Multimedia 1, 4 units, 3 lecture hours, 3 lab hours, (Repeats = 3)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats **effective Fall 2013**

22 Multimedia 1, 4 units, 3 lecture hours, 3 lab hours

Change: repeats **effective Fall 2013**

23 Multimedia 2, 4 units, 3 lecture hours, 3 lab hours

Change: advisory **effective Spring 2013**

24 Flash Animation, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats **effective Fall 2013**

24 Flash Animation, 3 units, 2 lecture hours, 3 lab hours

Change: advisory **effective Spring 2013**

25 Specialized Web Techniques, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

- Change: repeats** **effective Fall 2013**
25 Specialized Web Techniques, 3 units, 2 lecture hours, 3 lab hours
- Change: advisory** **effective Spring 2013**
27 Digital Video Production, 4 units, 3 lecture hours, 3 lab hours, (Repeats = 3)
Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.
- Change: repeats** **effective Fall 2013**
27 Digital Video Production, 4 units, 3 lecture hours, 3 lab hours
- Change: advisory** **effective Spring 2013**
28 Independent Study – Graphics, 1-3 units, 3-9 lab hours, (Repeats = 3)
Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.
- Change: repeats** **effective Fall 2013**
28 Independent Study – Graphics, 1-3 units, 3-9 lab hours
- Change: advisory** **effective Spring 2013**
30 Adobe InDesign/Professional Publishing, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3), (Formerly Printing Technology 30)
ADVISORY: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.
- Change: repeats** **effective Fall 2013**
30 Adobe InDesign/Professional Publishing, 3 units, 2 lecture hours, 3 lab hours, (Formerly Printing Technology 30)
- Change: advisory** **effective Spring 2013**
31 Photoshop for Graphics, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)
Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.
- Change: repeats** **effective Fall 2013**
31 Photoshop for Graphics, 3 units, 2 lecture hours, 3 lab hours
- Change: advisory** **effective Spring 2013**
32 Video Techniques, 4 units, 3 lecture hours, 3 lab hours, (Repeats = 3)
Prerequisite: Graphic Communications 27 or permission of instructor. Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.
- Change: repeats, prerequisite** **effective Fall 2013**
32 Video Techniques, 4 units, 3 lecture hours, 3 lab hours
Prerequisite: None.
- Change: advisory** **effective Spring 2013**
33 Flash for the Web, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)
Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.
- Change: repeats** **effective Fall 2013**
33 Flash for the Web, 3 units, 2 lecture hours, 3 lab hours
- Change: advisory** **effective Spring 2013**
34 Introduction to 3-D Animation, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)
Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201, and Graphic Communication 24 recommended.
- Change: repeats** **effective Fall 2013**
34 Introduction to 3-D Animation, 3 units, 2 lecture hours, 3 lab hours
- Change: advisory** **effective Spring 2013**
39A Graphic Design I, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3), (Formerly Printing Technology and Graphic Communications 39)
Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats **effective Fall 2013**
39A Graphic Design I, 3 units, 2 lecture hours, 3 lab hours, (Formerly Printing Technology and Graphic Communications 39)

Change: advisory **effective Spring 2013**
40A Graphic Design II, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3), (Formerly Printing Technology and Graphic Communications 40)

Prerequisite: Graphic Communications 39A. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats **effective Fall 2013**
40A Graphic Design II, 3 units, 2 lecture hours, 3 lab hours, (Formerly Printing Technology and Graphic Communications 40)

Change: repeats **effective Fall 2013**
41 Visual Communications, 3 units, 2 lecture hours, 3 lab hours, (Formerly Printing Technology 41)

Change: repeats **effective Fall 2013**
51 Storyboarding, 1 unit, 2 lecture hours, (9 weeks)

Health Information Technology (HIT)

Change: repeats **effective Fall 2013**
15 Medical Coding Directed Practice, 1 unit, 3 lab hours, (Pass/No Pass)

History (HIST)

New Course **effective Fall 2013**

12H Honors History of the United States since 1877, 3 units, 3 lab hours

Advisory: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.

Political, social and economic development since the Reconstruction Era; the US as a world power. In addition, honors sections offer more in-depth study of modern U.S. history, critically evaluate controversies in historiography, and place greater emphasis on the use of history in understanding the modern world. (A, CSU)

Change: description **effective Fall 2013**

20 World History I, to 1600, 3 units, 3 lecture hours

Advisory: English 1A.

Economic, political, and social developments in World Civilization from the emergence of human communities to around 1600. (A, CSU-GE, UC, I)

Honors

Change: advisory **effective Spring 2013**

ACCTG 4AH Honors Financial Accounting, 4 units, 4 lecture hours, 1 lab hour

Advisory: Meet the qualifications for consideration for acceptance in the Honors Program recommended. See Honors listing in the college catalog.

Change: advisory, description, C-ID designation **effective Fall 2013**

ACCTG 4AH Honors Financial Accounting, 4 units, 4 lecture hours, 1 lab hour

Advisory: Meet the qualifications for consideration for acceptance in the Honors Program recommended. See Honors listing in the college catalog.

Explores what financial accounting is, why it is important, and how it is used by investors and creditors to make decisions. Covers the accounting information system and the recording and reporting of business transactions with a focus on the accounting cycle, financial statements, and statement analysis. Includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flows, internal controls, and ethics. (C-ID ACCT 110) (A, CSU, UC)

Change: prerequisite, description, C-ID designation **effective Fall 2013**

ACCTG 4BH Honors Managerial Accounting, 4 units, 4 lecture hours, 1 lab hour

Prerequisite: Accounting 4A or equivalent. **Advisory:** Meet the requirements for consideration for acceptance into the Honors Program. See Honors Program listing in the college catalog.

Examination of how managers use accounting information in making decisions related to planning, directing, and controlling. Covers cost terms and concepts, cost control, accounting for costs in manufacturing and service organizations,

cost behavior, cost structure, cost-volume-profit analysis, profit planning, standard costs, and capital budgeting. (C-ID ACCT 120) (A, CSU, UC)

Change: number, advisory **effective Fall 2013**

ECON 40H Honors Introduction to Microeconomics, 3 unit, 3 lecture hours, (Formerly Economics 1BH)

Advisory: Meet the qualifications for consideration for acceptance in the Honors Program recommended. See Honors Program listing in the college catalog. Eligibility for English 1A recommended.

Change: number, advisory, description

effective Fall 2013

ECON 50H Honors Introduction to Microeconomics, 3 unit, 3 lecture hours, (Formerly Economics 1AH)

Advisory: Meet the qualifications for consideration for acceptance in the Honors Program recommended. See Honors Program listing in the college catalog. Eligibility for English 1A recommended.

An introductory analysis of aggregate economic variables. Topics include: market systems, aggregate measures of economic activity, macroeconomic equilibrium, money and financial institutions, monetary and fiscal policy, international economics and economic growth. Honors sections will discuss and analyze the works of historical economic figures. (A, CSU)

New Course

effective Fall 2013

HISTORY 12H Honors History of the United States since 1877, 3 units, 3 lab hours

Advisory: Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.

Political, social and economic development since the Reconstruction Era; the US as a world power. In addition, honors sections offer more in-depth study of modern U.S. history, critically evaluate controversies in historiography, and place greater emphasis on the use of history in understanding the modern world. (A, CSU)

Change: repeats

effective Fall 2013

HONORS 1F Honors Phi Theta Kappa Colloquium: Phi Theta Kappa Study Topics, 1 unit, 1 lecture hour

Human Services (HS)

Change: repeats

effective Fall 2013

19A Work Experience (Cooperative), Occupational, 1-8 units

Change: repeats

effective Fall 2013

19B Work Experience (Cooperative), Occupational, 1-8 units

Humanities (HUMAN)

Course deleted

effective Fall 2013

7 Introduction to British Culture, 3 units, 3 lecture hours, (See also Cultural Studies 7)

Course deleted

effective Fall 2013

7H Honors Introduction to British Culture, 3 units, 3 lecture hours, (See also Cultural Studies 7H)

Individual Study

Change: repeats

effective Fall 2013

49 (Course Title to be Selected), 1-3 units, minimum of 54 hours required per unit

Interior Design (INTRDSN)

Change: advisory

effective Spring 2013

7 Interior Design, 3 units, 3 lecture hours, 1 lab hour, (Formerly Home Economics 7 and 20)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.

Journalism (JOURN)

Change: C-ID designation

**1 Introduction to Mass Communication, 3 units, 3 lecture hours
(C-ID JOUR 100)**

Change: C-ID designation

- 3 Newswriting, 3 units, 2 lecture hours, 3 lab hours**
(C-ID JOUR 110)

Change: repeats, C-ID designation**effective Fall 2013**

- 4 Writing for the College Newspaper, 3 units, 2 lecture hours, 3 lab hours**
(C-ID JOUR 130)

Change: repeats**effective Fall 2013**

- 5 Newspaper Production, 3 units, 2 lecture hours, 3 lab hours**

Change: repeats**effective Fall 2013**

- 6 Magazine Production, 3 units, 2 lecture hours, 3 lab hours**

New Course**effective Spring 2013**

- 11A Beginning Media Writing Practicum, 3 units, 2 lecture hours, 3 lab hours**

Advisory: Journalism 3.

Students practice and refine beginning newsgathering, reporting, persuasion and writing skills by working as staff members on the college newspaper and other print and online student publications; focus of study is on basic news, feature and opinion stories. (C-ID JOUR 130) (A, CSU)

New Course**effective Spring 2013**

- 11B Intermediate Media Writing Practicum, 3 units, 2 lecture hours, 3 lab hours**

Prerequisite: Journalism 11A.

Students practice and refine intermediate newsgathering, reporting, persuasion and writing skills by working as staff members on the college newspaper and other print and online student publications. Focus of study is on specialized and in-depth news, feature and opinion stories. (C-ID JOUR 130) (A, CSU)

New Course**effective Spring 2013**

- 11C Advanced Media Writing Practicum, 3 units, 2 lecture hours, 3 lab hours**

Prerequisite: Journalism 11B.

Students practice and refine advanced news gathering, reporting, persuasion and writing skills by working as staff members on the college newspaper and other print and online student publications. The focus of study is on investigative and enterprise news stories and series, and related opinion articles. (C-ID JOUR 130 and JOUR 131) (A, CSU)

New Course**effective Fall 2013**

- 11D Editorial Leadership, 3 units, 2 lecture hours, 3 lab hours**

Prerequisite: Journalism 11C or relevant experience as determined by the instructor.

Producing the Rampage, print and online version; leadership positions on The Rampage and TheRampageOnline.com; and specialized workshops. (C-ID JOUR 130) (A, CSU)

New Course**effective Spring 2013**

- 12 Online Newspaper Staff, 3 units, 2 lecture hours, 3 lab hours. Advisory:** Journalism 3.

Production of the online version of the college newspaper, the Rampage. Discussion and criticism by staff of the publication. Students will get practical experience in writing for an online publication, including using digital photography, video and audio clips for story enhancement. The course prepares students for future print and electronic media work. (A, CSU)

New Course**effective Fall 2013**

- 13 Advanced Reporting and Writing, 3 units, 2 lecture hours, 3 lab hours**

Advisory: Journalism 3.

Advanced reporting and news gathering techniques; emphasis on interviewing and research skills; investigative, special assignment and online reporting. (C-ID JOUR 210) (A, CSU)

New Course**effective Fall 2013**

- 14 Multimedia Reporting, 3 units, 2 lecture hours, 3 lab hours**

Advisory: Journalism 3.

Integrate print and broadcast techniques to produce multimedia pieces for the web and other electronic media. Multimedia storytelling incorporating writing, digital photography, video, audio and animation. (C-ID JOUR 120) (A, CSU)

Change: repeats**effective Fall 2013**

- 19 Work Experience (Cooperative), Occupational, 1-8 units**

Laboratory Assistant*Change: repeats**effective Fall 2013*

159 Laboratory Assistant, 1 unit, 3 lab hours

Learning Assistance (LA)*Change: repeats**effective Fall 2013*

1 Tutor Training, 1 unit, 1 lecture hour, 1 lab hour

Marketing (MKTG)*Change: cross-listing**effective Fall 2013*

10 Principles of Marketing, 3 units, 3 lecture hours

*Change: cross-listing**effective Fall 2013*

11 Salesmanship, 3 units, 3 lecture hours

*Change: cross-listing**effective Fall 2013*

14 Retailing, 3 units, 3 lecture hours

*Change: advisory**effective Spring 2013*

17 Visual Merchandising, 3 units, 2 lecture hours, 2 lab hours, (See also Fashion Merchandising 28)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.*Change: repeats**effective Fall 2013*

19 Work Experience (Cooperative), Occupational, 1-8 units

*Change: cross-listing**effective Spring 2013*

22 Introduction to Fashion Merchandising, 3 units, 3 lecture hours, (See also Fashion Merchandising 27)

Mathematics (MATH)*Change: C-ID Designation*

5A Mathematical Analysis I, 5 units, 5 lecture hours

(C-ID MATH 210 and MATH 900S = MATH 5A + MATH 5B)

Change: C-ID Designation

5B Mathematical Analysis II, 4 units, 4 lecture hours

(C-ID MATH 900S = MATH 5A + MATH 5B)

*Change: prerequisite**effective Spring 2013*

102 Plane Geometry, 3 units, 3 lecture hours, (Formerly Mathematics 2)

Prerequisite: Mathematics 201 or equivalent. **Advisory:** English 125 and 126 or English as a Second Language 67 and 68 recommended..*Change: prerequisite**effective Spring 2013*

103 Intermediate Algebra, 5 units, 5 lecture hours, (Formerly Mathematics 3)

Prerequisite: Mathematics 201 or equivalent. **Advisory:** English 125 and 126 or English as a Second Language 67 and 68 recommended.*Change: number**effective Spring 2013*

201 Elementary Algebra, 5 units, 5 lecture hours, (Formerly Mathematics 1 and 101)

*Change: prerequisite, description**effective Spring 2013*

250 College Arithmetic, 3 units, 3 lecture hours, (Formerly Mathematics 50)

Prerequisite: Mathematics 260B or equivalent or appropriate placement score. **Advisory:** English 125 and 126 or English as a Second Language 67 and 68 recommended.

Arithmetic operations of common fractions and decimal fractions; ratio and proportions; percents; order of operations; the metric system; word problems and applications of arithmetic. Designed as a quick refresher of college arithmetic.

*Change: description**effective Spring 2013*

255 Pre-Algebra, 5 units, 5 lecture hours, (Formerly Mathematics 55)

Prerequisite: Mathematics 250 with a minimum grade of "C" or Mathematics 260D or a test score to place out of or above Mathematics 260D. **Advisory:** English 125 and 126 or English as a Second Language 67 and 68 recommended.

Designed to increase the student success in Elementary Algebra; ideal for students who have math anxiety or who do not feel ready for the fast pace of Mathematics 201. An introduction to selected topics that are often difficult for Mathematics 201 students (e.g., signed numbers, simplification, equations, word problems, factoring, and graphing).

Change: repeats **effective Fall 2013**
277 Arithmetic for the Learning Disabled, 2 units, 6 lab hours, (Pass/No Pass), (Formerly Mathematics 77)

Medical Assisting (MA)

Change: advisory **effective Spring 2013**

2 Pharmacology, 3 units, 3 lecture hours

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: repeats **effective Fall 2013**

19 Work Experience (Cooperative), Occupational, 1-8 units

Military Science (MILSC)

Change: repeats **effective Fall 2013**

50A Freshman Leadership Laboratory, 1 unit, 3 lab hours

Change: repeats **effective Fall 2013**

50B Sophomore Leadership Laboratory, 1 unit, 3 lab hours

Music (MUS)

Change: repeats **effective Fall 2013**

10B Intermediate/Advanced Jazz Improvisation, 2 units, 1 lecture hour, 3 lab hours

Change: repeats **effective Fall 2013**

21 Beginning Piano: Level II, 2 units, 1 lecture hour, 3 lab hours, (Formerly Music 20B)

Change: repeats **effective Fall 2013**

25 Elementary Voice: Level II, 1 unit, 1 lecture hour, 1 lab hour, (Formerly Music 25B)

Change: repeats **effective Fall 2013**

28 Beginning Guitar: Level II, 2 units, 1 lecture hour, 2 lab hours, (Formerly Music 28B)

Change: repeats **effective Fall 2013**

36 Women's Chorale, 2 units, 1 lecture hour, 2 lab hours

Change: repeats **effective Fall 2013**

39 Opera and Musical Theatre Workshop, 2 units, 1 lecture hour, 3 lab hours, (Pass/No Pass), (Formerly Music 27)

New Course **effective Fall 2013**

39A Baroque/Classical Opera, 2 units, 1 lecture hour, 3 lab hours

Advisory: Music 26 or the equivalent as determined by audition recommended.

The rehearsal, study, and performance of scenes and complete shows from the Baroque and Classical periods. (A, CSU)

New Course **effective Fall 2013**

39B Romantic and Modern Opera, 2 units, 1 lecture hour, 3 lab hours

Advisory: Music 26 or the equivalent as determined by audition recommended.

The study, rehearsal, and performance of major Romantic and Modern operatic works. (A, CSU)

New Course **effective Fall 2013**

39C Classical Musical Theatre, 2 units, 1 lecture hour, 3 lab hours

Advisory: Music 26 or the equivalent as determined by audition recommended.

The study, rehearsal, and performance of classic musical theatre, review, or operetta. (A, CSU)

- New Course** **effective Fall 2013**
39D Contemporary Opera and Musical Theatre, 2 units, 1 lecture hour, 3 lab hours
Advisory: Music 26 or the equivalent as determined by audition recommended.
The study, rehearsal, and performance of contemporary opera and/or musical theatre. Performance of new original works is included. (A, CSU)
- Change: repeats** **effective Fall 2013**
47 Jazz Combo, 2 units, 1 lecture hour, 3 lab hours
- New Course** **effective Fall 2013**
47A Jazz Combo: New Orleans, Swing and Bop, 2 units, 1 lecture hour, 3 lab hours
Advisory: Ability to perform on an instrument or voice at college level. Music 10A or 10B recommended.
Performance and analysis of New Orleans, Swing and Bop jazz literature for the small jazz combo. Designed for the music major and the commercial music student. (A, CSU)
- New Course** **effective Fall 2013**
47B Jazz Combo: Cool and Mainstream, 2 units, 1 lecture hour, 3 lab hours
Advisory: Ability to perform on an instrument or voice at college level. Music 10A or 10B recommended.
Study and performance of Cool and Mainstream jazz literature for the small ensemble. Participation in concerts and festivals required. (A, CSU)
- New Course** **effective Fall 2013**
47C Jazz Combo: Modern and Fusion, 2 units, 1 lecture hour, 3 lab hours
Advisory: Ability to perform on an instrument or voice at college level. Music 10A or 10B recommended.
Study and performance of Modern and Fusion jazz literature for the small ensemble, with emphasis on original compositions. Participation in concerts and festivals required. (A, CSU)
- New Course** **effective Fall 2013**
47D Jazz Combo: World music, 2 units, 1 lecture hour, 3 lab hours
Advisory: Ability to perform on an instrument or voice at college level. Music 10A or 10B recommended.
Study and Performance of World Music literature for the small ensemble with emphasis on original compositions. (A, CSU)
- Change: repeats** **effective Fall 2013**
48 Latin Jazz Ensemble, 2 units, 1 lecture hour, 3 lab hours, (See also Chicano-Latino Studies 18)
- Change: repeats** **effective Fall 2013**
49 Advanced Large Ensembles, 1 unit, 3 lab hours
- Change: repeats** **effective Fall 2013**
53 Latin Jazz Workshop, 2 units, 1 lecture hour, 3 lab hours
- New Course** **effective Fall 2013**
54 Afro-Latin Ensemble, 2 units, 1 lecture hour, 3 lab hours
Advisory: Ability to perform on an instrument or voice at college level.
Study and performance of traditional and contemporary music based on shared African and Latin American influences and heritage. Participation in concerts is required. (A, CSU)
- New Course** **effective Fall 2013**
55 Afro-Caribbean Ensemble, 2 units, 1 lecture hour, 3 lab hours
Advisory: Ability to perform on an instrument or voice at college level.
Study and performance of traditional and contemporary music based on shared African and Caribbean influences and heritage. Participation in concerts is required. (A, CSU)
- Change: repeats** **effective Fall 2013**
57 Solo Repertoire Studies I, 1 unit, 3 lab hours
- Change: repeats** **effective Fall 2013**
59 Advanced Chamber Ensembles, 1 unit, 3 lab hours
- Change: repeats** **effective Fall 2013**
63 Chamber Singers, 2 units, 6 lab hours
- Change: repeats** **effective Fall 2013**
64 Vocal Ensemble, 2 units, 6 lab hours

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|------------------------|--|----------------------------|
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 66 | Opera Performance Practices, 2 units, 1 lecture hour, 3 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 67 | Musical Theater Performance Practices, 2 units, 1 lecture hour, 3 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 72 | Jazz Composer's Orchestra, 2 units, 1 lecture hour, 4 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 73A | Intermediate/Advanced Chamber Ensemble (Brass), 1-2 units, 1 lecture hours, 1-3 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 73B | Intermediate/Advanced Chamber Ensemble (Woodwinds), 1-2 units, 1 lecture hours, 1-3 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 73C | Intermediate/Advanced Chamber Ensemble (Strings), 1-2 units, 1 lecture hours, 1-3 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 73D | Intermediate/Advanced Chamber Ensemble (Percussion), 1-2 units, 1 lecture hours, 1-3 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 74A | Intermediate/Advanced Brass Performance Practices, 1-2 units, 1 lecture hour, 1-3 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 74B | Intermediate/Advanced Woodwind Performance Practices, 1-2 units, 1 lecture hour, 1-3 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 74C | Intermediate/Advanced String Performance Practices, 1-2 units, 1 lecture hour, 1-3 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 74D | Intermediate/Advanced Percussion Performance Practices, 1-2 units, 1 lecture hour, 1-3 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 77 | Studio Jazz Combo, 2 units, 1 lecture hour, 3 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 78 | Lab Jazz Combo, 2 units, 1 lecture hour, 3 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 90 | Jazz Composers Workshop, 2 units, 1 lecture hour, 4 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 91 | Jazz Composers Ensemble, 2 units, 1 lecture hour, 4 lab hours | |

Natural Science (NATSCI)

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|---|--|------------------------------|
| <i>Change: advisory, C-ID designation</i> | | <i>effective Spring 2013</i> |
| 1A | Integrated Science: Physics and Chemistry, 4 units, 3 lecture hours, 3 lab hours Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended. (C-ID PHYS 205) | |

Nursing, Registered (RN)

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|------------------------|--|----------------------------|
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 19 | Work Experience (Cooperative), Occupational, 1-8 units | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 105 | Medication Math, 0.5 unit, .5 lecture hour, (Pass/No Pass) | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 107 | Introduction to the Nursing Process, 0.5 unit, .5 lecture hour, (Pass/No Pass) | |

Change: repeats**effective Fall 2013****201 NCLEX-RN Review, 2 units, 2 lecture hours, (Pass/No Pass)****Change: repeats****effective Fall 2013****202 Success Strategies for RN Students, 1 unit, 1 lecture hour, (Pass/No Pass)****Paralegal (PLEGAL)****Change: repeats****effective Fall 2013****19 Work Experience (Cooperative), Occupational, 1-8 units****Change: title, advisory, description****effective Spring 2013****156 Legal Document Processing, 3 units, 2 lecture hours, 2 lab hours, (See also Business & Technology 140), (Formerly Paralegal 56)****Advisory:** Business & Technology 1 or Business & Technology 28 or basic knowledge of a word processing program. Ability to type at least 25 gross words per minute is recommended. Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Producing and formatting business and legal correspondence and documents using a current word processing program. (A)

Philosophy (PHIL)**Change: description, C-ID designation****effective Fall 2013****1A Theories of Knowledge and Reality, 3 units, 3 lecture hours****Prerequisite:** English 1A or equivalent.

An introduction to traditional and contemporary views on the nature of knowledge, truth, and thought; alternative views of God, the universe, and human nature. Develops skills in philosophical analysis and logical thinking. (C-ID PHIL 100) (A, CSU-GE, UC, I)

Change: C-ID designation**1AH Honors Theories of Knowledge and Reality, 3 units, 3 lecture hours, (Formerly Honors 1P)**

(C-ID PHIL 100)

Change: prerequisite**effective Fall 2013****1B Social and Political Philosophy, 3 units, 3 lecture hours****Prerequisite:** English 1A or equivalent.**Change: prerequisite, C-ID designation****effective Fall 2013****1C Ethics, 3 units, 3 lecture hours****Prerequisite:** English 1A or equivalent.

(C-ID PHIL 120)

Change: number, title**effective Fall 2013****2 Critical Reasoning and Analytic Writing, 3 units, 3 lecture hours, (Formerly Philosophy 4)****Change: prerequisite, advisory, description****effective Fall 2013****5 Philosophy of Religion, 3 units, 3 lecture hours****Prerequisite:** Philosophy 1A or 1AH or 2.

The philosophical, critical, scrutiny of some of the issues arising from the monotheistic classical tradition. For example: the nature of God; the existence of God; experience of God; the relation between faith and reason; the problem of evil; free will; immortality. (A, CSU-GE, UC, I)

Change: title, prerequisite, C-ID designation**effective Fall 2013****6 Symbolic Logic, 3 units, 3 lecture hours****Prerequisite:** Mathematics 103.

(C-ID PHIL 210)

Photography (PHOTO)**Course deleted****effective Fall 2013****7 Applied Camera Fundamentals, 1.5 units, 3 lecture hours, (9 weeks)****Change: repeats****effective Fall 2013****12 Photoshop 1: Photoshop for Photographers, 3 units, 2 lecture hours, 3 lab hours, (Formerly Photography 22)**

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|------------------------|--|----------------------------|
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 15 | Photography and Visual Literacy, 3 units, 2 lecture hours, 3 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 18 | Digital Black and White Photography, 3 units, 2 lecture hours, 3 lab hours, (Formerly Photography 20) | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 19 | Work Experience (Cooperative), Occupational, 1-8 units | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 23 | Photoshop 2: Digital Darkroom, 3 units, 2 lecture hours, 3 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 26 | Lighting Principles, 3 units, 2 lecture hours, 3 lab hours, (Formerly Photography 24 and 35) | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 27 | Alternative Photographic Processes, 3 units, 2 lecture hours, 3 lab hours, (Formerly Photography 30, 33, and 40) | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 30 | Editorial Photography, 3 units, 2 lecture hours, 3 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 32 | Commercial Portraiture, 3 units, 2 lecture hours, 3 lab hours, (Formerly Photography 23 and 25) | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 37 | Editorial Portraiture, 3 units, 2 lecture hours, 3 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 40 | Professional Photographic Practices, 3 units, 2 lecture hours, 3 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 45 | Advanced Projects, 3 units, 2 lecture hours, 3 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 47 | Book/Video Publishing, 3 units, 2 lecture hours, 3 lab hours | |

Physical Education (PE)

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|------------------------|--|------------------------------|
| <i>New Course</i> | | <i>effective Spring 2013</i> |
| 45 | Performance Training and Conditioning Techniques for Intercollegiate Athletics, 1-2 units, 2-5 lab hours, (Repeats = 3) Prerequisite: None. Resistance training for intercollegiate athletes. (A, CSU) | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 50 | Adapted Fitness and Flexibility, 1 unit, 1 lecture hour, 1 lab hour | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 51 | Adapted Aquatics, 1 unit, 2 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 52 | Adapted Sports, 1 unit, 2 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 53 | Adapted Strength Training, 1 unit, 2 lab hours | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 54 | Adapted Walking and Conditioning, 1 unit, 1 lecture hour, 1 lab hour | |
| <i>Change: repeats</i> | | <i>effective Fall 2013</i> |
| 55 | Adapted Flexibility and Strength, 1 unit, 1 lecture hour, 1 lab hour | |

Physical Science (PHYSC)

Change: advisory

effective Spring 2013

7 Environmental Science, 3 units, 3 lecture hours, (Formerly Environmental Studies 7)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended.

Change: advisory

effective Spring 2013

11 Introductory Physical Science, 3 units, 3 lecture hours

Advisory: Mathematics 201 and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Change: repeats

effective Fall 2013

42 Applications of Physical Science, 1-3 unit, 1-3 lecture hours, (Pass/No Pass)

Physics (PHYS)

Change: C-ID designation

2A General Physics 1, 4 units, 3 lecture hours, 3 lab hours

(C-ID PHYS 105 and PHYS 100S = PHYS 2A = 2B)

Change: C-ID designation

2B General Physics 2, 4 units, 3 lecture hours, 3 lab hours

(C-ID PHYS 110 and PHYS 100S = PHYS 2A = 2B)

Change: C-ID designation

4A Physics for Scientists and Engineers, 4 units, 3 lecture hours, 3 lab hours

(C-ID PHYS 205)

Political Science (POLSCI)

Change: advisory, description

effective Fall 2013

1 Modern Politics, 3 units, 3 lecture hours

Advisory: Eligibility for English 1A.

An introduction to political science, designed to familiarize students with basic political concepts, political ideologies, political systems, and political science subfields. (A, CSU-GE, UC, I)

Change: advisory

effective Fall 2013

2 American Government, 3 units, 3 lecture hours

Advisory: Eligibility for English 1A.

New Course

effective Fall 2013

3 Introduction to Political Theory and Thought, 3 units, 3 lecture hours

Advisory: Eligibility for English 1A.

Examination of various theoretical approaches to politics and of basic political problems and proposed solutions. Analysis of selected political theories and of the relevance of theory to contemporary problems. (A, CSU)

Change: advisory, description

effective Fall 2013

5 Comparative Government, 3 units, 3 lecture hours

Advisory: Political Science 2 and eligibility for English 1A and Mathematics 260D.

Comparative analysis of different kinds of political systems; their history, political institutions, processes and policies; the environments in which they occur and their consequences. (A, CSU-GE, UC, I)

Change: cross-listing, description

effective Fall 2013

24 International Relations, 3 units, 3 lecture hours

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

How nations manage their relations with other nations; their perceptions of themselves and of each other; their use of power to achieve their objectives. Issues facing the U.S. and the world community. (A, CSU, UC)

Change: repeats

effective Fall 2013

25 Model United Nations, 3 units, 3 lecture hours

Change: advisory

effective Fall 2013

110 American Institutions, 3 units, 3 lecture hours, (Formerly Political Science 10)

Advisory: Eligibility for English 125 and 126.

Change: cross-listing, advisory

effective Fall 2013

174 International Relations, 3 units, 3 lecture hours, (Formerly Political Science 74)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Psychology (PSY)

Change: C-ID designation

2 General Psychology, 3 units, 3 lecture hours, (Formerly Psychology 7)
(C-ID PSY 110)

Change: C-ID designation

2H Honors General Psychology, 3 units, 3 lecture hours, (Formerly Honors 7P and Psychology 7H)
(C-ID PSY 110)

Change: C-ID designation

5 Social Psychology, 3 units, 3 lecture hours
(C-ID PSY 170)

Change: C-ID designation

16 Abnormal Psychology, 3 units, 3 lecture hours
(C-ID PSY 120)

Change: C-ID designation

25 Human Sexuality, 3 units, 3 lecture hours
(C-ID PSY 130)

Change: C-ID designation

38 Lifespan Development, 3 units, 3 lecture hours, (See also Child Development 38)
(C-ID PSY 180)

Change: C-ID designation

45 Introduction to Research Methods in Psychology, 3 units, 3 lecture hours
(C-ID PSY 200)

Radiologic Technology (RAD)

Change: prerequisite, corequisite, advisory

effective Spring 2013

1A Fundamental of Radiologic Technology, 6 units, 6 lecture hours

Prerequisite: Admission to the Radiologic Technology Program; Applied Technology 11; Biology 24 or Biology 20 and 22 or Biology 21A and 21B. **Corequisite:** Radiologic Technology 1B, 1C and 1D. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.

Change: prerequisite, corequisite, advisory

effective Spring 2013

1B Basic Radiographic Positioning Laboratory, 1 unit, 3 lab hours

Prerequisite: Admission to the Radiologic Technology Program; Applied Technology 11; Biology 24 or Biology 20 and 22 or Biology 21A and 21B. **Corequisite:** Radiologic Technology 1A, 1C and 1D. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.

Change: units, hours, prerequisite, corequisite, advisory

effective Spring 2013

1C Clinical Orientation Laboratory, 3 units, 8.5 lab hours

Prerequisite: Admission to the Radiologic Technology Program; Applied Technology 11; Biology 24 or Biology 20 and 22 or Biology 21A and 21B. **Corequisite:** Radiologic Technology 1A, 1B and 1D. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.

Change: number, units, weeks, prerequisite, corequisite, advisory

effective Spring 2013

1D Nursing Procedures in Radiologic Technology, 3 units, 3 lecture hours, (Formerly Radiologic Technology 3A)

Prerequisite: Admission to the Radiologic Technology Program; Applied Technology 11; Biology 24 or Biology 20 and 22 or Biology 21A and 21B. **Corequisite:** Radiologic Technology 1A, 1B and 1C. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.

Change: prerequisite

effective Spring 2013

2A Radiation Biology, 6 units, 6 lecture hours

Prerequisite: Radiologic Technology 1A, 1B, 1C and 1D.

- Change: prerequisite* *effective Spring 2013*
2B Advanced Radiographic Positioning Laboratory, 1 unit, 3 lab hours
Prerequisite: Radiologic Technology 1A, 1B, 1C and 1D.
- Change: units, hours, prerequisite* *effective Spring 2013*
2C Clinical Observation Laboratory, 3 units, 8.5 lab hours
Prerequisite: Radiologic Technology 1A, 1B, 1C and 1D.
- Change: prerequisite* *effective Spring 2013*
2D Quality Assurance in Radiologic Technology, 1 unit, 3 lab hours
Prerequisite: Radiologic Technology 1A, 1B, 1C and 1D.
- Change: number, corequisite* *effective Spring 2013*
3 Basic Clinical Radiologic Technology, 7 units, 32 lab hours, (12 weeks), (Formerly Radiologic Technology 3B)
Prerequisite: Radiologic Technology 2A, 2B, 2C, and 2D.
- Change: prerequisite* *effective Spring 2013*
4A Pathology in Radiologic Technology, 2 units, 2 lecture hours
Prerequisite: Radiologic Technology 3. **Corequisite:** Radiologic Technology 4B and 4C.
- Change: units, hours, prerequisite* *effective Spring 2013*
4B Advanced Clinical Radiologic Technology, 12 units, 36 lab hours
Prerequisite: Radiologic Technology 3. **Corequisite:** Radiologic Technology 4A and 4C.
- Change: prerequisite* *effective Spring 2013*
4C Advanced Radiographic Positioning Laboratory – Cranium, 1 unit, 3 lab hours
Prerequisite: Radiologic Technology 3. **Corequisite:** Radiologic Technology 4A and 4B.
- Change: units, hours* *effective Spring 2013*
5B Specialized Clinical Radiologic Technology, 12 units, 36 lab hours
- Course deleted* *effective Spring 2013*
6 Concentrated Clinical Radiologic Technology, 6 units, 40 lab hours, (8 weeks), (Summer only)

Real Estate (RE)

- Change: advisory* *effective Spring 2013*
43 Real Estate Appraisal I, 3 units, 3 lecture hours
Prerequisite: Real Estate 40, or equivalent experience, or hold a real estate salesperson license. **Advisory:** Eligibility for Mathematics 201 recommended.
- Change: advisory* *effective Spring 2013*
44 Real Estate Finance, 3 units, 3 lecture hours, (Formerly Real Estate 54)
Prerequisite: Real Estate 40, or equivalent experience, or hold a real estate salesperson license. **Advisory:** Eligibility for Mathematics 201 recommended.
- Change: advisory* *effective Spring 2013*
48 Real Estate Investment, 3 units, 3 lecture hours, (Formerly Real Estate 58)
Prerequisite: Real Estate 41 or equivalent experience. **Advisory:** Eligibility for Mathematics 201 recommended.

Recreation (REC)

- Change: repeats* *effective Fall 2013*
19 Work Experience (Cooperative), Occupational, 1-8 units
- Change: repeats* *effective Fall 2013*
50 Adapted Recreation and Leisure, 3 units,

Respiratory Care Practitioner (RCARE)

- Change: repeats* *effective Fall 2013*
19 Work Experience (Cooperative), Occupational, 1-8 units

Sociology (SOC)

Change: C-ID designation

1A Introduction to Sociology, 3 units, 3 lecture hours
(C-ID SOCI 110)

Change: C-ID designation

1AH Honors Introduction to Sociology, 3 units, 3 lecture hours
(C-ID SOCI 110)

Change: advisory, C-ID designation

1B Critical Thinking about Social Problems, 3 units, 3 lecture hours
Advisory: English 1A and Sociology 1A or 1AH.
(C-ID SOCI 115)

effective Spring 2013

Change: C-ID designation

2 American Minority Groups, 3 units, 3 lecture hours
(C-ID SOCI 150)

Change: description

5 Sociology of Rape, 3 units, 3 lecture hours, (See also Women's Studies 5)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

A micro and macro overview of rape including the history of rape, a study of what creates a rape culture, social and psychological characteristics and pathology of rapists, sociological impact upon and psychology of the survivor. Includes examination of various forms of sexual assault such as acquaintance rape, marital rape, male rape, gang rape and child sexual assault. The sociological foundation and history of current laws and their execution are also explored. (A, CSU)

effective Fall 2013

Change: description

7 Domestic Violence: Abuse Within the Family, 3 units, 3 lecture hours, (See also Women's Studies 7)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

A micro and macro study of the historical and contemporary problem of domestic violence. Overview of the battered spouse syndrome, characteristics of the survivor and the batterer, therapeutic approaches and development of legislation. Various forms of domestic violence such as child abuse, elder abuse, and violence in same gender relationships are also studied. (A, CSU)

effective Fall 2013

Change: description

14 Sociology of the Mexican American Community, 3 units, 3 lecture hours, (See also Chicano-Latino Studies 14)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Sociological examination of the Chicano-Latino in American society: family, religion, education, social class, gender, and political and social institutions. Emphasis on social problems, social issues, and social change. (A, CSU, UC)

effective Fall 2013

Change: C-ID designation

32 Introduction to Marriage and Family, 3 units, 3 lecture hour
(C-ID SOCI 130)

Special Studies

Change: repeats

47 (Course Title to be Selected), .5-5 units, 0-5 lecture hours, 0-15 lab hours, 9 lecture hour equivalents per ½ unit of credit

effective Fall 2013

Change: repeats

177 (Course Title to be Selected), .5-10 units, 0-10 lecture hours, 0-30 lab hours, 9 lecture hour equivalents per ½ unit of credit, (Formerly Special Studies 77)

effective Fall 2013

Change: repeats

277 (Course Title to be Selected), .1-15 units, 0-15 lecture hours, 0-45 lab hours, 9 lecture hour equivalents per ½ unit of credit, (Formerly Special Studies 77)

effective Fall 2013

Change: repeats

377 (Course Title to be Selected), 1-40 lecture hours, 1-40 lab hours, (Pass/No Pass), (Open Entry/Open Exit), (Formerly Special Studies 77)

effective Fall 2013

Surgical Technology (SURGT)

Change: repeats

103 Surgical Procedures, 3 units, 9 lab hours

effective Fall 2013

Change: repeats

104 Clinical Practicum, 6 units, 18 lab hours

effective Fall 2013

Change: repeats

105 Advanced Clinical Practicum, 6 units, 18 lab hours

effective Fall 2013

Theatre Arts (TA)

Change: repeats

15C Creative Writing: Playwriting, 3 units, 3 lecture hours, (See also English 15C)

effective Fall 2013

Change: C-ID designation

23 Technical Theatre Practicum, 3 units, 1 lecture hour, 6 lab hours
(C-ID THTR 192)

Change: advisory, C-ID designation

25 Stagecraft, 3 units, 3 lecture hours, (Formerly Theatre Arts 34A)

effective Spring 2013

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.

(C-ID THTR 171)

Change: advisory

27A Introduction to Scenic Design, 3 units, 3 lecture hours, 1 lab hour

effective Spring 2013

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.

Change: advisory, C-ID designation

27B Introduction to Lighting Design, 3 units, 3 lecture hours, 1 lab hour

effective Spring 2013

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 recommended.

(C-ID THTR 173)

Change: C-ID designation

28 Introduction to Stage Makeup, 3 units, 2 lecture hours, 3 lab hours, (Formerly Theatre Arts 37)

(C-ID THTR 175)

New Course

29B Advanced Technical Theatre Practicum II, 1 unit, 3 lab hours

effective Fall 2013

Prerequisite: Theatre Arts 29A.

Topics in advanced technical theatre beyond the scope of TA29A. Students may specialize in one or more of the following areas (with instructor approval): Scenery, Properties, Costumes, Make Up, Lighting, Sound, Special Effects. Arranged hours, as part of a Fresno City College stage production may be required. (A, CSU)

Change: C-ID designation

30 Theatre Appreciation, 3 units

(C-ID THTR 111 and C-ID THTR 112)

Change: C-ID designation

31 Theatre History and Dramatic Literature I, 3 units, 3 lecture hour, (Formerly Theatre Arts 32A0)

(C-ID THTR 113)

Change: C-ID designation

36 Costume Design, 3 units, 3 lecture hours, (Formerly Theatre Arts 35A0)

(C-ID THTR 174)

Change: C-ID designation

40 Performance Practicum, 3 units, 2 lecture hours, 12 lab hours, (9 weeks), (Repeats = 3)

(C-ID THTR 191)

Change: C-ID designation

41 **Beginning Acting, 3 units, 3 lecture hours, (Formerly Theatre Arts 31A)**
(C-ID THTR 151)

Change: C-ID designation

43 **Intermediate Acting, 3 units, 3 lecture hours, (Formerly Theatre Arts 31B)**
(C-ID THTR 152)

Change: repeats

44 **Actors Workshop, 3 units, 2 lecture hours, 3 lab hours, (Formerly Theatre Arts 38A and 38B and 38)**

*effective Fall 2013***Change: repeats**

48 **Teasers, 1 unit, .25 lecture hour, 2 lab hours**

*effective Fall 2013***Water Treatment and Distribution (WTD)****Change: advisory**

101 **Basic Water Treatment, 3 units, 3 lecture hours, (Repeats = 3)**

effective Spring 2013

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 201 recommended or permission of the instructor.

Change: repeats

101 **Basic Water Treatment, 3 units, 3 lecture hours**

*effective Fall 2013***Change: repeats**

102 **Advanced Water Treatment, 3 units, 3 lecture hours**

*effective Fall 2013***Change: repeats**

106 **Basic Wastewater Treatment, 3 units, 3 lecture hours**

*effective Fall 2013***Change: repeats**

107 **Advanced Wastewater Treatment, 3 units, 3 lecture hours**

*effective Fall 2013***Change: repeats**

112 **Basic Water Distribution, 3 units, 3 lecture hours**

*effective Fall 2013***Change: repeats**

113 **Advanced Waste Distribution, 3 units, 3 lecture hours**

*effective Fall 2013***Welding Technology (WELD)****Change: advisory, description**

1 **Exploring Welding/Metals, 3 units, 2 lecture hours, 3 lab hours, (Formerly Industrial Education 5)**

effective Spring 2013

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 or Applied Technology 130 recommended.

An introduction to oxyacetylene cutting and shielded metal and gas metal arc welding in the flat and horizontal positions, along with other methods of joining steel together. An emphasis is placed on safety and developing good manipulative skills. (A, CSU)

Change: repeats, advisory, description

2A **Introduction to Welding Technology, 6 units, 4 lecture hours, 6 lab hours**

effective Spring 2013

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 or Applied Technology 130 recommended.

Oxyacetylene cutting, shielded metal arc, gas metal arc (MIG), and gas tungsten arc (TIG) welding. An emphasis on good manipulative welding skills for joining steel, stainless steel and aluminum. Use of various electrodes. An introduction to the electrode and base metal classification system. (A, CSU)

Change: repeats

2B **Advanced Multi-Process Welding, 5 units, 3 lecture hours, 7 lab hours**

*effective Spring 2013***Change: advisory**

3A **Welding Design and Fabrication, 5 units, 3 lecture hours, 7 lab hours**

effective Spring 2013

Prerequisite: Computer Aided Drafting and Design 14 and Welding 2B. **Advisory:** Drafting 12, and eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 or Applied Technology 130 recommended.

Change: repeats **effective Spring 2013**
3B Advanced Welding Design and Fabrication, 5 units, 3 lecture hours, 7 lab hours

Change: repeats, advisory **effective Spring 2013**
4A Heavy Plate, Structural Steel and Welding Certification, 5 units, 3 lecture hours, 7 lab hours
Advisory: Welding 2B or equivalent, Drafting 12, and eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 or Applied Technology 130 recommended.

Change: repeats, advisory **effective Spring 2013**
4B Pipe, Tube Welding and Certification, 5 units, 3 lecture hours, 7 lab hours
Advisory: Welding 2B or equivalent, Drafting 12, and eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 or Applied Technology 130 recommended.

Change: repeats, advisory **effective Spring 2013**
56 Blueprint Reading for Welders, 2 units, 2 lecture hours
Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 201 or Applied Technology 130 recommended.

Wind Turbine Technology (WTT)

Change: repeats **effective Spring 2013**
1 Introduction to Safety in the Utility Wind Turbine Industry, 2.5 units, 2 lecture hours, 1.5 lab hours

Change: repeats **effective Spring 2013**
2 Wind Generation and Electrical Circuits, 2.5 units, 2 lecture hours, 1.5 lab hours

Change: repeats **effective Spring 2013**
3 Wind Turbine System Maintenance and Repair, 2.5 units, 2 lecture hours, 1.5 lab hours

Women's Studies (WSTS)

Change: description **effective Fall 2013**
5 Sociology of Rape, 3 units, 3 lecture hours, (See also Sociology 5)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.
 A micro and macro overview of rape including the history of rape, a study of what creates a rape culture, social and psychological characteristics and pathology of rapists, sociological impact upon and psychology of the survivor. Includes examination of various forms of sexual assault such as acquaintance rape, marital rape, male rape, gang rape and child sexual assault. The sociological foundation and history of current laws and their execution are also explored. (A, CSU)

Change: description **effective Fall 2013**
10 Changing Roles of Women, 3 units, 3 lecture hours

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.
 The traditional and changing roles of women in Western society, including the effects of these roles on women as individuals, in their personal relationships, and their status in society. The contributions and contrasting perspectives of minority/ethnic women are an integral part of the course content. (A, CSU-GE, UC, I)

Change: title, description **effective Fall 2013**
41 African-American Women's Studies, 3 units, 3 lecture hours, (See also African-American Studies 41)

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.
 Analyzes the social, political, and cultural history of African American women in US society from an interdisciplinary perspective including the complex ways that ethnicity, class and gender have shaped African American women's lives and the strategies they have used to empower themselves and their communities. (A, CSU, UC)

Work Experience, General (WKEXP)

Change: repeats **effective Fall 2013**
19 Work Experience (Cooperative), General, 1-3 units