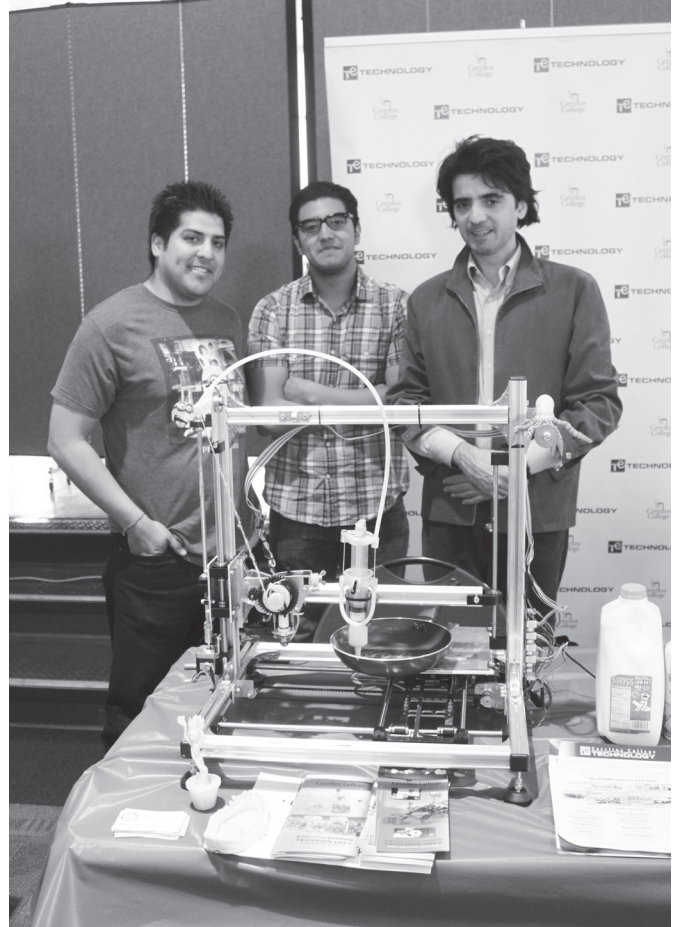


# Addendum



CATALOG  
2015-2016

## **CERTIFICATES/ DEGREES MODIFICATIONS**



**ASSOCIATE DEGREE PROGRAMS, CERTIFICATES OF ACHIEVEMENT, TRANSFER AND VERIFICATIONS OF COMPLETION**

Biology ..... 4

Botany..... 4

Geography ..... 4

Geology..... 4

Global Studies ..... 5

Microbiology..... 5

Network/Systems Administration ..... 5

Physical Education ..... 5,6,7

Zoology..... 7

## BIOLOGY

### ASSOCIATE OF ARTS DEGREE

#### REQUIRED COURSES

	UNITS
BIOL 120 Introduction to Biological Science	4
BIOL 200 Principles of Biology	5
BIOL 201 Principles of Biology	5
CHEM 111 General Chemistry	5
CHEM 112 General Chemistry	5

#### Select one of the following two courses:

MATH 116 Calculus for Managerial, Biological, and Social Sciences	4
or MATH 170 Analytic Geometry and Calculus I	(4)

TOTAL ASSOCIATE OF ARTS DEGREE REQUIREMENTS 28

#### ASSOCIATE OF ARTS DEGREE REQUIREMENTS:

Completion of a minimum of 60 semester units to include (1) the courses listed above, (2) the AA degree general education requirements, and (3) a grade of "C" or better in all courses required by major.

## BOTANY

### ASSOCIATE OF ARTS DEGREE

#### REQUIRED COURSES

	UNITS
BIOL 120 Introduction to Biological Science	4
BIOL 200 Principles of Biology	5
BIOL 201 Principles of Biology	5
BOT 120 Introduction to Plant Science	4
CHEM 111 General Chemistry	5
CHEM 112 General Chemistry	5

#### Select one of the following two courses:

MATH 116 Calculus for Managerial, Biological, and Social Sciences	4
or MATH 170 Analytic Geometry and Calculus I	(4)

TOTAL ASSOCIATE OF ARTS DEGREE REQUIREMENTS 32

#### ASSOCIATE OF ARTS DEGREE REQUIREMENTS:

Completion of a minimum of 60 semester units to include (1) the courses listed above, (2) the AA degree general education requirements, and (3) a grade of "C" or better in all courses required by major.

## GEOGRAPHY

### ASSOCIATE IN ARTS IN GEOGRAPHY FOR TRANSFER (AA-T)

#### REQUIRED CORE: (7 UNITS)

	UNITS
GEOG 101 Physical Geography	3
GEOG 101L Physical Geography Laboratory	1
GEOG 102 Natural and Cultural Geography	3

#### LIST A: SELECT 6 – 8 UNITS

	UNITS
GEOG 105 World Regional Geography	3
GEOG 140 California Geography	3
ESCI 106 Weather and Climate	3
GEOG 160 Field Studies in Geography	2

#### LIST B: SELECT 6 – 8 UNITS

	UNITS
Any course from LIST A not already used.	
GEOG 103 Environmental Geography	3
MATH 112 Elementary Statistics	4
MATH 170 Analytic Geometry and Calculus I	4
BIOL 120 Introduction to Biological Science	4
ANTH 100 Cultural Anthropology	3
GEOL 102 Physical Geology Lecture	3

TOTAL UNITS FOR THE MAJOR 19-23

#### ASSOCIATE IN ARTS IN GEOGRAPHY FOR TRANSFER REQUIREMENTS:

(1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following: (a) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements. (b) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district. (2) Obtainment of a minimum grade point average of 2.0. (3) Also required is that students must earn a "C" or better in all courses required for the major.

## GEOLOGY

### ASSOCIATE IN SCIENCE IN GEOLOGY FOR TRANSFER (AS-T)

#### REQUIRED CORE: (26 UNITS)

	UNITS
GEOL 101 Physical Geology	4
or GEOL 102 Physical Geology Lecture	(3)
and GEOL 102L Physical Geology Laboratory	(1)
GEOL 201 Earth History	4
CHEM 111 General Chemistry	5
CHEM 112 General Chemistry	5
MATH 170 Analytic Geometry and Calculus I	4
MATH 190 Analytic Geometry and Calculus II	4

TOTAL UNITS FOR THE MAJOR: 26

#### ASSOCIATE IN SCIENCE IN GEOLOGY FOR TRANSFER REQUIREMENTS:

(1) 60 semester or 90 quarter CSU-transferable units. (2) the California State University-General Education-Breadth pattern (CSU GE-Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern. (3) a minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district. (4) obtainment of a minimum grade point average (GPA) of 2.0. earn a grade of C or better in all courses required for the major or area of emphasis

## GLOBAL STUDIES

### CERTIFICATE OF ACHIEVEMENT

<b>Core Requirements</b>	<b>15 units</b>
<b>Division Option Requirements (select one option)</b>	<b>9 units</b>
<b>Total Certificate Requirements</b>	<b>24 units</b>

#### CORE REQUIREMENTS (15 units)

ANTH 100	Cultural Anthropology	3.0
ECON 201	Principles of Macroeconomics	3.0
GEOG 105	World Regional Geography	3.0
HIST 275	Global Studies	3.0
POL 210	International Relations	3.0

#### DIVISION REQUIREMENTS (9 units) – Select one option

##### Political-Economic Option (select three courses)

BA 101	International Business	3.0
ECON 102	Women in Global Economy	3.0
HIST 246	World Civilization from 1500 to Present	3.0
POL 220	Comparative Government	3.0
POL 230	Contemporary Political Issues: Middle East	3.0

##### Socio-Cultural Option (select three courses)

ANTH 170	Introduction to Language and Culture	3.0
HUM 100	The Art of Being Human	3.0
PHIL 200	World Religions	3.0
SOC 215	Sociology of Cultural Diversity: Challenge and Change	3.0
SPCH 110	Intercultural Communication	3.0

NOTE: One year of Foreign Language study is recommended

TOTAL CERTIFICATE REQUIREMENTS	24
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## MICROBIOLOGY

### ASSOCIATE OF ARTS DEGREE

#### REQUIRED COURSES

BIOL 200	Principles of Biology	5
BIOL 201	Principles of Biology	5
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
MICR 200	Principles and Applications of Microbiology	5

TOTAL ASSOCIATE OF ARTS DEGREE REQUIREMENTS	25
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#### ASSOCIATE OF ARTS DEGREE REQUIREMENTS:

Completion of a minimum of 60 semester units to include (1) the courses listed above, (2) the AA degree general education requirements, and (3) a grade of "C" or better in all courses required by major.

## COMPUTER AND INFORMATION SCIENCES: NETWORK/SYSTEMS ADMINISTRATION

### CERTIFICATE OF ACHIEVEMENT

#### REQUIRED COURSES

		UNITS
CIS 170A	Networking Fundamentals	3.5
CIS 170B	Network+ Certification	3.5
CIS 170E	Router Configurations and Protocol	3.5
CIS 170F	Advanced Switching and Routing	3.5
CIS 170G	Wide Area Networks	3.5
CIS 170H	TCP/IP Fundamentals	3
CIS 200A	Apple Mac OS Support Essentials	3.5
CIS 212	Introduction to Microsoft Windows Administration	3.5

CIS 213F	Microsoft Windows Server Administration	3.5
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CIS 214	Unix and Linux Operating Systems	3
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#### Choose 3.5 units from the following courses:

CIS 103	Computer Programming Logic	3.5
CIS 170L	Cybersecurity Fundamentals	3.5

TOTAL CERTIFICATE REQUIREMENTS	37.5
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## PHYSICAL EDUCATION

### ASSOCIATE OF ARTS DEGREE REQUIREMENTS

In order to qualify for an A.A. degree in Physical Education the following requirements must be met:

- 1) Completion of the A.A. degree general education and proficiency requirements;
- 2) Completion of a minimum of 60 degree applicable units;
- 3) Completion of at least 25 units of physical education coursework from the following;

a. Required Core Courses	16/20/22	Units
b. Required Activity Courses	6	Units
c. Required PE Elective Courses	3	Units

See Cerritos College Graduation Requirements.

#### REQUIRED CORE COURSES

		UNITS
KIN 100	Introduction to Kinesiology	3
KIN 102	Introduction to Athletic Training	3
KIN 104	Fitness and Wellness	3
HED 110	Community First Aid and CPR	3
A&P 120	Introduction to Human Anatomy and Physiology	4
or A&P 150	Introduction to Human Anatomy	(4)
and A&P 151	Introduction to Human Physiology	(4)
or A&P 200	Human Anatomy	(5)
and A&P 201	Human Physiology	(5)

(A&P 150 & 151 or A&P 200 & A&P 201 recommended for transfer students)

## Curriculum and Requirements for Majors and Certificates

### REQUIRED ACTIVITY COURSES (6 Units)

Activity courses must include at least 1 (one) unit from each of the following 5 (five) areas, for a total of 6 (six) units.

#### (1) Aerobic Fitness

PEX 102	Adapted Cardiovascular Exercise	1
PEX 110	Aerobic Activities	1.5
PEX 111	Low Impact Aerobics	1.5
PEX 112	Step Aerobics	1.5
PEX 116	Water Aerobics	1
PEX 118	Triathlon Basics	1
PEX 119	Basic Training and Physical Conditioning	1
PEX 124	Personal Fitness Program	1
PEX 126	Physical Fitness Training	1.5
PEX 132	Indoor Cycling	1
PEX 138	Walking for Fitness	1
PEX 139	Walking/Jogging for Fitness	1
PEX 140	Jogging, Basics	1
PEX 141	Jogging for Fitness Beginning	1
PEX 240	Jogging for Fitness, Intermediate	2

#### (2) Fitness

PEX 103	Adapted Strength Training	1
PEX 104	Adapted Stretching & Relaxation	1
PEX 130	Weight Management	1
PEX 134	Body Sculpting	1
PEX 136	Stretch and Relaxation	1
PEX 145	Circuit Weight Training, Beginning	1
PEX 151	Yoga	1
PEX 152	Restorative Yoga	1
PEX 156	Pilates Conditioning	1
PEX 157	Pilates Conditioning for Dancers	1
PEX 245	Circuit Weight Training, Intermediate/ Advanced	2
PEX 246	Olympic Weights-Power Lifting	2

#### (3) Aquatics

PEX 105	Adapted Swimming	1
PEX 184	Swimming, Novice	1
PEX 185	Swimming, Beginning	1
PEX 186	Water Polo	2
PEX 284	Swimming, Intermediate	2
PEX 285	Swimming, Advanced	2

(Participation in Intercollegiate Swimming or Water Polo will satisfy this requirement)

#### (4) Team Activities

PEX 101	Wheelchair Activities	1
PEX 163	Baseball, Beginning	1
PEX 165	Basketball, Novice	1
PEX 166	Basketball, Beginning	1
PEX 172	Flag Football	1
PEX 177	Futsal – Indoor Soccer	1
PEX 178	Soccer, Beginning	1
PEX 181	Softball, Beginning	1
PEX 191	Volleyball, Introduction	1
PEX 192	Volleyball, Beginning	1
PEX 263	Baseball, Intermediate/Advanced	2

PEX 265	Basketball, Intermediate	2
PEX 266	Basketball, Advanced	2
PEX 272	Football, Intermediate/Advanced	2
PEX 278	Soccer, Intermediate/Advanced	2
PEX 281	Softball, Intermediate/Advanced	2
PEX 282	Competitive Slow Pitch Softball	1
PEX 291	Volleyball, Intermediate	2
PEX 292	Volleyball, Advanced	2

(Participation in Intercollegiate Athletics excluding swimming and water polo will fulfill this requirement)

#### (5) Individual Activities

PEX 100	Sedentary Activities for Students with Disabilities	1
PEX 147	Personal Self Defense	1
PEX 149	Tae Kwon Do, Beginning	1
PEX 161	Badminton, Beginning	1
PEX 167	Bowling, Beginning	1
PEX 176	Golf, Beginning	1
PEX 188	Tennis, Introduction	1
PEX 189	Tennis, Beginning	1
PEX 194	Wrestling	1
PEX 249	Tae Kwon Do, Intermediate/Advanced	2
PEX 261	Badminton, Intermediate/Advanced	2
PEX 267	Bowling, Intermediate/Advanced	2
PEX 276	Golf, Intermediate/Advanced	2
PEX 288	Tennis, Intermediate	2
PEX 289	Tennis, Advanced	2
DANC 105	Introduction to Dance Movement	3
DANC 106A	Beginning Ballet	2
DANC 106B	Intermediate Ballet	2
DANC 108A	Dance, Modern, Beginning	2
DANC 108B	Dance, Modern, Intermediate	2
DANC 108C	Dance, Modern, Advanced	2
DANC 109	Introduction to Dance Cultures of the World	2
DANC 110	Commercial Dance	2
DANC 112	Dance, Contemporary Modern	2
DANC 121	Latin Social Dance	2
DANC 122	Middle Eastern Dance	2
DANC 123	African Dance	2
DANC 124	Hip Hop Dance	2
DANC 125	Introduction to Ballroom Dance	2

#### PE ELECTIVE COURSES (3 Units Minimum)

KIN 120	Sports Officiating for Football	1
KIN 121	Sports Officiating for Men's and Women's Basketball	1
KIN 122	Sports Officiating for Baseball	1
KIN 123	Sports Officiating for Men's and Women's Track & Field	1
KIN 130	Theory of Coaching	3
KIN 106	Student Athlete in Society	2
KIN 131	Theory of Coaching Baseball	2
KIN 132	Theory of Coaching Softball	2
KIN 108	Women in Sports	3
KIN 200	Sports Psychology	3
KIN 202	Measurement and Interpretation of Fitness	3

## Curriculum and Requirements for Majors and Certificates

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KIN 203	Programs and Principles of Conditioning	3
KIN 206	Athletic Injury Assessment and Reconditioning	2
KIN 207	Athletic Injury Taping, Bandaging & Immobilization	1
KIN 211	Sport Management	3
HED 200	Nutrition For Health, Fitness And Physical Conditioning	3
DANC 100	Dance Appreciation	3
DANC 101	History of Dance	3
DANC 132	Dance and Digital Technology	3

### **RECOMMENDED GENERAL EDUCATION ELECTIVES**

PSYC 101	General Introduction to Psychology	3
HED 100	Contemporary Health Problems	3
SOC 101	Introductory Sociology Principles	3

TOTAL ASSOCIATE OF ARTS DEGREE REQUIREMENTS 25/29/31

## **ZOOLOGY**

### **ASSOCIATE OF ARTS DEGREE**

<b>REQUIRED COURSES</b>	<b>UNITS</b>
BIOL 120 Introduction to Biological Science	4
BIOL 200 Principles of Biology	5
BIOL 201 Principles of Biology	5
CHEM 111 General Chemistry	5
CHEM 112 General Chemistry	5
ZOOL 120 Introduction to Animal Biology	4

#### **Select one of the following two courses:**

MATH 116	Calculus for Managerial, Biological, and Social Sciences	4
<b>or</b> MATH 170	Analytic Geometry and Calculus I	(4)

TOTAL ASSOCIATE OF ARTS DEGREE REQUIREMENTS 32

#### **ASSOCIATE OF ARTS DEGREE REQUIREMENTS:**

Completion of a minimum of 60 semester units to include (1) the courses listed above, (2) the AA degree general education requirements, and (3) a grade of "C" or better in all courses required by major.



## **COURSE MODIFICATIONS**

*All courses on this page are Title V Associate Degree applicable/credit courses unless otherwise noted.*



## Course Descriptions

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### **ANTH 100 CULTURAL ANTHROPOLOGY 3.0 UNITS**

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of English & Reading Placement Process or ENGL 52, ENGL 72, or ESL 152, or equivalent with a grade of Pass or "C" or higher and READ 54 or READ 97 or equivalent with a grade of Pass or "C" or higher.

This course traces the social behavior of present societies exploring various cultures on earth. The class will study those societies in terms of culture growth, through a survey of the basic, learned behavior patterns. Thus the class will study a wide range of cultural phenomena, including material culture, social organization, customs, religions, languages, family life, economics, the arts and literature. (This course is not open to students who are currently enrolled in or who have received credit for Anthropology 101.)

*Transfer Credit: CSU; UC*

### **CIS 170H TCP/IP FUNDAMENTALS 3.0 UNITS**

Class hours: 3.0 Lecture

Prerequisite: None

Corequisite: None

Recommendation: A knowledge of Web browser and e-mail applications

This course offers an overview of the most widely-used networking architecture in the networking industry: Transport Control Protocol/Internet Protocol (TCP/IP). Students will learn the underlying applications, components, and protocols of TCP/IP and its necessary link to the Internet, and how to identify TCP/IP layers, components, and functions. Navigation tools, TCP/IP services and troubleshooting methodologies are also reviewed. Topics include usage of TCP/IP applications, structure of TCP/IP and IP routing, TCP/IP addressing and subnetting, how TCP/IP addresses are discovered and used in computer networks, IP routing and router usage, and troubleshooting a TCP/IP network.

### **PSYC 101 GENERAL INTRODUCTORY PSYCHOLOGY 3.0 UNITS**

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of English & Reading Placement Process or ENGL 52, ENGL 72, or ESL 152, or equivalent with a grade of Pass or "C" or higher and READ 54 or READ 97 or equivalent with a grade of Pass or "C" or higher.

This course presents a general survey of the scientific study of behavior and mental processes. The content focuses on the exploration of major psychological theories and concepts, methods and research findings in psychology. Topics include the biological basis of behavior, perception, development, learning, memory, cognition and consciousness, motivation, emotion, personality, psychological disorders and therapeutic approaches and applied psychology.

*Transfer Credit: CSU; UC*

### **PSYC 241 INTRODUCTION TO PSYCHOBIOLOGY 3.0 UNITS**

Class hours: 3.0 Lecture

Prerequisite: PSYC 101 or equivalent with a grade of "C" or higher or "Pass" and READ 54 or READ 97 with a grade of "C" or higher or "Pass" or completion of the Reading Placement Process with a score eligible for READ 100.

This course is a study of the biology of behavior, covering cells and what they do; and the structure, function, and development of the nervous and hormone systems. It also covers sensory processes, the neurological basis of motivated and emotional behavior, along with a series of specific behavioral categories, such as pain, aggression, sleep, dreaming, sexual behavior and mental illness. In addition, it explores the biological basis of the higher cerebral functions crucial to human beings as *Homo sapiens*, learning, memory, intelligence, thought and language.

*Transfer Credit: CSU; UC*

### **READ 200 ANALYSIS AND CRITICAL READING 3.0 UNITS**

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the Reading Placement Process or READ 54 or READ 97 or equivalent with a grade of Pass or "C" or higher and ENGL 100 or equivalent with a grade of Pass or "C" or higher.

This course focuses on the development and application of reading skills in the interpretation, analysis, criticism, and advocacy of ideas encountered in academic readings across the curriculum and Internet media sources.

*Transfer Credit: CSU*

*All courses on this page are Title V Associate Degree applicable/credit courses unless otherwise noted.*