



Catalog 2011-2012

Addendum No.1

The following new or modified curriculum and information was approved by the Chancellor's Office after the printing of the 2011-2012 Catalog. Please attach this addendum to your current catalog.

NEW PROGRAMS

Transfer Preparation Associate in Science

Mathematics Studies for Transfer

Transfer Preparation * (Major Code: 01585)

Mathematics has become essential and pervasive in the workplace. Projections indicate that its use will expand as will the need for more workers with knowledge of college-level mathematics. In today's highly technological society, the study of mathematics has become increasingly important, particularly to computer science. Mathematics is a study that provides a foundation for problem solving and logical reasoning skills. It includes arithmetic, algebra, geometry, trigonometry, calculus, statistics, and computer programming, etc. Mathematics is the science of numbers and their operations, interrelations, combinations, generalizations, and abstractions. In addition to college-level mathematics courses (numbered 100 or above) that will meet the lower-division needs of college transfer students, Southwestern College offers developmental courses consisting of arithmetic through intermediate algebra.

Required Core Courses

MATH 250	Analytic Geometry and Calculus I AND	5
MATH 251	Analytic Geometry and Calculus II AND	4
MATH 252	Analytic Geometry and Calculus III	4

From below, choose a minimum of 6 units with at least 3 units from Group A

(While 3 units are required from Group A, no units are required from Group B. That is, all 6 units can come from Group A)

Group A – Provides Depth of Understanding in Subject Major

MATH 253	Introduction to Differential Equations OR	3
MATH 254	Introduction to Linear Algebra	3

Group B – Expands application of discipline

MATH 119	Elementary Statistics OR	4
MATH 260	Discrete Mathematics OR	3
PHYS 270	Principles of Physics I AND	3
PSYS 271	Principles of Physics Laboratory I	1

Total units 19-20

To earn an associate degree, additional general education and graduation requirements must be completed.

*Students planning to transfer to a four-year college or university should complete courses specific to transfer institution of choice. University requirements vary from institution to institution and are subject to change. Therefore, it is important to verify transfer major preparation and general

education requirements through consultation with a counselor in either the Counseling Center or Transfer Center.

Note: The Mathematics Department recommends that MATH 119 be taken as an elective if it is not chosen from Group B.

Transfer Preparation Associate in Arts

Communication Studies for Transfer

Transfer Preparation * (Major Code: 01475)

Designed to provide students who desire a broad cultural education in the liberal arts and for the major who wishes to transfer to a four-year college or university. Coursework focuses on both theoretical principles of oral communication and practical application in public speaking in formal and informal debates. In addition, the curriculum encourages effective personal growth, citizenship, and social relations.

Required

COMM 104	Public Speaking	3
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List A

6 units required

COMM 160	Argumentation and Debate	3
COMM 174	Interpersonal Communication	3

List B

6 units required

COMM 103	Oral Communication	3
COMM 176	Intercultural Communication	3
COMM 200	Introduction to Mass Communication and Society	3

List C (3-4 units)

Or any single COM course not used for List B

ANTH 102	Cultural Anthropology	3
ENGL 116	Critical Thinking and Composition	4
PSYC 101	General Psychology	3
SOC 101	Introduction to Sociology	3

Total units 18-19

To earn an associate degree, additional general education and graduation requirements must be completed.

*Students planning to transfer to a four-year college or university should complete courses specific to transfer institution of choice. University requirements vary from institution to institution and are subject to change. Therefore, it is important to verify transfer major preparation and general education requirements through consultation with a counselor in either the Counseling Center or Transfer Center.

Associate in Arts

Italian

Transfer Preparation * (Major Code: 01390)

World language courses are intended: 1) to provide required instruction for students majoring in world languages; 2) to meet the world language competency for graduation required by many colleges and universities (e.g., San Diego State University); 3) to afford credit in the humanities for students seeking to meet the general education transfer breadth requirements; and 4) to provide instruction for the student seeking world languages skills for personal development.

First Semester

ITAL 101 Elementary Italian I 5

Second Semester

ITAL 102 Elementary Italian II 5

Third Semester

ITAL 201 Intermediate Italian I 5

Fourth Semester

ITAL 202 Intermediate Italian II 5

Total units **20**

To earn an associate degree, additional general education and graduation requirements must be completed.

**Students planning to transfer to a four-year college or university should complete courses specific to transfer institution of choice. University requirements vary from institution to institution and are subject to change. Therefore, it is important to verify transfer major preparation and general education requirements through consultation with a counselor in either the Counseling Center or Transfer Center.*

Certificate of Achievement

CIS – Web Search Engine Marketer

Career\Technical (Major Code: 02334)

Certificate of Achievement

Builds a marketing strategy to ensure top placement of a website in web searches. Provides hands-on introduction to search engine visibility, including optimization techniques, keywords, trends, and measuring tools. Includes designing for portable devices and using social media.

CIS 123	Web Publishing With Dreamweaver	6
	OR	
CIS 108	PHP (Personal Home Page) and MySQL	6
CIS 124	Web Imaging with Fireworks	6
CIS 152	Using XHTML and CSS to Create Web Pages	2
CIS 162	Web Site Universal Design	2
CIS 255	Web Search Engine Visibility	2
Total units		18

CIS – Web Shopping Cart Developer

Career\Technical (Major Code: 02333)

Certificate of Achievement

Creates dynamic multimedia websites with shopping cart. Uses open-source software to build an online storefront and catalog. Uses effective business practices and design techniques, follows accessibility standards to sell products online to target consumer audiences. Provides hands-on instruction with multimedia equipment, uploading to the web, and quality control testing.

CIS 256	Web Shopping Cart with Advanced Dreamweaver	3
CIS 162	Web Site Universal Design	2
CIS 152	Using XHTML and CSS to Create Web Pages	2
CIS 123	Web Publishing With Dreamweaver	6
CIS 124	Web Imaging with Fireworks	6
Total units		19

PROGRAM MODIFICATIONS

Replace on page 110

Advanced Emission Specialist

Certificate of Achievement

Career/Technical (Major Code: 02766)

Designed to prepare students for Advanced Emission Specialist Technician license that allows an individual to inspect, diagnose, adjust, repair, and certify emission control systems on vehicles subject to the smog check program at licensed stations in all areas of the state.

First Semester

AT 101	Introduction to Basic Automotive Service	3
AT 102	Automotive Science and Basic Mechanics	3
AT 120	Engine Performance I	3
AT 130	Automotive Electrical Systems	3

Second Semester

AT 140	Engine Repair	3
AT 220	Engine Performance II	3
AT 230	Automotive Electronics	3
AT 247	Automotive Emission Systems and Computerized Engine Controls	3

Third Semester

AT 242	Clean Air Car	3
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Total units 27

Replace on page 110

Automotive Performance Systems

Certificate of Achievement

Career/Technical (Major Code: 02765)

AT 101	Introduction to Basic Automotive Service	3
AT 102	Automotive Science and Basic Mechanics	3
AT 120	Engine Performance I	3
AT 220	Engine Performance II	3
AT 242	Clean Air Car	3
AT 247	Automotive Emission Systems and Computerized Engine Control	3

Total units 18

Replace on page 111

Automotive Technology

Certificate of Achievement

Career/Technical (Major Code: 02871)

First Semester

AT 101	Introduction to Basic Automotive Service	3
AT 102	Automotive Science and Basic Mechanics	3
AT 109	Automotive Braking Systems	3
AT 110	Automotive Suspension, Alignment and Steering	3

Second Semester

AT 120	Engine Performance I	3
AT 130	Automotive electrical Systems	3
AT 131	Automotive Heating, Cooling, and Air Conditioning	3
AT 140	Engine Repair	3

Third Semester

AT 220	Engine Performance II	3
AT 230	Automotive electronics	3
AT 234	Automatic Transmission and Transaxles	3
AT 236	Manual Transmission, Transaxles, and Final Drives	3
AT 242	Clean Air Car	3
AT 247	Automotive Emission Systems and Computerized Engine Control	3

Total units 42

Recommended Electives: AT 290, 291, 292, 293

ASE Certification Areas:

- ASE Brakes Certification – AT 109
- ASE Suspension Certification – AT 110
- ASE Engine Performance Certification – AT 120/AT 220
- ASE Automotive Heating and Cooling Air Conditioning Certification – AT 131
- ASE Electrical Systems Certification – AT 130/AT 230
- ASE Engine Repair Certification – AT 140
- ASE Automotive Transmission Certification – AT 234
- ASE Manual Transmissions Certification – AT 236

Certificates of Course Achievement are offered in the following areas: Clean Air Car – AT 242 and Automotive Emission Systems and Computerized Engine Controls – AT 247.

Replace on page 109

Automotive Technology

Associate in Science

Career/Technical (Major Code: 02870)

Based on the National Institute for Automotive Service Excellence Certification Program (ASE). Courses fulfill the needs of beginning and advanced students and those in the field that require upgrading. Prepares students for National ASE Certification exams.

First Semester

AT 101	Introduction to Basic Automotive Service	3
AT 102	Automotive Science and Basic Mechanics	3
AT 109	Automotive Braking Systems	3
AT 110	Automotive Suspension, Alignment and Steering	3

Second Semester

AT 120	Engine Performance I	3
AT 130	Automotive Electrical Systems	3
AT 131	Automotive Heating, Cooling and Air Conditioning	3
AT 140	Engine Repair	3

Third Semester

AT 220	Engine Performance II	3
AT 230	Automotive electronics	3
AT 234	Automatic Transmission and Transaxles	3
AT 236	Manual Transmission, Transaxles, and Final Drives	3
AT 242	Clean Air Car	3
AT 247	Automotive Emission Systems and Computerized Engine Control	3

Total units **42**

Recommended Electives: AT 290, 291, 292, 293

To earn an associate degree, additional general education and graduation requirements must be completed. See page 53.

Replace on page 106

Professional Photography

Certificate of Achievement

Career/Technical (Major Code: 01381)

Prepares individuals to use artistic techniques to effectively communicate ideas and information to business and consumer audiences, and to record events and people, via digital, film, and still photography. Includes instruction in specialized camera and equipment operation, applications to commercial and industrial needs, and business operations.

ART 138	Digital Imaging for Photographers and Production Artists	3
ART 192	Introduction to Digital Imaging	3
ART 205	Beginning Digital Photography	3
ART 207	Studio and Lighting Techniques	3
ART 209	Photography Business Practices	2
ART 210	Portrait Photography	3
ART 211	Editorial and Advertising Photography	3
ART 197	Professional Practices and Portfolio Development for Visual Artists OR	3
Art 290	Cooperative Work Experience in Applied Visual Arts	2-4

Total units **22-24**

Replace on page 196

Legal Office Management – Basic

Certificate of Proficiency

(Note: BUSU 240 was removed due to inactivation therefore this program is now a certificate of proficiency rather than a certificate of achievement)

NEW COURSES

ART 214A. Photography Laboratory Practice I

1 unit

Pass/No Pass Only

Prerequisite: ART 205 or equivalent

Laboratory 3 hours

Offered: Summer

Fee: \$5. Allows photography students who have completed a beginning photography course to practice and review techniques and concepts introduced in photography related classes. [D; CSU]

ART 210L. Portrait Photography Laboratory

1 unit

Pass/No Pass Only

Corequisite: ART 210

Laboratory 3 hours

Offered: Fall, Spring, Summer

Fee: \$5. Allows photography students to practice and review techniques and concepts introduced in Portrait Photography. Provides an opportunity for the student to refine photographic skills beyond normal classroom time. [D; CSU]

ART 215A. Darkroom Photography Laboratory Practice I

1 unit

Pass/No Pass Only

Prerequisite: ART 206 or equivalent

Laboratory 3 hours

Offered: Fall, Spring

Fee: \$5. Allows photography students to practice and review techniques and concepts introduced in photography related classes. Develops a photography portfolio for job application, transfer, or gallery exhibition purposes. [D; CSU]

ESL 29D. Learning English for Academic Purposes 1D

5 units

Grade or Pass/No Pass

Recommended Concurrent Enrollment: ESL 29E

Lecture 5 hours

Offered: Fall, Spring, Summer

Offers first semester of ESL. Emphasizes accelerated language development of academic English for English language learners. Focuses on intensive practice in academic writing, critical thinking, and speaking around a single content-based theme at a novice-mid level of English proficiency. [ND]

ESL 29E. Learning English for Academic Purposes 1E

5 units

Grade or Pass/No Pass

Recommended Concurrent Enrollment: ESL 29D

Lecture 5 hours

Offered: Fall, Spring, Summer

Offers first semester of ESL. Emphasizes accelerated language development of academic English for English language learners. Focuses on intensive practice in academic writing, critical thinking, and speaking around a single content-based theme at a novice-mid level of English proficiency. [ND]

ESL 39D. Learning English for Academic Purposes 2D

5 units

Grade or Pass/No Pass**Prerequisite:** ESL 29A, ESL 29B, and ESL 29C, or equivalent, or ESL 29D and ESL 29E, or equivalent**Recommended Concurrent Enrollment:** ESL 39E**Lecture 5 hours****Offered:** Fall, Spring, Summer

Offers second semester of ESL. Emphasizes accelerated language development of academic English for English language learners.

Focuses on intensive practice in academic writing, critical thinking, and speaking around a single content-based theme at an intermediate-low level of English proficiency. [ND]

ESL 39E. Learning English for Academic Purposes 2E

5 units

Grade or Pass/No Pass**Prerequisite:** ESL 29A, ESL 29B, and ESL 29C, or equivalent, or ESL 29D and ESL 29E, or equivalent**Recommended Concurrent Enrollment:** ESL 39D**Lecture 5 hours****Offered:** Fall, Spring, Summer

Offers second semester of ESL. Emphasizes accelerated language development of academic English for English language learners.

Focuses on intensive practice in academic writing, critical thinking, and speaking around a single content-based theme at an intermediate-low level of English proficiency. [ND]

ESL 49D. Learning English for Academic Purposes 3D

5 units

Grade or Pass/No Pass**Prerequisite:** ESL 39A, ESL 39B and ESL 39C, or equivalent; or ESL 39D and ESL 39E, or equivalent**Recommended Concurrent Enrollment:** ESL 49E**Lecture 5 hours****Offered:** Fall, Spring, Summer

Offers third semester of ESL. Emphasizes accelerated language development of academic English for English language learners.

Focuses on intensive practice in academic writing, critical thinking, and speaking around a single content-based theme at an intermediate-mid to high level of English proficiency. [ND]

ESL 49E. Learning English for Academic Purposes 3E

5 units

Grade or Pass/No Pass**Prerequisite:** ESL 39A, ESL 39B and ESL 39C, or equivalent; or ESL 39D and ESL 39E, or equivalent**Recommended Concurrent Enrollment:** ESL 49D**Lecture 5 hours****Offered:** Fall, Spring, Summer

Offers third semester of ESL. Emphasizes accelerated language development of academic English for English language learners.

Focuses on intensive practice in academic writing, critical thinking, and speaking around a single content-based theme at an intermediate-mid to high level of English proficiency. [ND]

ES/A 131. Flexibility Fitness I

.5-1 unit

Grade or Pass/No Pass**Lecture 1.5-3 hours****Offered:** Variable

Emphasizes stretching and increased flexibility at a basic skills level.

Designed to lengthen muscles and increase range of motion.

Includes reducing risk of injury, and increased body awareness. (Formerly ES/A 131 ABCD). [D; UC]

ES/A 132. Flexibility Fitness II

.5-1 unit

Grade or Pass/No Pass**Prerequisite:** ES/A 131 or equivalent**Lecture 1.5-3 hours****Offered:** Variable

Emphasizes stretching and increased flexibility at a low-intermediate level. Includes reducing risk of injury, and increased body awareness. (Formerly ES/A 131 ABCD). [D; UC]

ES/A 133. Flexibility Fitness III

.5-1 unit

Grade or Pass/No Pass**Prerequisite:** ES/A 132 or equivalent**Lecture 1.5-3 hours****Offered:** Variable

Emphasizes stretching and increased flexibility at an intermediate level to lengthen muscles and increase motion. Includes reducing risk of injury, and increased body awareness. (Formerly ES/A 131 ABCD). [D; UC]

ES/A 134. Flexibility Fitness IV

.5-1 unit

Grade or Pass/No Pass**Prerequisite:** ES/A 133 or equivalent**Lecture 1.5-3 hours****Offered:** Variable

Emphasizes stretching and increased flexibility at an advanced level, and to lengthen muscles and increase range of motion. Includes reducing risk of injury, and increased body awareness. (Formerly ES/A 131 ABCD). [D; UC]

NC 17

0 units

Lecture 24 hours

Designed for those wanting to complete Community Emergency Response Team Training (CERT) or needing refresher training. Four modules cover an introduction to CERT and its importance to the community: fire safety, hazardous materials and terrorist incidents, disaster medical operations, and search and rescue. [ND]

COURSES CORRECTIONS

Replace on page 269:

ARCH 201. Beginning Building Information Modeling

3 units

[D; CSU]

Replace on page 401:

SES 201. Beginning Building Information Modeling

3 units

[D; CSU]

Replace on page 276:

ART 205. Beginning Digital Photography

3 units

Lecture 2 hours, laboratory 4 hours

Fee: \$15

ART 205L. Beginning Digital Photography Laboratory

1 unit

Fee: \$5

ART 206. Intermediate Digital Photography

3 units

Lecture 2 hours, laboratory 4 hours

Fee: \$15

ART 206L. Intermediate Digital Photography Laboratory

1 unit

Fee: \$5

ART 207. Studio and Lighting Techniques

3 units

Lecture 2 hours, laboratory 4 hours

Fee: \$15

ART 207L. Studio and Lighting Techniques Laboratory

1 unit

Lecture 2 hours, laboratory 4 hours

Fee: \$5

Replace on page 277:

ART 208A. Film and Darkroom Photography I

3 units

Fee: \$15

[D; CSU]

ART 208B. Film and Darkroom Photography II

3 units

Fee: \$15

[D; CSU]

ART 210. Portrait Photography I

3 units

Fee: \$15

ART 211. Editorial and Advertising Photography

3 units

Fee: \$15

ART 212A. Photographic Alternatives I

3 units

Fee: \$15

ART 212B. Photographic Alternatives II

3 units

Fee: \$15

ART 213 Special Topics in Photography

3 units

Fee: \$15

[D; CSU]

ART 213L Special Topics in Photography

1 unit

Fee: \$5

[D; CSU]

ART 216. Advanced Photography

3 units

Fee: \$15

ART 216L Advanced Photography Laboratory

1 unit

[D; CSU]

Replace on page 282:

AT 247. Automotive Emission Systems and Computerized Engine Controls

3 units

[D; CSU]

Replace on page 328:

ESL 159A. Learning English for Academic Purposes 4C

4 units

[D; CSU]

ESL 159B. Learning English for Academic Purposes 4D

4 units

[D; CSU]

Replace on page 295:

CD 175. Nutrition, Health, and Safety for Children

3 units

Fee: \$30

Replace on page 318:

EMT 112: Emergency Medical Technician – Basic (Theory)

5.5 units

Remove Fee

Replace on page 337:

ES/A 178A. Soccer I

.5-1 unit

[D; CSU; UC]

Replace on page 338:

ES/A 178B. Soccer II

.5-1 unit

[D; CSU; UC]

ES/A 178C. Soccer III

.5-1 unit

[D; CSU; UC]

ES/A 178D. Soccer IV

.5-1 unit

[D; CSU; UC]

Replace on page 346:

FS 108: Fire Department Safety Officer

3 units

[D; CSU]

Replace on page 347:

FS 152: Instructor Training 1A: Psychomotor Lesson Delivery

2 units

[D; CSU]

FS 153: Instructor Training 1B: Cognitive Lesson Delivery

2 units

[D; CSU]

Replace on page 358:

LNT 101. Introduction to Sustainable Energy Studies

3 units

[D; CSU]

Replace on page 387:

PD 116. Student Seminar

2 units

[D; CSU]

Replace on page 391:

PHYS 273. Principles of Physics Laboratory II

1 unit

[D; CSU; UC]

Replace on page 391:

PHYS 275. Principles of Physics Laboratory III

1 unit

[D; CSU; UC]

Replace on page 392:

PIL 220. Intermediate Filipino I

5 units

Prerequisite: PIL 102 or equivalent

Lecture 5 hours

Offered: Variable

Provides an extensive review of all first-year structures. Focuses on interpersonal communication for intermediate students. Covers grammatical structures and vocabulary necessary to discuss personal relations, Filipino society, food, art, and culture. Introduces readings reflecting Filipino worldviews. Equivalent to four years of high school Filipino. [D; CSU; UC]

Replace on page 394:

PSYC 201. Academic and Career Options in Psychology

1 unit

Prerequisite: PSYC 101 or equivalent

Lecture 1 hour

Offered: Fall, Spring, Summer

Explores academic and career options in psychology. Covers information on post-baccalaureate options in psychology and related fields. Fosters the identification of career-related strengths and interests. Introduces topics such as resources in psychology, undergraduate advising and career services. [D; CSU]

Replace on page 400:

SES 101. Introduction to Sustainable Energy Studies

3 units

[D; CSU]

SES 110. Introduction to Building Science

3 units

[D; CSU]

SES 120. The Energy Efficient Building

3 units

[D; CSU]

SES 205. Building Energy Analysis Using BIM

3 units

[D; CSU]

Add to page 33

Course Repetition and Withdrawal Policy

A student may repeat a course in which substandard academic work (D, F or NP grade) was earned. If the student can demonstrate extenuating circumstances requiring one additional repetition, the student may petition. The petition will be evaluated by the Dean of Student Services or Petition Review Committee. Extenuating circumstances are verified cases of accidents, illnesses or other circumstances beyond the control of the student. A student shall not be permitted to receive more than three "W" withdrawal symbols on his or her record for enrollment in the same course. A student who enrolls again in a course after having previously received three "W"s in the same course shall receive a grade. The grade shall be recorded on the student's academic record unless the student withdraws from the course prior to the end of fourth week of instruction. When course repetition and/or course withdrawal occurs, the permanent academic record shall be annotated in such a manner that all student work is transcribed and remains legible, ensuring a true and complete academic history. The Governing Board or its sole designee in collaboration with the Academic Senate shall establish procedures regarding course repetition/course withdrawal as per Policy 2515 the Governing Board-Approved "10+1 Agreement".