



Catalog 2012–2013

Addendum No.1

The following new or modified curriculum and information was approved by the Chancellor's Office after the printing of the 2012-2013 Catalog. Please attach this addendum to your current catalog.

NEW PROGRAMS

Transfer Preparation Associate in Science

Physics for Transfer (SB 1440 Star Act)

Transfer Preparation * (Major Code: 01685)

Physicists are engaged in applying the fundamental principles of science to problems ranging from understanding life processes to exploring the universe. Specializations include mechanics, heat, optics, acoustics, electrodynamics, astrophysics, atomic physics, biophysics, and geophysics.

Required Core

PHYS 270	Principles of Physics I	3
PHYS 271	Principles of Physics Laboratory I	1
PHYS 272	Principles of Physics II	3
PHYS 273	Principles of Physics Laboratory II	1
PHYS 274	Principles of Physics III	3
PHYS 275	Principles of Physics Laboratory III	1
MATH 250	Analytic Geometry and Calculus I	5
MATH 251	Analytic Geometry and Calculus II	4
MATH 252	Analytic Geometry and Calculus III	4

Total units 25

**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.*

Transfer Preparation Associate in Arts

Political Science for Transfer (SB 1440 Star Act)

Transfer Preparation * (Major Code: 01845)

Political Science is the study of the theory and practice of government. Pre-law is the preparation for the study of application of law within the juridical system of government. Public administration is the study of the implementation practices of the governmental agencies and legal bodies. These three departments are closely related through the common interests of the people and in service of the populace either at the local, state, or national level. These departments explore social behavior, customs, rules, and practices within the context of the self-defined common good of the community and the willingness of the members of the community to delegate authority under proscribed conditions to individuals, groups, and agencies. This degree satisfies the requirements of the STAR Act for transfer to the CSU system.

Required Core (3 units)

PS 102	Introduction to American Government and Politics	3
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List A (select three): 9-10 units

PS 101	Introduction to Political Science (3)	
PS 103	Introduction to Comparative Government (3)	
PS 104	Introduction to International Relations (3)	
MATH 119	Elementary Statistics (4)	9-10

OR

SOC/	Statistical Methods of Sociology (3)	
PSYC 270		

List B (select two): 6-7 units

Any courses not selected above, any CSU transferable political science 6 units courses, and/or other courses that are articulated as lower division preparation for the political science major at a CSU, or any CSU transferable introductory course in the social sciences (i.e., articulated as filling CSU GE Area D).

PS 101	Introduction to Political Science (3)	
PS 103	Introduction to Comparative Government (3)	
PS 104	Introduction to International Relations (3)	
MATH 119	Elementary Statistics (4)	6-7

OR

SOC/	Statistical Methods of Sociology (3)	
PSYC 270		

Total units 18-20

**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

Photography and Digital Imaging

Career/Technical * (Major Code: 02350)

Educates students with a sound background in technical skills and theory while increasing their conceptual abilities. Two groups within this program of studies, photographic arts and photography for industry, provide the student with basic aesthetic principles and technical skills needed for entry into the field of professional photography. Students are encouraged to develop critical and aesthetic judgment while achieving technical experience.

First Semester

ART 101	Design 1	3
ART 156	History of Photography	3
ART 192	Introduction to Digital Imaging	3
ART 205	Beginning Digital Photography	3

Second Semester

ART 206	Intermediate Photography	3
ART 207	Studio and Lighting Techniques	3

Third Semester

Complete 5-7 units from Photography Electives	5-7
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Fourth Semester

ART 216	Advanced Photography	3
Complete 2-4 units from Photography Electives	2-4	

Total units 28-32

Photography Electives: ART 137, 138, 197, 208A, 209, 210, 211, 212A, 213, 290.

Recommended Electives: ART 116, 117, 130, ART/TELE 131, ART 151, 157, 159, 161, 205L, 206L, 207L, 210L, 211L, 213L, 214A, 215A, 216L, BUS 149.

It is recommended to wait until the fourth semester before taking ART 290 in order to have the skills and experience necessary for most applied arts internships.

Suggested courses prepare students for fine-art photography: Art 138, Art 197, Art 208A, Art 210, and Art 212A.

Suggested courses prepare students for commercial, editorial, and advertising photography: Art 137, Art 138, Art 209, Art 210, Art 211, Art 213, and Art 290

To earn an associate degree, additional general education and graduation requirements must be completed. See page 51.

Certificate of Proficiency

Sales and Customer Service Professional

Career/Technical (Major Code: 02175)

Certificate of Proficiency

Designed for students desiring to enter or refresh their skills in the field of sales and customer service. Provides training that is required for employment in businesses, institutions, and organizations of all types and that can help present employees to take advantage of opportunities to upgrade to higher level positions.

BUS 96	Customer Service and Communication Techniques	1
BUS 134	eBusiness I: Principles of Electronic Commerce (3)	3
OR		
BUS 191	Creating and Managing a Virtual Office (3)	3
BUS 139	Consumer Retailing and Merchandising	1
BUS 144	Advertising and Promotional Strategy	1
BUS 147	Successful Selling Techniques	1
LDR 148	Business Presentation Skills-Bilingual (2) (English/Spanish)	2
OR		
LDR 149	Business Presentation Skills (2)	2
BUS 210	Business English	3

Total units 12

(The above certificate should be placed under International Business, Higher Education Center at Otay Mesa on page 181.)

PROGRAM MODIFICATIONS

Replace on page 99

Associate in Science

Architecture

Transfer Preparation (Major Code: 01940)

Designed to provide the student with the creative problem-solving skills and critical thinking processes necessary to successfully complete upper-division baccalaureate work leading to the professional bachelor of architecture degree.

The curriculum is articulated to Cal Poly, San Luis Obispo and fulfills most of the first and second year requirements at Cal Poly, Pomona; UC Berkeley, the New School of Architecture, San Diego State, and other baccalaureate institutions.

Academic placement at the transfer institution is based upon evaluation of a portfolio of the student's work. Students will be required to develop a portfolio of their work for purposes of evaluation by the transfer institution.

The courses listed are the architecture courses required to obtain the associate degree in architecture. Students wishing to transfer to the California State University should follow, General Education Breadth Requirement California State University. Students should review specific course requirements of the transfer institution and consult with a counselor as to which courses taken at Southwestern College will articulate to their chosen college.

First Semester

ARCH 110	Freehand Drawing	3
ARCH 115	Architectural Graphics	3
ARCH 150	Architectural Design I	5

Second Semester

ARCH 112	Architectural Rendering	3
ARCH 151	Architectural Design II	3
ARCH 165	Architectural Practice I	2

Third Semester

ARCH 200	Introduction to Computer Aided Design (3)	3
	OR	
ARCH/ SES 201	Beginning Building Information (3)	
ARCH 235	Structures	3
ARCH 252	Architectural Design III	3
ARCH 265	Architectural Practice II	2

Fourth Semester

ARCH 222	Environmental Controls	2
ARCH 253	Architectural Design IV	3
ARCH 266	Architectural Practice III	2

Total units **37**

Recommended Electives

ARCH 114	Advanced Architectural Rendering	3
ARCH 205	Advanced Architectural CAD	3
ARCH 210	World Architecture II	3

To earn an associate degree, additional General education and Graduation Requirements must be completed.

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Replace on page 100

Associate in Science

Architecture Technology

Career/Technical (Major Code: 02840)

Designed to provide the student with the skills and technical knowledge required for employment as technicians in the environmental design departments of architecture, landscape architecture, urban planning, and environmental research. Students also are placed within the building construction industry and its allied professions.

First Semester

ARCH 110	Freehand Drawing	3
ARCH 115	Architectural Graphics	3
ARCH 150	Architectural Design I	5

Second Semester

ARCH 112	Architectural Rendering	3
ARCH 151	Architectural Design II	3
ARCH 165	Architectural Practice I	2

Third Semester

ARCH 200	Introduction to Computer Aided Design (3)	3
	OR	
ARCH/ SES 201	Beginning Building Information (3)	
ARCH 265	Architectural Practice II	2
ARCH 235	Structures	3

Fourth Semester

ARCH 209	Construction Surveying	3
ARCH 210	World Architecture II	3
ARCH 222	Environmental Controls	2
ARCH 266	Architectural Practice III	2

Total units **37**

To earn an associate degree, additional general education and graduation requirements must be completed. See page 51.

Replace on page 100

Architecture Technology—Basic

Certificate of Achievement

Career/Technical (Major Code: 02842)

First Semester

ARCH 110	Freehand Drawing	3
ARCH 115	Architectural Graphics	3
ARCH 150	Architectural Design I	5

Second Semester

ARCH 112	Architectural Rendering	3
ARCH 151	Architectural Design II	3
ARCH 165	Architectural Practice I	2

Third Semester

ARCH 200	Introduction to Computer Aided Design (3)	3
OR		
ARCH/ SES 201	Beginning Building Information (3)	
ARCH 265	Architectural Practice II	2
ARCH 235	Structures	3

Fourth Semester

ARCH 209	Construction Surveying	3
ARCH 210	World Architecture II	3
ARCH 222	Environmental Controls	2
ARCH 266	Architectural Practice III	2

Total units **37**

Replace on page 101

Architecture Technology—Advanced

Certificate of Achievement

Career/Technical (Major Code: 02841)

First Semester

ARCH 110	Freehand Drawing	3
ARCH 115	Architectural Graphics	3
ARCH 150	Architectural Design I	5

Second Semester

ARCH 112	Architectural Rendering	3
ARCH 151	Architectural Design II	3
ARCH 165	Architectural Practice I	2

Third Semester

ARCH 200	Introduction to Computer Aided Design (3)	3
OR		
ARCH/ SES 201	Beginning Building Information (3)	
ARCH 265	Architectural Practice II	2
ARCH 235	Structures	3

Fourth Semester

ARCH 209	Construction Surveying	3
ARCH 210	World Architecture II	3
ARCH 222	Environmental Controls	2
ARCH 266	Architectural Practice III	2

Additional Courses

ARCH 114	Advanced Architectural Rendering	3
ARCH 205	Advanced Architectural CAD	3

Total units **43**

Replace on page 106

Psychology

Transfer Preparation * (Major Code: 01850)

Designed to serve several goals: to expose students to the variety of subfields in psychology; to engender knowledge of and appreciation for the spirit and nature of scientific inquiry; to facilitate insight into oneself and increase knowledge of and sensitivity to others; and to introduce students to the basic body of knowledge, thus preparing them for further study in psychology as a transfer major.

PSYC 101	General Psychology	3
PSYC 211	Learning	3
PSYC 230	Developmental Psychology	3
PSYC 260	Introduction to Physiological Psychology	3
PSYC/ SOC 270	Statistical Methods of Psychology (3)	3-4
OR		
MATH 119	Elementary Statistics (4)	3-4
Complete 3-4 units from electives		3-4
Total units		18-20

Electives: BIOL 100 and 101, 130, 180 190

To earn an associate degree, additional general education and graduation requirements must be completed. See page 51.

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Replace on page 193

Legal Interpretation—Basic (English/Spanish)

Certificate of Proficiency (Major Code: 02449)

Designed for students desiring careers as interpreters in the legal field. Provides skills required for employment in government and the courts, as well as in public and private offices.

BUS 181	Spanish Computer Skills for Interpretation/Translation	3
BUS 210	Business English	3
BUS 226	Interpretation and Translation: Legal	3
BUS 229	Legal Terminology-Bilingual (English/Spanish)	3
*SPAN 215	Spanish for Bilinguals I	5
Complete 3 units from electives		3
Total units		20

Electives: BUS 225, 233, 227, MEDOP 229.

*Students who have completed high school or a higher-level degree in a Spanish-speaking country may waive the Spanish language requirement by submitting a transcript of studies from their foreign institution.

Replace on page 130

Computer Aided Design and Drafting—

Basic

Certificate of Proficiency (Major Code: 02569)

A basic certificate in CAD provides the student an opportunity to learn fundamental skills that are used in the mechanical engineering and product design and modification.

CAD 220	Introduction to CADD/CAM Systems	3
CAD 222	CAD Mechanical Design I	3
CAD 223	CAD Detailing and Dimensioning	3
CAD 224	CAD Mechanical Design II	3
CAD 230	Introduction to Solidworks	2.5
ENGR 110	Engineering Design and Graphics	3

Total units **17.5**

PROGRAM CORRECTIONS

Replace on page 230:

Operating Room Nursing

Certificate of Proficiency (Major Code: A2361)

Replace on page 190:

Law Enforcement Training Academy

Certificate of Achievement (Major Code: 02711)

AJ 42	Basic Police Academy II	12.5
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COURSES CORRECTIONS

Replace on page 323:

EMT 113L. Emergency Medical Technician Laboratory—Basic

3 units

Fee: \$40.

Replace on page 278:

ART 192L. Introduction to Digital Imaging Laboratory

1 unit

Fee: 0

Replace on page 411:

SES 120. The Energy Efficient Building

3 units

Grade or Pass/No Pass

SES 201. Introduction to Sustainable Energy Studies

3 units

Grade or Pass/No Pass

Add on page 355:

FS 145. Fire Management I (Supervision)

2 units

Designed to prepare or enhance the first line supervisor's ability to supervise subordinates. Introduces key management concepts and practices utilized in the California Fire Service. Includes discussions about decision making, time management, leadership styles, personnel evaluations, and counseling guidelines. [D; CSU]

Replace on page 385:

MUS 111. Aural Skills I

1 unit

Lecture 1 hour, laboratory 1 hour

MUS 113. Aural Skills II

1 unit

Lecture 1 hour, laboratory 1 hour

MUS 114. Aural Skills III

1 unit

Lecture 1 hour, laboratory 1 hour

MUS 115. Aural Skills IV

1 unit

Lecture 1 hour, laboratory 1 hour