

# Spring 2011 Addendum

To the 2010-2012 CSUSM Catalog

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**This Catalog Addendum supplements the information in the 2010-12 General Catalog.**

## **LIST OF NEW AND CHANGES COURSES**

Detailed course information begins on page 17 of this Addendum.

ACCT 308  
BIOL 216, 370, 370L, 383, 390, 683, 690  
CS 100, 105, 306, 307, 331  
CHEM 150, 341  
EDEX 637  
EDSL 651  
EDUC 422A, 422B, 422C  
ENTR 420, 421, 422  
ENVS 100, 105, 200, 210, 310, 320, 490  
GEOG 341, 460  
GRAD 699\_EX  
HD 300, 301, 361, 490, 497  
ID 350, 360, 370, 380  
KINE 400, 401, 402  
MATH 448  
MIS 304, 411, 430  
NURS 233  
PE 200  
PHYS 301  
PSCI 415, 422, 463  
PSYC 353, 396  
SOC 448, 675, 695A  
SPAN 500  
TA 305  
VSAR 313, 330, 331  
WMST 321

## **ADDITIONS AND CHANGES TO ACADEMIC PROGRAMS**

### Changes to the **General Education Program**

#### **Clarification of B2 Courses**

- One course (3-5 units). Select from among:

The following B2 courses are intended primarily for non-science majors:

GES 102

GES 103

The following B2 course is intended primarily for science majors: BIOL 211\*

*\*Biological sciences, biochemistry and biotechnology majors must take CHEM 150 and BIOL 211; computer science (computer science option), chemistry, and mathematics majors must take PHYS 201.*

The following B2 courses are restricted to Kinesiology and Nursing majors (including pre-Kinesiology and Pre-Nursing):

BIOL 175

BIOL 177

#### **Addition to DD Courses**

Add PSCI 415 to the list of courses fulfilling DD, **Upper-Division Social Sciences** (page 107, second column)

## **COLLEGE OF ARTS AND SCIENCES**

### Changes to **B.S. in Biotechnology**

#### **Preparation**

Freshman applicants must complete a comprehensive pattern of college preparatory study totaling 15 units with a grade of C (2.0) or better. Transfer students entering at the junior and senior level will be expected to have completed the equivalent of lower-division requirements elsewhere, including two semesters of biology, four semesters of chemistry, two semesters of physics, one semester of college-level calculus, and one semester of statistics.

#### **Special Conditions for the Bachelor of Science in Biotechnology**

All courses counted toward the major, including Preparation for the Major courses, must be completed with a grade of C (2.0) or better. A minimum of eighteen (18) units in biotechnology must be completed at CSUSM.

Biotechnology majors are permitted to earn the Minor in Biology. Biotechnology majors also pursuing the Minor in Biology may use either Genetics (BIOL 352) or Comparative Animal Physiology (BIOL 353), but not both, to fulfill part of the 5 elective units required for the Biotechnology degree requirement. These students must also take 12 additional units in Biology, exclusive of coursework applied to the Major in order to earn the Minor. Departmental advisors will provide information on recommended additional coursework.

## Requirements

	<b>Units</b>
General Education*	51
Preparation for the Major*	32-33
Requirements for the Major*	52
<i>Total Required</i>	<i>120</i>

*\*Nine (9) lower-division GE units in Area B (Math and Science) are automatically satisfied by combinations of CHEM 150, MATH 160, and BIOL 211 when taken in preparation for the major. Three (3) lower-division GE units in Area D (Social Sciences) are automatically satisfied by either PSYC 100 or SOC 101, which are also required as preparation for the major. Three (3) upper-division GE units in Area BB (Mathematics and Natural Sciences) are satisfied by students taking either CHEM 351 or CHEM 341.*

## Preparation for the Major

(32-33 units)

	<b>Units</b>
CHEM 150 & 150L	5
CHEM 201	3
CHEM 201L	2
CHEM 202	3
CHEM 250	3
MATH 160	5
PHYS 205	4
PHYS 206	4
PSYC 100 or SOC 101	3-4

## Major requirements

Lower-division (18 units)

BIOL 210	4
BIOL 211	4
BIOL 215	3
BIOL 215L	1
ACCT 201	3
ACCT 202	3

Upper-division (27 units)	
BIOT 355	4
BIOT 356	4
BIOT 357	2
BIOL 367	4
BIOL 477	3
CHEM 351 or CHEM 341	3
MGMT 302	2
MKTG 302	2
PHIL 315, PHIL 340 or PHIL 345	3

#### Electives (7 units)

Select any of the following for at least seven total units:

BIOL 352	4
BIOL 353	4
BIOL 489	2
BIOT 358	3
BIOT 497	4
CHEM 351L	2
CHEM 352	3
FIN 302	2
MIS 411	4
MIS 425	2
MIS 426	4
MGMT 415	4
MGMT 452	4
MGMT 461	4
MIS 302	2
OM 302	2

#### New Program

##### **Minor in Border Studies**

The Minor in Borders Studies offers an interdisciplinary opportunity to explore communities and territories which emerge in border regions worldwide. The courses which make up the minor examine human interactions that shape and are shaped by borders that divide people and places. The curriculum provides an understanding of how border communities are formed and sustained, and explores the interrelationships of diverse groups across the cultural, geopolitical, linguistic and social frontiers that exist in communities.

##### **Requirements**

Completion of eighteen (18) units of credit, fifteen (15) of which must be at the upper-division level. Each course counted toward the minor must be completed with a grade of C (2.0) or better.

	<b>Units</b>
Preparation (3 units):	
GEOG 201 or GEOG 302	3
Required Core Classes (9 units):	
BRS 300	3
BRS 301	3
BRS 400	3
Six (6) units selected from the following:	
BRS 330	3
BRS 364	3
BRS 430	3
BRS 453	3
GEOG 305*	3
GEOG 305S*	3
GEOG 320	3
GEOG 341	3
GEOG 460	3
LING 305	3

* <i>GEOG 305 and GEOG 305S cannot both be taken to fulfill this requirement.</i>
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### **Special Conditions for the Minor in Border Studies**

Completion of a Border Studies Minor is not available to students whose major course of study includes the Bachelor of Arts in Liberal Studies, Border Studies Option. However, students whose major course of study includes the Bachelor of Arts in Liberal Studies, Elementary Subject Matter Preparation or Integrated Credential Program (or any other major at the university) are eligible to complete a Minor in Border Studies.

New Program

### **B.A. in Environmental Studies\***

**Office:**

CRA 6239

**Telephone:**

To be determined

**Program Director:**

To be determined

**Faculty:***Anthropology*

Bonnie Bade, Ph.D.

*Biological Sciences*

Richard N. Bray, Ph.D.

Tracey Brown, Ph.D.

Matthew Escobar, Ph.D.

George Vourlitis, Ph.D.

*Chemistry and Biochemistry*

Karno Ng, Ph.D.

*Economics*

Robert Brown, Ph.D.

*Latin American Studies*

Vivienne Bennett, Ph.D.

*Literature and Writing Studies*

Lance Newman, Ph.D.

*Physics*

Edward Price, Ph.D.

*Political Science*

Pamela Stricker, Ph.D.

*Psychology*

P. Wesley Schultz, Ph.D.

*Urban and Regional Planning*

Kimberly Knowles-Yáñez, Ph.D.

*Visual and Performing Arts*

Judit Hersko, MFA

Deborah Small, MFA

*\*The B.A. in Environmental Studies has received full approval by the campus, but is pending official authorization by the Office of the Chancellor of the California State University.*

**Program Offered:**

- Bachelor of Arts in Environmental Studies

The Environmental Studies Program at California State University San Marcos will provide a



collaborative setting for faculty, students, and community partners to study environmental and land-use issues. The degree provides introductory training in physical sciences, life sciences, social sciences, land-use planning, geographic information systems (GIS), environmental policy and law, research methods, and environmental arts and humanities.

The multidisciplinary core of the degree comprises four general areas:

- *Life and Physical Sciences* provides the scientific background for the major, consisting of courses in biology, chemistry, physics, ecology, and geomorphology.
- *Social Sciences and Policy* exposes students to institutional and legal frameworks of environmental policy, and to processes by which policy is established.
- *Research Methods* prepares students with the quantitative tools – GIS, statistics, and research methods – necessary for applied work in the professional arena and also for graduate studies.
- *Environmental Arts and Humanities* encourages students to think critically, ethically, and aesthetically about the environment.

### **Career Opportunities**

Students will be prepared to pursue diverse careers in land management agencies, environmental policy, environmental review processes in both private and public sectors, outdoor recreation, government, environmental education, and non-profit organizations.

New Program

### **Minor in Geography**

Geographers study why and where people, places and environments are located on the planet and the processes of social and spatial change they are experiencing. The Minor in Geography provides students with a suite of courses that use geographic understanding to explore issues and themes related to social justice and the environment, globalization and global change, border development, climate change impacts and adaptation, water governance, and economic development.

The minor program provides students with analytical tools, research opportunities, global understanding and broad preparation for further graduate study, and for careers in business, education, environmental management, international and community development, and government. It is an excellent addition to majors in Anthropology, Business Administration, Biochemistry, Biological Sciences, Border Studies, Communications, Ethnic Studies, Global Studies, History, Liberal Studies, Native Studies, Political Science, Sociology, and Women's Studies.

**Requirements:**

Completion of eighteen (18) units of credit, twelve (12) of which must be at the upper-division level. Students may choose any upper-division course in geography in addition to those listed below. Each course counted toward the minor must be completed with a grade of C (2.0) or better.

Preparation for the Minor (Choose two)

	<b>Units</b>
ES 100	3
GEOG 201	3
GEOG 302	3

Core Courses for the Minor (Choose four):

BRS 300	3
BRS 330	3
BRS 364	3
BRS 453	3
GEOG 302	3
GEOG 305	3
GEOG 305S	3
GEOG 320	3
GEOG 340A-G	3
GEOG 341	3
GEOG 460	3
ID 340	3
LBST 307	3

*\* Students may not take both GEOG 305 and GEOG 305S, nor both GEOG 201 and 302.*

*\*\*Additional courses may be available; check the class schedule for the latest offerings.*

Correction to

**Minor in Mathematics**

Missing box at the end of Minor requirements. See page 210 of the Catalog:

*+MATH 260 (4 units) may be substituted for an upper-division elective if MATH 260 is not substituted for MATH 374.*

*^MATH 260 (4 units) may be substituted for MATH 374 if MATH 260 is not used as an upper-division elective.*

## **COLLEGE OF EDUCATION**

Change to

### **M.A. in Education – Admission Requirements**

(Replace the following information appearing in the 2010-12 General Catalog, page 288.)

#### **Grading**

All coursework will earn a letter grade. A grade-point average of 3.0 must be maintained and any grade of less than a B- will be subject to review.

## **CHANGES TO ADMISSION REQUIREMENTS, FEES, AND ACADEMIC POLICIES**

Change to

### **Credit for International Baccalaureate Certificates or Diplomas**

(Replace the following information appearing in the 2010-12 Catalog, page 36.)

CSU San Marcos awards six units of credit for each International Baccalaureate Higher Level subject examination passed with a score of 4 or better (except that three units of credit are awarded for the Psychology examination).

A student may not receive graduation credit for subsequently taking a course, which is articulated with the IB credit that s/he has received, or for a course that is a prerequisite to such a course.

IB credit may not be awarded when course credit has been granted at a level more advanced than that represented by the examination.

To receive credit, applicants who plan to enroll at CSUSM, should request a copy of their IB transcript of grades be sent to the Office of Admissions for evaluation. IB examinations not covered by the IB course articulation table will be reviewed on a case-by-case basis, via petition to the Director of Registration and Records.

Changes to

**REGISTRATION FEES TABLE**

(Replace information appearing in the 2010-12 Catalog, page 38)

The CSU makes every effort to keep student costs to a minimum. Fees listed in published schedules or student accounts may need to be increased when public funding is inadequate. Therefore, CSU must reserve the right, even after initial fee payments are made, to increase or modify any listed fees, without notice, until the date when instruction for a particular semester or quarter has begun. All CSU listed fees should be regarded as **estimates** that are subject to change upon approval by The Board of Trustees.

	Per Semester	
	0.0-6.0 units	6.1+ Units
Undergraduate Tuition Fee	\$1,287.00	\$2,220.00
Credential Tuition Fee	\$1,494.00	\$2,577.00
Graduate Tuition Fee	\$1,587.00	\$2,736.00
Health Facility Fee	\$25.00	\$25.00
Associated Students Fee	\$50.00	\$50.00
Instructional Related Activity (IRA) Fee	\$5.00	\$5.00
Recreation Fee	\$35.00	\$35.00
Clark FH Operations	\$12.00	
ASI Campus Recreation	\$12.00	
Track & Lower Recreation		
Field Maintenance	\$11.00	
Student Union Fee	\$140.00	\$140.00
Student Health Services Fee	\$70.00	\$70.00
Academic Records Fee	\$12.00	\$12.00
Athletics Fee	\$60.00	\$60.00
Childcare Services	\$10.00	\$10.00
Total for Undergraduate	\$1,694.00	\$2,627.00
Total for Credential	\$1,901.00	\$2,984.00
Total for Graduate	\$1,994.00	\$3,143.00

**Graduate Professional Business Fee**

\$231 per unit in addition to mandatory fees and non-resident fees (if applicable).

The Graduate Business Professional Fee is paid on a per unit basis in addition to the mandatory tuition and campus fees for the following graduate business program:

Master of Business Administration (M.B.A.)

**Nonresident Students (U.S. and Foreign)**

The total nonresident tuition paid per term will be determined by the number of units taken. \$372.00 per unit in addition to all mandatory fees.

Changes to  
**USER FEES TABLE**

(Replace information appearing in the 2010-12 Catalog, page 39)

Academic Technology Services Equipment Fee (See equipment checkout fee schedule).	Varies
Administrative Late Fee (Failure to meet administratively required appointment or time limit fee.)	\$15.00
Alumni Placement Fee	\$25.00
Application Fee for CSU Admission	\$55.00
Bicycle Storage Fee – Per semester	\$15.00
Biology 160, 175, 176, 351,352,353 & 354 – Miscellaneous Course Fees (each)	\$45.00
Biotechnology Course Fee: BIOL 355,356 (each)	\$45.00
Chemistry Lab Breakage Fee- Cost of broken lab equipment	Varies
Chemistry — Lower Division Courses: CHEM 150L, 201L, 202L, 275 (each)	\$30.00
Chemistry — Upper Division Courses: CHEM 351L, 404L, 405, 416, 499 (each)	\$35.00
College of Education Application Credential Fee	\$25.00
Computing Services Fee	\$30.00
Cross-Enrollment Fee	\$10.00
Dishonored Checks & Credit Cards	\$20.00
Emergency Loan Fee	\$2.00
Emergency Loan Late Fee	\$40.00
Foreign Language Proficiency Test	\$49.50
Kinesiology 200, 201 (fee per class)	\$15.00
Kinesiology 305, 406 (fee per class)	\$25.00
Kinesiology 300	\$30.00
Kinesiology 302, 326 (fee per class)	\$35.00
Kinesiology 104	\$45.00
Late Registration Fee	\$25.00
Mass Media Course Fee: MASS 302	\$20.00
Mass Media Course Fee: MASS 457	\$5.00
Music Course Fee: MUSC 304, 402 (each)	\$10.00
Nursing Special Exam Fee	\$50.00
Orientation Fee - Family member/guest (each)	\$20.00
Orientation Fee - First Year Students	\$70.00
Orientation Fee - Transfer student w/catalog	\$45.00
Orientation Fee - Overnight Program	\$140.00
Parking Fee - Auto per semester	\$293.00
Parking Fee - Motorcycle per semester	\$50.00
Parking Fee – Academic Year	\$557.00
Photo ID - New/Replacement	\$5.00
Photo ID - Temporary (ALCI, Open University)	\$2.00
Physics — Lower Division Courses: PHYS 201, 202, 203, 205, 206 (each)	\$25.00
Physics — Upper Division Courses: PHYS 301, 402 (each)	\$30.00
Psychology Course Fee: PSYC 402	\$15.00
Student Laptop Computer Security Repair Fee	\$30.00
Teaching Credential Application- Payable to State of California	\$40.00
Teacher Performance Assessment	\$85.00
Theatre Arts Courses: TA 305, 489 (each)	\$20.00
Thesis Binding Fee	\$65.00
Transcript Waiver Evaluation Fee	\$25.00
Visual Arts Course Fee: VSAR 110, 130,131,301,303, 304, 305, 306, 309, 406, 440 (each)	\$20.00

User Fees are subject to change pending approval in accordance with university procedures.

## Withdrawal Policy

[Policy changed to include credential and graduate students]

### I. Withdrawal from Courses

Students may withdraw on or before the Add/Drop deadline (end of the second week of semester or end of approximately 10% of the academic term) and the course will not appear on their permanent records. No symbol need be recorded in such instances. After the second week of instruction and prior to the 19<sup>th</sup> day of the semester, students may withdraw with a "W" for reasons such as inadequate preparation. In connection with all other approved withdrawals, the "W" symbol shall be used. Students may withdraw from no more than 18 semester-units attempted at CSU San Marcos during each of their respective undergraduate, credential, or graduate studies.

A. *Withdrawals After the 19<sup>th</sup> Day of the Semester and Prior to the End of the Twelfth Week of Instruction.* Withdrawal during this period is permissible only for serious and compelling reasons (see below). Permission to withdraw during this time shall be granted only with the approval of the instructor, and the department chair or dean or dean's designee. Permission to withdraw during this time from graduate or credential courses shall be granted only with the approval of the appropriate graduate or credential program coordinator or the Dean of Graduate Studies (or designee). All requests to withdraw under these circumstances and all approvals shall be documented as prescribed by the campus. The requests and approvals shall state the reasons for the withdrawal. Records of such approvals shall be maintained in accordance with the campus record retention policy.

1. *Serious and Compelling Reasons.* The following situations are typical of those for which "serious and compelling" is appropriate justification for approving withdrawals.
  - An extended absence due to a verifiable accident, illness, or personal problem serious enough to cause withdrawal from the university.
  - An extended absence due to a death in the immediate family. This applies to absences exceeding a week due to family affairs that must be attended to by the student.
  - A necessary change in employment status which interferes with the student's ability to attend class. The student's employer must verify this change in employment status in writing for the term in which the withdrawal is being requested.
  - Other unusual or very special cases, considered on their own merit.
  - For graduate and credential courses, level of academic preparation may be considered as a factor for justification in approving withdrawals.

The following situations would not fall under the intent of "serious and compelling."

- Grade anticipated in class is not sufficiently high, or student is doing failing work.
- Failure to attend class, complete assignments, or take a test.
- Dissatisfaction with course material, instructional method, or instructor.
- Class is harder than expected.

- Pressure of other classes, participation in social activities, or simple lack of motivation.
  - A change of major.
2. *Documentation.* All requests for withdrawals after the 19<sup>th</sup> day of the semester must be for verifiable reasons and require appropriate documentation.
- B. *Withdrawals after the Twelfth Week or Retroactive Withdrawal.* Requests for withdrawal from courses after the twelfth week of instruction (retroactive withdrawal) are seldom granted. Students are expected to formally withdraw from classes or the university prior to the end of the twelfth week of instruction if work, personal, or health reasons interfere with class attendance or ability to complete work or exams.
1. Withdrawals from classes or the university after the twelfth week of instruction will be considered only for accident or serious physical or mental illness, or serious personal or family problems where the cause of withdrawal is due to circumstances clearly beyond the student's control and the assignment of an incomplete grade is not practicable. In addition, extenuating circumstances must be shown to have prevented withdrawal in a more timely fashion. Students may not request a late withdrawal for poor academic performance. Lack of awareness of the withdrawal procedures is not an extenuating circumstance.
  2. Requests for permission to withdraw after the twelfth week of instruction shall be handled and filed as indicated in the section for withdrawals after the 19<sup>th</sup> day of the semester and prior to the end of the twelfth week of instruction, except that such requests must also be approved by the academic administrator appointed by the president. Permission to withdraw during this time from graduate or credential courses shall be granted only with the approval of the appropriate graduate or credential program coordinator and the Dean of Graduate Studies (or designee). Such withdrawals will not count against the 18 units maximum allowable to withdraw.

## II. Withdrawals for Extenuating Circumstances

- A. *Complete Withdrawal for Medical Reasons.* The University may allow a student to withdraw without academic penalty from all classes if the following criteria are met:
- A completed Withdrawal Form, including any required medical documentation, is submitted to Cougar Central before the end of the semester, and
  - The student presents evidence to demonstrate that a severe medical or debilitating psychological condition prevented the student from attending and/or doing the required work of the courses to the extent that it was impossible to complete the courses.

A grade of "W" will be used for withdrawal from all courses for the term due to medical reasons, and will not be counted toward the maximum 18 units allowable for withdrawals.

- B. *Repeat Complete Medical Withdrawal.* If the student has been granted a complete medical withdrawal in the subsequent preceding term, then additional medical withdrawal requests must consider the question of whether or not the student can complete appropriate educational objectives, and must be reviewed on a case-by-case basis.

After a repeat medical withdrawal is granted, the student may be required to obtain a clearance from an appropriate medical or psychological professional that states the student is well enough to return to classes with the full expectation that the student will be able to complete the semester and intended educational objectives.

- C. *Withdrawal Procedures for Students Mobilized for Active Military Duty.* Students called for active military duty may withdraw from courses throughout the term without restriction or penalty with the appropriate documentation. For clarification of Veterans Administration policies on withdrawals, incompletes, course repeats, etc., please contact the veterans' representative located in the Office of Registration and Records.



## ADDITIONS, CHANGES, AND CORRECTIONS TO COURSE DESCRIPTIONS

### **ACCT 308 (4)**

[Correction to enrollment restrictions: Delete “, and the Computer Competency Requirement.”]

#### **Accounting Information and Systems**

### **BIO 216 (3)**

[New Course]

#### **Biostatistics for the Health Sciences**

Study of the techniques and underlying principles necessary to analyze various types of data used in health science professions. Introduces sampling and experimental design, descriptive statistics, graphical display of data, point and interval estimation methods, and common hypothesis testing methods, including T-Tests, linear regression, and analysis of variance. Focuses on the use of statistical analysis in support of scientific reasoning, as it applies to health professions. *May Not be taken for credit by Biological Science Majors. Restricted to Pre-Nursing and Nursing Students.*

### **BIOL 370 (3)**

[Change in unit value]

#### **Plant Physiology**

### **BIOL 370L (1)**

[New Course]

#### **Plant Physiology Lab**

Provides hands-on experience with classical and molecular techniques utilized in modern plant physiology research, such as plant transformation, tissue culture, nucleic acid isolation, enzyme activity assays, and plant/pathogen challenge assays, and plant/pathogen challenge assays (specific subjects may vary by semester.) *Three hours of laboratory. Pre/Co-Requisite: BIOL 370.*

### **BIOL 383 (3)**

[New Course]

#### **Tropical Ecology**

A survey of the unmanaged and managed tropical terrestrial ecosystem and the biotic (living) and abiotic (non-living) factors that affect tropical ecosystem structure and function. Emphasis will be on the community dynamics and biogeochemical cycling of tropical ecosystems, and how these processes are affected by land-use and land-cover change. *This course will be taught together with BIOL 683 by the same instructor. Enrollment Requirement: BIOL 210, 211, and 212.*

### **BIOL 390 (3)**

[Added the following statement to course description: *This course will be taught together with BIOL 690 by the same instructor.*]

#### **Terrestrial Plant Ecology**

### **BIOL 683 (3)**

[New Course]

#### **Tropical Ecology**

A survey of the unmanaged and managed tropical terrestrial ecosystem and the biotic (living) and abiotic (non-living) factors that affect tropical ecosystem structure and function. Emphasis will be on

the community dynamics and biogeochemical cycling of tropical ecosystems, and how these processes are affected by land-use and land-cover change. *This course will be taught together with BIOL 383 by the same instructor. Enrollment Requirement: BIOL 210, 211, and 212. Prerequisite BIOL 354; enrollment is restricted to students who have not taken BIOL 383.*

### **BIOL 690 (3)**

[New Course]

#### **Terrestrial Plant Ecology**

Survey of the factors that influence the physiology, distribution, and abundance of land (terrestrial) plants. Focuses on plant ecophysiology, plant population dynamics (e.g., dispersal, germination, and recruitment), plant-plant and plant-animal interactions, and the effects of the abiotic factors (e.g., climate, water, and nutrients) on the structure and function of terrestrial plant communities. *This course will be taught together with BIOL 390 by the same instructor; Prerequisite: BIOL 354; enrollment is restricted to students who have not taken BIOL 390.*

### **CS 100 (1)**

#### **Computer Basics**

[Correction: Delete “*May not be taken by students who have passed the Computer Competency Requirement exam.*”

### **CS 105 (3)**

[New Course]

#### **Media-Propelled Computational Thinking**

A media-propelled introduction to computation. Programming languages such as Alice, Java, Python, or Jython are studied and programming techniques are used to examine first the basic functions that draw objects including lines and curves and later to explore familiar physical, biological, or other scientific processes. Mathematical competence necessary for academic success will be enhanced. *May not be taken for credit by students who have received credit for CS 200-2.*

### **CS 306 (3)**

[Correction to enrollment restrictions: Delete “*the Computer Competency Requirement (CCR)*”]

#### **Introduction to Computer Animation**

### **CS 307 (3)**

[Correction to enrollment restrictions: Delete “*the Computer Competency Requirement (CCR)*”]

#### **How Computers Solve Problems**

### **CS 331 (3)**

[Added corequisite: Co/Prerequisite: PHYS 301]

#### **Computer Architecture**

### **CHEM 150 (4)**

[Added restriction: Enrollment restricted to students with declared majors in: Biochemistry, Biological Sciences, Biotechnology, Chemistry, Kinesiology, Liberal Studies, Mathematics, and Physics]

#### **General Chemistry**

**CHEM 341 (3)**

[Change in title]

**General Biochemistry**

**EDEX 637 (3)**

[New Course]

**Technology and Communication for Special Populations: Autism Spectrum Disorder Emphasis**

Contemporary information and issues for education and agency personnel regarding the use of technologies inclusive of augmentative and alternative communication methods for students with disabilities and other communication challenges. Emphasis is on supporting individuals with Autism Spectrum Disorder. *Requires Laboratory work.*

**EDSL 651 (2) Professional Seminar I**

[Grading not listed in the catalog: Graded Credit/No Credit]

**EDUC 422A (1)**

[Delete Enrollment restriction: *Enrollment restricted to students who have completed the Computer Competency Requirement*].

**Technology Tools for Teaching and Learning - Part A**

**EDUC 422B (1)**

[Delete Enrollment restriction: *Enrollment restricted to students who have completed the Computer Competency Requirement*].

**Technology Tools for Teaching and Learning - Part B**

**EDUC 422C (1)**

[Delete Enrollment restriction: *Enrollment restricted to students who have completed the Computer Competency Requirement*].

**Technology Tools for Teaching and Learning - Part C**

**ENTR 420 (2)**

[Change to description and delete prerequisite (ENTR 320)]

**New Venture Marketing**

Preparation and presentation of a marketing plan for a new company, product, or service. Plan development involves gathering consumer, industry, and competitive information, and obtaining feedback from other students in the class who will act as an advisory board. *Prerequisites: MKTG 302 or 305 with a grade of C (2.0) or better.*

**ENTR 421 (2)**

[Change in course description and delete prerequisite (ENTR 320)]

**New Venture Management**

Explores the management challenges inherent in starting a new venture. Includes a survey review of human resources (actions of the founder, compensation, selection), physical resource acquisition (real estate space and equipment leasing), materials sourcing, regulatory processes (licenses, certifications), negotiation strategies, and business formation. *Enrollment restricted to students who have completed all lower-division pre-business core (major status in Business Administration - i.e. attained business status).*

**ENTR 422 (2)**

[Change in course description and delete prerequisite (ENTR 320)]

**New Venture Finance**

Survey course to help students understand the various options to finance a new venture, both those with a domestic or international focus. Explores the relationship between financing and incorporation and discusses risk exposure. *Enrollment is restricted to students who have completed all lower-division pre-business core (major status in Business Administration - i.e. attained business status). Prerequisite: FIN 302 or FIN 304 with a grade of C (2.0) or better.*

**ENVS 100 (3)**

[New Course]

**Introduction to Environmental Studies**

An introduction to the ways in which human behavior impacts and is connected to environmental systems. Integrates multiple perspectives of environmental issues from the natural sciences, behavioral sciences, social sciences, culture, ethics, and the arts and humanities. Areas include energy use, resource depletion, water supply, air pollution, population growth, urbanization, climate change, biodiversity, and more.

**ENVS 105 (3)**

[New Course]

**Introduction to Biology/Ecology**

An introduction to the natural and physical processes governing environmental systems, as well as the ways in which human behavior impacts and is connected to the environment. Studies how living organisms function and evolve with the natural world, covering a diversity of organisms and physical environments. Examples of subjects covered in the course include energy flow, nutrient cycling, population dynamics, and the ecological and biological consequences of human activities.

**ENVS 200 (3)**

[New Course]

**Geomorphic Processes**

Studies relations between water, wind, gravity, and humans in the formation and deposition of land and sea landforms. Introduces landform terminologies and processes that shape the earth's environmental landscape. The connection between geomorphic processes and human activities is a central focus.

**ENVS 210 (3)**

[New Course]

**Research Methods: Introduction to Geographic Information Systems (GIS)**

Students are provided the foundations of spatial landscape analysis through computer-based, geographic information systems. Emphasizes spatial data collection, processing, analysis, and presentation using GIS software within the context of environmental and urban design. Introduces spatial variations and interactions of rural, suburban, and urban landscape. Examines land-use planning issues such as transportation, economic development, housing, open space preservation, environmental protection, urban design, and public finance.

**ENVS 310 (3)**

[New Course]

**Environmental Impact Analysis**

Introduces methods for analyzing and quantifying human impacts on the environment. Theoretical and applied aspects of environmental impact assessment are covered, with particular focus on preparation processes of environmental impact reports (EIRs) and statements (EISs) mandated by state and federal statutes. California planning statutes are studied, as well as the political processes surrounding land-use decisions. Introduces such areas as cost-benefit analysis, EIR/EIS review processes, and litigation and mediation of EIRs. *Enrollment Requirement: ENVS 100.*

**ENVS 320 (3)**

[New Course]

**Environmental and Land-Use Design**

Develops methods to study human impacts on the environmental landscape associated with land-use planning. Spatial variations and interactions of rural, suburban, and urban landscapes are studied. In addition, land-use planning approaches are examined within legal, administrative, comparative perspectives, and applied research methods. Examines such areas as transportation, open space preservation, housing, economic development, environmental protection, urban design, and public finance. *Enrollment Requirement: ENVS 200.*

**ENVS 490 (3)**

[New Course]

**Capstone in Environmental Studies**

Students will apply concepts from their coursework to complete an original research project. At least one faculty member approves and advises the student on a project that is mutually designed to satisfy the student's intellectual interests and professional objectives. The capstone project demonstrates the student's ability to integrate coursework from throughout the major in a project that examines a particular environmental topic, issue, or creative endeavor. *Enrollment Requirement: Completion of all Preparation for the Major coursework. Prerequisite: ENVS 310 and CHEM 311.*

**GEOG 341 (3)**

[New Course]

**Nature and Society in California**

Has California influenced people or have people changed California? A review of the historical context within which Spanish, Mexican, European, and Asian settlers arrived in California including consideration of the state's physical geography, the evolution of nature-society relationships, related myths, social relations, economic trajectories, political currents, and cultural dynamics. Through readings and film, discussion and lecture, students pursue classic themes in geography such as natural resource exploitation, regional development, and urban-rural relations. *May not be taken for credit by students who have received credit for ID 370-1.*

**GEOG 460 (3)**

[New Course]

**Food Systems and Emerging Markets**

An assessment of the North American food system in the context of globalization and world development including the impact of the U.S. food production and foreign policy on developing

nations. Considers the structure and operation of the food system from the farm gate to the dinner table, with an emphasis on case studies of food production-consumption, food and agricultural regulation and emerging markets, and geographic difference. Covers related areas in entomology, soil science, food science, and agro-ecology. *May not be taken for credit by students who have received credit for ID 350-2.*

**GRAD 699\_EX (0)**

[Grading method not printed in catalog: Graded Credit/No Credit]

**Graduate Standing Continuation**

**HD 300 (3)**

[Added the following italicized text at the end of course description: *Enrollment restricted to Human Development majors with Junior or Senior standing. Enrollment Requirement: Completion of all Human Development Preparation for the Major coursework.*]

**Administration in Human Service Settings**

**HD 301 (3)**

[Added the following italicized text at the end of course description: *Enrollment restricted to Human Development majors with Junior or Senior standing. Enrollment Requirement: Completion of all Human Development Preparation for the Major coursework.*]

**Theories of Human Development**

**HD 361 (3)**

[Added the following italicized text at the end of course description: *Enrollment restricted to Human Development majors with Junior or Senior standing. Enrollment Requirement: Completion of all Human Development Preparation for the Major coursework.*]

**Introduction to Interpersonal, Interviewing, and Interaction Skills**

**HD 490 (3)**

[Added the following italicized text at the end of course description: *Enrollment restricted to Human Development majors with Senior standing. Enrollment Requirement: Completion of all Human Development Preparation for the Major coursework.*]

**Human Development in Perspective**

**HD 497 (3)**

[Added the following italicized text at the end of course description: *Enrollment restricted to Human Development majors with Junior or Senior standing. Enrollment Requirement: Completion of all Human Development Preparation for the Major coursework.*]

**Applied Research in Human Development**

**ID 350 (1-3)**

[Change in unit value]

**Topics in Interdisciplinary Perspectives in the Humanities, Social Sciences and/or Sciences**

**ID 360 (1-3)**

[Change in unit value]

**Topics in Interdisciplinary Perspectives in the Humanities****ID 370 (1-3)**

[Change in unit value]

**Topics in Interdisciplinary Perspectives in the Social Sciences****ID 380 (1-3)**

[Change in unit value]

**Topics in Interdisciplinary Perspectives in the Sciences****KINE 400 (3)**

[Change to course description and prerequisites]

**Movement Theory and Practice of Elementary Physical Education for Children**

Serves as the elementary component for preparation towards the teacher certification program for prospective physical education teachers. Provides an intensive experience focusing on the critique design, instruction, implementation and evaluation of elementary school physical education.

Designed to promote effective teacher behaviors found in the elementary physical education setting.

*Two hours of lecture and three hours of laboratory. Enrollment Requirement: KINE 202. Enrollment restricted to students with junior standing (> 60 units). Prerequisite: KINE 307 or 308 or 309.*

**KINE 401 (3)**

[Change to course description and prerequisites]

**Principles, Organization and Management of Secondary School Physical Education**

Serves as the secondary component for preparation towards the teacher certification program for prospective physical education teachers. Provides an intensive experience focusing on the critique design, instruction, implementation, and evaluation of middle and high school physical education.

Designed to promote effective teacher behaviors found in the secondary physical education setting.

*Two hours of lecture and three hours of laboratory. Enrollment Requirement: KINE 202. Enrollment restricted to students with Junior Standing (>60 Units). Prerequisite: KINE 307 or 308 or 309.*

**KINE 402 (3)**

[Change to course description and prerequisites]

**Applied Theory of Teaching Team, Individual, and Dual Sports**

Designed to allow teacher candidates to apply a variety of physical education content within K-12 schools. Lesson plans will be used to prepare, practice, and implement appropriate physical education content during the on-campus labs and off-campus field experience. Serves as the final K-12 school experience prior to applying to the California credentialing program.

*Two hours of lecture and three hours of laboratory. Enrollment Requirement: KINE 202. Enrollment restricted to students with junior standing. (> 60 Units). Prerequisites: KINE 307 or 308, or 309 and either KINE 400 or 401.*

**MATH 448 (3)**

[New Course]

**Mathematical Models and Methods in Biology**

Introduces mathematical models in Biology and their analysis. Both one dimensional models, including the Malthusian Model and the logistic model, and multi-dimensional models, including, structured population models and predator-prey models are studied, as are matrix models for base substitution in DNA, phylogenetic trees, and sequence alignment. Mathematical concepts and methods to formulate and analyze these models include limits, derivatives, matrix algebra, eigenvectors, probability theory, and dynamic programming. Software is used to simulate models and visualize the numerical results. *Enrollment Requirement: MATH 160 with a grade of C (2.0) or better.*

**MIS 304 (4)**

[Correction to enrollment restrictions: Delete “, and the Computer Competency Requirement.”]

**Principles of Management Information Systems****MIS 411 (4)**

[Change to prerequisites: Removed consent of instructor]

**Database Management****MIS 430 (4)**

[Correction to enrollment restrictions: Delete “, and the Computer Competency Requirement.”]

**Wireless Communications for Business****NURS 233 (2)**

[Correction of course title]

**Nursing Care of Children Laboratory****PE 200 (1)**

[Change in number of units that can be applied toward baccalaureate: A maximum of ten (10) units of intercollegiate athletics courses may be applied toward a baccalaureate degree.]

**Intercollegiate Athletics****PHYS 301 (4)**

[Deleted prerequisite and changed Enrollment Requirement: Enrollment Requirement: CS 231, PHYS 202 or 206, and MATH 270]

**PSCI 415 (3)**

[Correction to italicized statement: Enrollment Requirement]: *Completion of the Lower-Division General Education requirement in California Government (Dg). (USGP).*

**State Politics**



**PSCI 422 (3)**

[New Course]

**Media and Politics**

Analyzes role of news media in the political system and assesses the manner in which Americans' political beliefs, choices and actions are influenced by mass media presentations. Examines how news organizations interact with officials, organized groups, and the public to assess media influence on elections, policy making, and politics in general. *May not be taken for credit by students who have received credit for PSCI 419-1. Enrollment Requirement: Completion of the Lower-Division General Education requirement in U.S. Constitution (Dc). (USGP).*

**PSCI 463 (3)**

[New Course]

**The Global-Jihadis Hydra and U.S. Foreign Policy**

Examines non-state threats to U.S. foreign policy. Increasing numbers of non-state actors challenge U.S. security interests. Traditional policy such as "deterrence" and "containment" prove less effective than with state actors. Policymakers must therefore account for these threats. This course considers one in detail: global-jihadis hydra. *May not be taken for credit by students who have received credit for PSCI 469B and 469-1.*

**PSYC 353 (3)**

[Change in title]

**Psychology in the Workplace: Industrial/Organizational Psychology****PSYC 396 (3)**

[Prerequisite not printed in catalog: *Prerequisite: PSYC 332 must be completed with a grade of C (2.0) or better.*

**Laboratory in Social Psychology****SOC 448 (2)**

[New Course]

**Racial Profiling**

Critical examination of racial profiling in three areas of the social realm- on the streets as part of "war on drugs" policies, as an issue of immigration and "border patrol," and as a "national security" concern post 9/11. Examines both formal and informal social processes surrounding racial profiling, including historical and contemporary legislation that overtly and covertly influences racialized law enforcement. Analyzing the discourse surrounding racial profiling will be emphasized, both in the scholarly and public realms. *Recommended preparation: SOC 313. May not be taken for credit by students who have received credit for SOC 490-1.*

**SOC 675 (4)**

[Grading method not listed in catalog: Graded Credit/No Credit.]

**Thesis Research****SOC 695A (1) 695B (2) 695C (3) 695D (4)**

[Grading method not listed in catalog: Graded Credit/No Credit.]

**Independent Thesis Research.**

**SPAN 500 (3)**

[New Course]

**History of Latin America Literature**

A master's level survey of major works of Latin American poetry and narrative from the colonial period to the 21<sup>st</sup> century, including writers such as Sister Juana Inés De La Cruz, Esteban Echeverría, Rubén Darío, Gabriela Mistral, Alejo Carpentier, Gabriel García Márquez, Roberto Bolaño.

**TA 305 (3)**

[Correction to unit value]

**Design and Production for Theatre****VSAR 313 (3)**

[New Course]

**Digital Arts and the Environment**

Investigates a broad range of artistic practices and contemporary artists who use digital media to comment on and shape current environmental debates. Explores a broad range of environmental perspectives to enrich our understanding of current environmental concerns and their interpretation through digital media. Lectures, screenings, interviews, group discussions, research. Final projects include site-specific art exhibitions, artist's books, photographic series, video.

**VSAR 330 (3)**

[New Course]

**Art and Science: Historical and Contemporary Practice**

Surveys the connection between art and science from the Renaissance to the present focusing on themes including space, time, process, pattern and material. Introduces the structural parallels between art and science as well as the cultural and ethical issues surrounding science as they are reflected through art. Lecture and readings will be supplemented by videos, field trips as well as visiting artists and scientists.

**VSAR 331 (3)**

[New Course]

**Art, Science and Technology**

Focuses on the juncture of art and science in contemporary art practice. Investigates the research agenda of various areas of science and the artistic responses to this scientific research. Examines issues around the visual representation of scientific data. Exposes different approaches, materials, and technologies used by artists today and project will be developed based on themes including environmental art and science, the body (biology and medicine), and space, time and light (physics).

**WMST 321 (3)**

[Change in unit value]

**Feminist Pedagogies in Practice**