## Addendum to University Catalog Academic Year 2015-2016

### Adjustments and/or Corrections to Degree Requirements

#### BS Biological Science, Concentration in Ecology and Evolution

Unit requirements were listed incorrectly for Program requirements, Preparation for Major was also missing courses.

**Preparation for the Major**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 001A. General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 001B. General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 008. Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 009. Organic Chemistry Lab</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 006. Biological Safety</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 100W. Scientific Communication Workshop</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 156. Ecological Sampling Design and Analyses</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 002A. Fundamentals of Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 002B. Fundamentals of Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete one course from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 030. Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 055. Introductory Biostatistics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Requirements of the Major**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Courses</td>
<td>46</td>
</tr>
<tr>
<td>BIOL 001A. Foundations of Biodiversity</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 001B. Foundations of Cell Biology &amp; Physiology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 106. Physiological Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 106L. Physiological Ecology Lab</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 113. Comparative Taxonomy</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 114. Functional Morphology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 115. General Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 118. Evolutionary Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 160. Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 163. Conservation Biology and Management</td>
<td>3</td>
</tr>
<tr>
<td>BOT 165. Plant Communities of California</td>
<td>4</td>
</tr>
<tr>
<td>ENT 101. Insect Diversity</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete one course from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZOOL 115. Invertebrate Zoology and Natural History</td>
<td>4</td>
</tr>
<tr>
<td>ZOOL 116. Vertebrate Evolution and Natural History</td>
<td>4</td>
</tr>
</tbody>
</table>

**Elective Courses**

Complete 4 units from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 155. Hypothesis Testing</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 164. Conservation and Management Techniques</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 172. Ecology of Inland and Estuarine Waters</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 180. Individual Studies</td>
<td>1-4</td>
</tr>
<tr>
<td>BOT 104. Plant Taxonomy</td>
<td>4</td>
</tr>
<tr>
<td>ENT 106. Forensic Entomology</td>
<td>3</td>
</tr>
</tbody>
</table>
GEOL 137. Introduction to GPS/GIS for Geologic Applications ........................................... 4
ZOOL 115. Invertebrate Zoology and Natural History ......................................................... 4
ZOOL 116. Vertebrate Evolution and Natural History ........................................................ 4
ZOOL 115 and ZOOL 116 (which ever wasn’t taken above) .................................................. 3
ZOOL 150. Fishery Conservation and Management ............................................................ 3
ZOOL 160. Zoogeography ....................................................................................................... 3
Other upper-division non-GE BIOL/BOT/ZOOL/MICR/MS electives with prior advisor approval

BS, Business Administration, Concentration in Business Analytics

Under Requirements of the Major, Statement should read:

Additionally, to qualify for a baccalaureate degree in Business Administration with concentration in Business Analytics, all courses in the concentration must be completed with a grade of "C" or better. A cumulative 2.0 GPA is required in all business classes.

University Electives should list as 10

BA - Child and Adolescent Development

University Graduation Requirements ................................................................................. 38
Core Lower Division General Education ........................................................................... 24
Of the 39 units required by the university, 15 units may be satisfied by coursework outlined below. Courses that meet GE Areas A1, A2, A3 or B4 must be passed with a "C" or better to meet the requirement. Consult with major advisor for details.

Note: Students who have completed the ADT Transfer Degree (under SB 1440) for this major will have completed all Lower Division GE Requirements and should follow the 60 unit guarantee roadmap. Meet with an advisor prior to registering for your first semester for the 60 unit roadmap or specific questions.

Upper Division General Education ................................................................................... 6
Of the 9 units required by the university, 3 units may be satisfied by coursework outlined below. Consult with major advisor for details.

American Institutions ....................................................................................................... 6
Coursework shown below for the 6 units required by the university are double counted within GE. Consult with major advisor for details.

Complete one sequence from:

Asian American Studies ................................................................................................... 6
AAS 033A. Asian Americans in the United States Historical and Political Process ... M6 ........  3
AAS 033B. Asian Americans in the United States Historical and Political Process ... M7 ........  3
U.S. History and Government .......................................................................................... 6
HIST 015A. Essentials of U.S. History .............................................................................. M12 ........  3
Can be taken as POLS 015 A/B as well.

Mexican American Studies .................................................................................................. 6
MAS 010A. Mexican Americans and the Development of U.S. History and Government ... M6 ....  3
MAS 010B. Mexican Americans and the Development of U.S. History and Government ... M7 ....  3

Physical Education ........................................................................................................... 2

Graduation Writing Assessment Requirement .................................................................... 0

At SJSU, students must pass both the SJSU Writing Skills Test (WST) and a 100W course. For additional information on the WST, please see http://testing.sjsu.edu/wst. Exceptions to the GWAR may be found at http://info.sjsu.edu/gwar.html.

A grade of C or better (C- not accepted) is required to meet graduation requirement.
THE FOLLOWING ARE CORRECTIONS TO REQUIREMENTS IN DEGREES AND POLICY AND PROCEDURES

Requirements of the Major

Area Specialization: 

Complete one course from:
- CHAD 173. Critical Issues in Infant/Toddler Development
- CHAD 161. Child Care Administration II
- CHAD 160. Child Development Practicum
- CHAD 150. Development of Communicative Competence

Complete one plan from the following:

Plan B1: Development of Communicative Competence
- CHAD 150. Development of Communicative Competence
- CHAD 160. Child Development Practicum
- CHAD 161. Child Care Administration II
- CHAD 173. Critical Issues in Infant/Toddler Development

Plan B2: 
- CHAD 104. Atypical Development in Young Children
- EDSE 108. Assessment and Evaluation: Atypical Young Children
- HPRF 135. Health Issues in a Multicultural Society
- JS 136. Family and Community Violence
- PSYC 142. Child Psychopathology
- NUFS 114B. Community Nutrition (non-majors)
- SOCI 178. Sociology of Childhood

Interdisciplinary Elective: 

Complete one course from:
- EDSE 104. Atypical Development in Young Children
- EDSE 108. Assessment and Evaluation: Atypical Young Children
- HPRF 135. Health Issues in a Multicultural Society
- JS 136. Family and Community Violence
- PSYC 142. Child Psychopathology
- NUFS 114B. Community Nutrition (non-majors)
- SOCI 178. Sociology of Childhood

Sociology of Childhood

Plan B2: Development of Communicative Competence
- CHAD 104. Program Evaluation and Assessment in Community-Based Programs
- CHAD 157. Adult Supervision for Programs Serving Children, Youth, and Families
- CHAD 158. Practicum in Community-Based Organizations Serving Children and Youth

Complete one course from:
- CHAD 163. Critical Issues in Adolescent Development
- CHAD 173. Critical Issues in Infant/Toddler Development

Interdisciplinary Elective: 

COMM 144F. Organizational Communication
Addendum to Catalog

THE FOLLOWING ARE CORRECTIONS TO REQUIREMENTS IN DEGREES AND POLICY AND PROCEDURES

Academic Year 2015-2016

September 2015

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University Electives or Minor ..................................................................................................................... 24-25

University electives may be chosen by student, however the department highly recommends the following courses. If not taken above.

CHAD 104. Program Evaluation and Assessment in Community-Based Programs ............................ 3
CHAD 150. Development of Communicative Competence ........................................................................ 3
CHAD 151. Developing Literacy in a Diverse Society .................................................................................. 3

Total Units: ............................................................................................................................................................. 120

Note: The following Capstone courses, CHAD 160, CHAD 159 and CHAD 195 may be repeated only once.

BS Industrial Design

Removal of PHIL 57 from Additional Prep Requirements.

Core Lower Division General Education ........................................................................................................ 45

Of the 39 units required by the university, 15 units may be satisfied by coursework outlined below. Courses that meet GE Areas A1, A2, A3 or B4 must be passed with a "C" or better to meet the requirement. Consult with major advisor for details.

Upper Division General Education ................................................................................................................. 9

Of the 9 units required by the university, 0 units may be satisfied by coursework outlined below. Consult with major advisor for details.

American Institutions .............................................................................................................................................. 6

Coursework shown below for the 6 units required by the university are double counted within GE. Consult with major advisor for details.

Complete one sequence from:

Asian American Studies ................................................................................................................................................. 6

AAS 033A. Asian Americans in the United States Historical and Political Process ....M6 ......... 3
AAS 033B. Asian Americans in the United States Historical and Political Process ....M7 ......... 3
U.S. History and Government ......................................................................................................................................... 6
HIST 015A. Essentials of U.S. History ........................................................................................................M12 ...... 3
Can be taken as POLS 015 A/B as well.

Mexican American Studies ............................................................................................................................................. 6

MAS 010A. Mexican Americans and the Development of U.S. History and Government ................................ M6 .... 3
MAS 010B. Mexican Americans and the Development of U.S. History and Government ................................ M7 .... 3

Physical Education ......................................................................................................................................................... 0

Graduation Writing Assessment Requirement .................................................................................. 3

At SJSU, students must pass both the SJSU Writing Skills Test (WST) and a 100W course. For additional information on the WST, please see http://testing.sjsu.edu/wst. Exceptions to the GWAR may be found at http://info.sjsu.edu/gwar.html.

A grade of C or better (C- not accepted) is required to meet graduation requirement.

DSGN 100W. Writing Workshop: Design .............................................................................................. Z ......... 3
## Preparation for the Major

Preparation Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 001</td>
<td>Elementary Physics</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one course from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 070A</td>
<td>Art History, Prehistoric to Medieval</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 070B</td>
<td>Art History, Renaissance to Modern</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 070C</td>
<td>Arts of Asia</td>
<td>3</td>
</tr>
</tbody>
</table>

Highly recommend students take ARTH 070B

### Additional Prep Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSID 021</td>
<td>Visualization I</td>
<td>3</td>
</tr>
<tr>
<td>DSID 022</td>
<td>Visualization II</td>
<td>3</td>
</tr>
<tr>
<td>DSID 031</td>
<td>Industrial Design Foundation I</td>
<td>3</td>
</tr>
<tr>
<td>DSID 032</td>
<td>Industrial Design Foundation II</td>
<td>3</td>
</tr>
</tbody>
</table>

## BS Environmental Studies - Environmental Restoration and Resources

UNVS 15C or UNVS 16C STATWAY courses are not accepted in lieu of STAT 95.

Additional Electives total 3-8 units

## BS Justice Studies

**Correction to Grade Minimum Note**

A grade of "C" or better is required for courses being used to meet any requirement in this major, including courses in preparation for the major.

## BS Kinesiology

Grade Minimum Statement should read:

*A minimum passing grade of "C-" in all major courses.*

## BS Kinesiology - Preparation for Teaching

Physical Education in Schools section missing two courses, should list as follows

### Physical Education in Schools

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 105</td>
<td>Water Safety Instructor's Course</td>
<td>2</td>
</tr>
<tr>
<td>KIN 107</td>
<td>Adapted Aquatics</td>
<td>1</td>
</tr>
<tr>
<td>KIN 156</td>
<td>Introduction to Adapted Physical Activity</td>
<td>3</td>
</tr>
<tr>
<td>KIN 159</td>
<td>Sport and Adapted Activities</td>
<td>3</td>
</tr>
<tr>
<td>KIN 168</td>
<td>Psychology of Coaching</td>
<td>3</td>
</tr>
<tr>
<td>KIN 170B</td>
<td>Field Experience-Teaching</td>
<td>1</td>
</tr>
</tbody>
</table>

*Students will take KIN 170B multiple times for a total of 3 units*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 170C</td>
<td>Fieldwork in Adapted Physical Activity</td>
<td>1-3</td>
</tr>
</tbody>
</table>

*Students will take KIN 170C multiple times for a total of 3 units*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 172</td>
<td>Elementary School Programs, K-6</td>
<td>3</td>
</tr>
<tr>
<td>KIN 173</td>
<td>Intro to Teaching PE &amp; Non-trad Sports</td>
<td>3</td>
</tr>
<tr>
<td>KIN 174</td>
<td>Assessment of Psychomotor Function</td>
<td>3</td>
</tr>
<tr>
<td>KIN 178</td>
<td>Management Practices for Physical Education Teachers</td>
<td>3</td>
</tr>
<tr>
<td>KIN 179</td>
<td>Design and Assessment of Movement Experiences</td>
<td>3</td>
</tr>
</tbody>
</table>

2 Additional Activity course (by advisement) ........................................ 2

Complete one course from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 165</td>
<td>Motor Development</td>
<td>3</td>
</tr>
<tr>
<td>KIN 166</td>
<td>Motor Learning</td>
<td>3</td>
</tr>
</tbody>
</table>

*Whichever was not taken in Core*
BS Athletic Training

Unit adjustment to the following
Core Lower Division General Education 21
Of the 39 units required by the university, 18 units may be satisfied by coursework outlined below. Courses that meet GE Areas A1, A2, A3 or B4 must be passed with a “C” or better to meet the requirement. Consult with major advisor for details.

Also added the following
University Electives 0-3
The option for university electives is determined by how student is advised.

BS Physics

Preparation total is 33 units
Clarified statement on electives which requires
6 units of Advisor Approved Engineering or Science Electives
AND
6 units of Physics and Astronomy electives.

BA Psychology

Correction to Upper Division General Education
Upper Division General Education 9
Of the 9 units required by the university, 0 units may be satisfied by coursework outlined below. Consult with major advisor for details.

BS Software Engineering

Missing Major Exception link
This degree program meets certain University Requirements through approved major modifications. Please see the Major Exceptions area in the Policy and Procedures section of this catalog to identify the specific adjustment/s for this degree program or contact your major advisor for more details.

BA Sociology- All Concentrations

Misplaced Note. Note should be under the following course
SOCI 15
Note: UNVS 015C or UNVS 016C may be used in lieu of the statistics course required by this major through the Summer 2016.

Bachelor of Arts Social Science- Teacher Preparation (Single Subject)

Requirements of the Major
Upper Division Requirements:
GEOG 139 replaces GEOG 12
### College Board Advanced Placement Program (AP)

**AP (Advanced Placement) Exams**  
SJSU grants credit toward its undergraduate degrees for successful completion of examinations of the Advanced Placement Program of the College Board. Students who present scores of three or better will be granted up to six semester units (nine quarter units) of college credit* for each exam (no duplicate credit granted). The number of units granted, course equivalence, and satisfaction of requirements vary.

**Requires scores of 3-5 for credit to be granted as of Fall 2015**

<table>
<thead>
<tr>
<th>EXAM</th>
<th>UNITS</th>
<th>COURSE</th>
<th>GE CREDIT AND COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACS</td>
<td>3</td>
<td>CHEM 030A</td>
<td>Area B1 (3 units, no lab)</td>
</tr>
<tr>
<td>Art History</td>
<td>6</td>
<td>ARTH 070A &amp; 070B</td>
<td>Areas C1 or C2 (3 units)</td>
</tr>
<tr>
<td>Biology</td>
<td>6</td>
<td>BIOL 010</td>
<td>Area B2 &amp; B3 (4 units)</td>
</tr>
<tr>
<td>Calculus AB*</td>
<td>3</td>
<td>MATH 030</td>
<td>Area B4 (3 units); ELM exempt</td>
</tr>
<tr>
<td>Calculus BC*</td>
<td>6</td>
<td>MATH 030 &amp; 031</td>
<td>Area B4 (3 units); ELM exempt</td>
</tr>
<tr>
<td>Calculus BC/AB Subscore*</td>
<td>3</td>
<td>MATH 030</td>
<td>Area B4 (3 units); ELM exempt</td>
</tr>
<tr>
<td>Chemistry</td>
<td>6</td>
<td>CHEM 030A</td>
<td>Area B1 &amp; B3 (4 units)</td>
</tr>
<tr>
<td>Chinese Language &amp; Culture</td>
<td>6</td>
<td>CHIN 001A</td>
<td>Area C2 (4 units)</td>
</tr>
<tr>
<td>Comparative Govt &amp; Politics</td>
<td>3</td>
<td>POLS 002</td>
<td>Area D3 (3 units)</td>
</tr>
<tr>
<td>Computer Science A</td>
<td>3</td>
<td>CS 046A</td>
<td>No GE</td>
</tr>
<tr>
<td>English Language and Composition</td>
<td>6</td>
<td>ENGL 001A</td>
<td>Score 3 = Area A2 (3 units); EPT exempt</td>
</tr>
<tr>
<td>English Language and Composition</td>
<td>6</td>
<td>ENGL 001A &amp; 001B</td>
<td>Score 4-5 = Areas A2 &amp; C2 (6 units); EPT exempt</td>
</tr>
<tr>
<td>English Literature and Composition</td>
<td>6</td>
<td>ENGL 001A &amp; 010</td>
<td>Score 3 = Area A2 &amp; C2 (6 units); EPT exempt</td>
</tr>
<tr>
<td>English Literature and Composition</td>
<td>6</td>
<td>ENGL 001A &amp; 001B</td>
<td>Score 4-5 = Areas A2 &amp; C2 (6 units); EPT exempt</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>4</td>
<td>Elective credit</td>
<td>Area B1 &amp; B3 (4 units)</td>
</tr>
<tr>
<td>European History</td>
<td>6</td>
<td>HIST 010A &amp; 010B</td>
<td>Areas C2 or D2 (3 units)</td>
</tr>
<tr>
<td>French Language &amp; Culture</td>
<td>6</td>
<td>FREN 001A</td>
<td>Area C2 (5 units)</td>
</tr>
<tr>
<td>German Language &amp; Culture</td>
<td>6</td>
<td>GERM 001A</td>
<td>Area C2 (3 units)</td>
</tr>
<tr>
<td>Human Geography</td>
<td>3</td>
<td>GEOG 010</td>
<td>Area D (3 units)</td>
</tr>
<tr>
<td>Italian Language &amp; Culture</td>
<td>6</td>
<td>ITAL 001A</td>
<td>Area C2 (3 units)</td>
</tr>
<tr>
<td>Japanese Language &amp; Culture</td>
<td>6</td>
<td>JPN 001A</td>
<td>Area C2 (5 units)</td>
</tr>
<tr>
<td>Latin</td>
<td>3</td>
<td>LATN 001A</td>
<td>Area C2 (3 units)</td>
</tr>
<tr>
<td>Macroeconomics</td>
<td>3</td>
<td>ECON 001A</td>
<td>Area D1 (3 units)</td>
</tr>
<tr>
<td>Microeconomics</td>
<td>3</td>
<td>ECON 001B</td>
<td>Area D1 (3 units)</td>
</tr>
<tr>
<td>Music Theory</td>
<td>6</td>
<td>Elective credit</td>
<td>No GE</td>
</tr>
<tr>
<td>Physics B**</td>
<td>4</td>
<td>PHYS 002A</td>
<td>Areas B1 &amp; B3 (4 units)</td>
</tr>
<tr>
<td>Physics 1**</td>
<td>4</td>
<td>PHYS 002A</td>
<td>Areas B1 &amp; B3 (4 units)</td>
</tr>
<tr>
<td>Physics 2</td>
<td>4</td>
<td>PHYS 002B</td>
<td>Areas B1 &amp; B3 (4 units)</td>
</tr>
<tr>
<td>Physics C, Elec &amp; Mag</td>
<td>4</td>
<td>PHYS 051</td>
<td>Areas B1 &amp; B3 (4 units)</td>
</tr>
<tr>
<td>Physics C, Mechanics</td>
<td>4</td>
<td>PHYS 050</td>
<td>Areas B1 &amp; B3 (4 units)</td>
</tr>
<tr>
<td>Psychology</td>
<td>3</td>
<td>PSYC 001</td>
<td>Area D (3 units)</td>
</tr>
<tr>
<td>AP Seminar</td>
<td>3</td>
<td>Elective Credit</td>
<td>No GE</td>
</tr>
<tr>
<td>Spanish Language and Culture</td>
<td>6</td>
<td>SPAN 001A</td>
<td>Area C2 (4 units)</td>
</tr>
<tr>
<td>Spanish Literature and Culture</td>
<td>6</td>
<td>SPAN 001B</td>
<td>Area C2 (4 units)</td>
</tr>
<tr>
<td>Statistics</td>
<td>3</td>
<td>SOCI 015</td>
<td>Area B4 (3 units); ELM exempt</td>
</tr>
<tr>
<td>Studio Art, 2D Design</td>
<td>3</td>
<td>ART 012</td>
<td>No GE</td>
</tr>
<tr>
<td>Studio Art, 3D Design</td>
<td>3</td>
<td>Elective credit</td>
<td>No GE</td>
</tr>
</tbody>
</table>

*ends Fall 2015*
** if both AP Physics B and AP Physics 1 are taken then the total units granted will be 6 units, of which 4 units will apply to PHYS 4A meeting GE Areas B1+B3, and 2 units to elective credit.

*Students may receive credit for only one calculus exam.

** if both AP Physics B and AP Physics 1 are taken then the total units granted will be 6 units, of which 4 units will apply to PHYS 4A meeting GE Areas B1+B3, and 2 units to elective credit.

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### Addendum to Catalog

**THE FOLLOWING ARE CORRECTIONS TO REQUIREMENTS IN DEGREES AND POLICY AND PROCEDURES**

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### College Level Exam Program - CLEP

Requires score of at least 50 for subject exams. Students may not receive more than 30 units of CLEP credit.

#### BUSINESS EXAMS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Course</th>
<th>GE Credit (Comments)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Financial Accounting</td>
<td>3</td>
<td>Elective credit</td>
<td>No GE</td>
</tr>
<tr>
<td>Information Systems &amp; Computer Applications</td>
<td>3</td>
<td>Elective credit</td>
<td>No GE</td>
</tr>
<tr>
<td>Introductory Business Law</td>
<td>3</td>
<td>BUS3 080</td>
<td>No GE</td>
</tr>
<tr>
<td>Principles of Management</td>
<td>3</td>
<td>Elective credit</td>
<td>No GE</td>
</tr>
<tr>
<td>Principles of Marketing</td>
<td>3</td>
<td>Elective credit</td>
<td>No GE</td>
</tr>
</tbody>
</table>

#### COMPOSITION AND LITERATURE EXAMS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Course</th>
<th>GE Credit (Comments)</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Literature</td>
<td>6</td>
<td>Elective credit</td>
<td>Area C2 (3 units)</td>
</tr>
<tr>
<td>Analyzing &amp; Interpreting Literature</td>
<td>6</td>
<td>Elective credit</td>
<td>Area C2 (3 units)</td>
</tr>
<tr>
<td>College Composition*</td>
<td>6</td>
<td>ENGL 001A</td>
<td>Area A2 (3 units)</td>
</tr>
<tr>
<td>College Composition Modular*</td>
<td>6</td>
<td>ENGL 001A</td>
<td>Area A2 (3 units)</td>
</tr>
<tr>
<td>English Literature</td>
<td>6</td>
<td>Elective credit</td>
<td>Area C2 (3 units)</td>
</tr>
<tr>
<td>Freshman College Composition</td>
<td>0</td>
<td>No credit</td>
<td>No GE</td>
</tr>
<tr>
<td>Humanities</td>
<td>6</td>
<td>Elective credit</td>
<td>Area C1 &amp; C2 (3 units each)</td>
</tr>
</tbody>
</table>

*Beginning July 2010 credit and GE may be earned for either College Composition or College Composition Modular, but not for both exams.

#### WORLD LANGUAGE EXAMS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Course</th>
<th>GE Credit (Comments)</th>
</tr>
</thead>
<tbody>
<tr>
<td>French Language (Level 1 = min score of 50)</td>
<td>6</td>
<td>Elective credit</td>
<td>No GE</td>
</tr>
<tr>
<td>French Language (Level 2* = min score of 59)</td>
<td>12</td>
<td>Elective credit</td>
<td>Area C2 (4 units)</td>
</tr>
<tr>
<td>German Language (Level 1 = min score of 50)</td>
<td>6</td>
<td>Elective credit</td>
<td>No GE</td>
</tr>
<tr>
<td>German Language (Level 2* = min score of 60)</td>
<td>12</td>
<td>Elective credit</td>
<td>Area C2 (3 units)</td>
</tr>
<tr>
<td>Spanish Language (Level 1 = min score of 50)</td>
<td>6</td>
<td>SPAN 001A</td>
<td>Area C2 (4 units)</td>
</tr>
<tr>
<td>Spanish Language (Level 2* = min score of 63)</td>
<td>12</td>
<td>SPAN 001A, 001B</td>
<td>Area C2 (8 units)</td>
</tr>
</tbody>
</table>

*If the student receives credit for Level 2 exam, they may not receive credit for Level 1 exam in the same language.

#### HISTORY AND SOCIAL SCIENCES EXAMS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Course</th>
<th>GE Credit (Comments)</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Government</td>
<td>3</td>
<td>Elective credit</td>
<td>Areas US 2 &amp; D3 (3 units)</td>
</tr>
<tr>
<td>History of the U.S. I: Early Colon. to 1877</td>
<td>3</td>
<td>Elective credit</td>
<td>Areas US 1 &amp; D2 (3 units)</td>
</tr>
<tr>
<td>History of the U.S. II: 1865 to Present</td>
<td>3</td>
<td>Elective credit</td>
<td>Areas US 1 &amp; D2 (3 units)</td>
</tr>
<tr>
<td>Human Growth &amp; Development</td>
<td>3</td>
<td>HS 015</td>
<td>Area E (3 units)</td>
</tr>
<tr>
<td>Macroeconomics, Principles of</td>
<td>3</td>
<td>ECON 001A</td>
<td>Area D1 (3 units)</td>
</tr>
<tr>
<td>Microeconomics, Principles of</td>
<td>3</td>
<td>Elective credit</td>
<td>Area D1 (3 units)</td>
</tr>
<tr>
<td>Psychology, Intro to Educational</td>
<td>3</td>
<td>Elective credit</td>
<td>No GE</td>
</tr>
<tr>
<td>Psychology, Introductory</td>
<td>3</td>
<td>PSYC 001</td>
<td>Area D (3 units)</td>
</tr>
<tr>
<td>Social Sciences &amp; History</td>
<td>6</td>
<td>Elective credit</td>
<td>Area D (3 units)</td>
</tr>
<tr>
<td>Sociology, Introductory</td>
<td>3</td>
<td>SOCI 001</td>
<td>Area D (3 units)</td>
</tr>
<tr>
<td>Western Civilization I: Ancient Near East to 1648</td>
<td>3</td>
<td>Elective credit</td>
<td>Area C2 or D2 (3 units)</td>
</tr>
<tr>
<td>Western Civilization II: 1648 to Present</td>
<td>3</td>
<td>Elective credit</td>
<td>Area D2 (3 units)</td>
</tr>
</tbody>
</table>
Addendum to Catalog

General Education (GE) - CORE (Basic Skills and Basic Knowledge of an Educated Person)

Core GE Courses (Basic Skills and Basic Knowledge of an Educated Person)

Students must complete 39 units of Core GE courses.

Basic Skills

9 units

Complete one course each in Oral Communication, Written Communication IA, and Critical Thinking and Writing.

Oral Communication (A1)

Oral Communication courses should cultivate an understanding of the social, psychological, political and practical significance of communication, with special emphasis on the roles of public communication in a free society.

Comm 020 .................... Public Speaking
Comm 020N ................... Public Speaking for Nonnative Speakers
Comm 040 .................... Argumentation & Advocacy
Comm 096PS ................ Public Speaking
Hum 001A-B ^ ............. Background of Western Culture & Society
Hum 002A-B ^ ............. Modern Culture & Social Institutions
Mas 074 ..................... Public Address

Written Communication I (A2)

Students must satisfy the English Placement Test requirement prior to enrollment.

Written communication IA courses should cultivate an understanding of the writing process and the goals, dynamics, and genres of written communication, with special attention to the nature of writing at the university.

EnGL 001A ..................... Composition I
Ha 096S ...................... First Year Composition, Stretch II
Hum 001A-B ^ ............. Background of Western Culture & Society
Hum 002A-B ^ ............. Modern Culture & Social Institutions

Critical Thinking and Writing (A3)

Critical thinking courses should help students learn to recognize, analyze, evaluate, and produce reasoning.

Comm 041 ..................... Critical Decision Making
Comm 045 ..................... Media and Culture
EnGL 002 ..................... Composition 2
EnGL 007 ..................... Critical Thinking
Hist 050 ..................... Historical Process: Understanding Historical Reasoning
Hum 001A-B ^ ............. Background of Western Culture & Society
Hum 002A-B ^ ............. Modern Culture & Social Institutions
Ling 021 ..................... Language & Thinking
Phil 057 ..................... Logic & Critical Reasoning
POLS 020 ......................... Controversial Legal Issues
^ = Course meets extra Area “C”

Science and Mathematical Concepts

9 units

Complete at least one 3-unit course in Physical Science, Life Science, and Mathematical Concepts. At least one lab course (L) must be included.

<table>
<thead>
<tr>
<th>PHYSICAL SCIENCE (B1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>In Science courses, students should master sufficiently essential quantitative and qualitative skills that are necessary to understand scientific knowledge and methods. Students should be able to incorporate scientific knowledge into the workplace and everyday life experiences.</td>
</tr>
<tr>
<td>ASTR 010 .................. Descriptive Astronomy</td>
</tr>
<tr>
<td>CHEM 001A (L)* .......... General Chemistry</td>
</tr>
<tr>
<td>CHEM 001B (L)* .......... General Chemistry</td>
</tr>
<tr>
<td>CHEM 030A (L) .......... Introductory Chemistry</td>
</tr>
<tr>
<td>ENGR 005 ................. Science of High Technology</td>
</tr>
<tr>
<td>GEOG 001 ................. Geography of Natural Environments</td>
</tr>
<tr>
<td>GEOL 001 (L) .......... General Geology</td>
</tr>
<tr>
<td>GEOL 003 ................. Planet Earth</td>
</tr>
<tr>
<td>GEOL 006 ................. Geology of California</td>
</tr>
<tr>
<td>GEOL 007 (L) .......... Earth, Time &amp; Life</td>
</tr>
<tr>
<td>GEOL 009 (L) .......... Earth Disasters</td>
</tr>
<tr>
<td>METR 010 ................. Weather &amp; Climate</td>
</tr>
<tr>
<td>METR 012 ................. Global Warming</td>
</tr>
<tr>
<td>NUFS 001A ............... Physical Science of Foods</td>
</tr>
<tr>
<td>PHYS 001 ................. Elementary Physics</td>
</tr>
<tr>
<td>PHYS 002A(L)* .......... Fundamentals of Physics</td>
</tr>
<tr>
<td>PHYS 002B(L)* .......... Fundamentals of Physics</td>
</tr>
<tr>
<td>PHYS 0050(L)* .......... General Physics</td>
</tr>
<tr>
<td>PHYS 0051(L)* .......... General Physics</td>
</tr>
<tr>
<td>PHYS 0052(L)* .......... General Physics</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>LIFE SCIENCE (B2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 012 .......... Introduction to Human Evolution</td>
</tr>
<tr>
<td>BIOL 001A (L)* .... Foundations of Biodiversity</td>
</tr>
<tr>
<td>BIOL 001B (L)* .... Foundations of Cell Biology &amp; Physiology</td>
</tr>
<tr>
<td>BIOL 010 ............. The Living World</td>
</tr>
<tr>
<td>BIOL 020 (L) ........ Ecological Biology</td>
</tr>
<tr>
<td>BIOL 021 (L) ........ Human Biology</td>
</tr>
<tr>
<td>BIOL 065 (L)* ....... Human Anatomy</td>
</tr>
<tr>
<td>BIOL 065O* .......... Human Anatomy</td>
</tr>
<tr>
<td>BIOL 066* ......... Human Physiology</td>
</tr>
<tr>
<td>ENVS 010 .............. Life on a Changing Planet</td>
</tr>
<tr>
<td>GEOL 008 .............. Age of Dinosaurs</td>
</tr>
<tr>
<td>MICR 020 (L)* ......... General Bacteriology</td>
</tr>
<tr>
<td>NUFS 016 .............. Science, Physiology, &amp; Nutrition</td>
</tr>
<tr>
<td>UNVS 096GB ............. Global Citizenship: A Life Science Perspective</td>
</tr>
</tbody>
</table>
LABORATORY SCIENCE (B3)

The following courses meet the Lab requirement only.

- ASTR 102 (L) Astronomy Lab (1 unit)
- BIOL 065L Anatomy Lab for Transfer Students
- BIOL 150/GEOL 150 (L) Fld Stds Nat Hist (1-2 units)
- GEOL 004L Planet Earth Lab
- PHYS 001L (L) Elem Phys Lab (1 unit)

*Intensive Science

Students who have completed the Intensive science courses listed, with a "C" or better, will be allowed to use these courses to fulfill the requirement in B2, B3 or B1.

B3 Students may petition to have (1) grades below C (very rarely approved), or (2) other Intensive Science courses not on the list approved as intensive science courses. See details on the petition at: http://www.sjsu.edu/ugs/students/petitions/list/index.html.

MATHEMATICAL CONCEPTS (B4)

Mathematical concepts courses enable students to use numerical and graphical data in personal and professional judgments and in coping with public issues. You must satisfy the Entry Level Mathematics requirement prior to enrollment in one course from the following:

- HS 067 Introductory Health Statistics
- BIOL 055 Introduction to Biostatistics
- MATH 008 College Algebra
- MATH 010 Mathematics for General Education
- MATH 012 Number Systems
- MATH 019 Precalculus
- MATH 030* Calculus I
- MATH 030P* Calculus I with Precalculus
- MATH 030PL* Calculus I with Precalculus
- MATH 031* Calculus II
- MATH 032* Calculus III
- MATH 060* Calculus for Biological Sciences
- MATH 070* Finite Mathematics
- MATH 071* Calculus for Business and Aviation
- PHIL 009 Math & Logic for General Education
- SOCI/SOCS 015 Statistical Applications in the Social Sciences
- STAT 095 Elementary Statistics
- UNVS 015C Statway C: Statistics-Concepts & Methods
- UNVS 016C Statway C: Statistics-Concepts & Methods

*Intensive Math

Students who have not completed a course satisfying Area B4, and who have completed MATH 030, MATH 030P, MATH 030PL, MATH 031, MATH 032, MATH 060, MATH 070, or MATH 071, with a grade of “C” or better (“C-” not included) will be allowed to use one of these courses to fulfill the Area B4 requirement.

Humanities & Arts

9 units

Effective Fall 2014, Area C3 has been discontinued. Completion of 9 units in Area C is still required.

Complete one course each in Arts and in Letters, and a third course from either Arts of Letters

Arts and Letters courses should give students knowledge and understanding of significant works of the human intellect and imagination. Courses should enable students to participate in social and cultural communities associated with artistic and literary endeavors, enriching their personal and professional lives.
Addendum to Catalog

THE FOLLOWING ARE CORRECTIONS TO REQUIREMENTS IN DEGREES AND POLICY AND PROCEDURES

ARTS (C1)
AMS 001A-B ................ American Civilization
ARTH 015 .................... Intro to Visual Culture
ARTH 070A .................. Art History, Prehistoric to Medieval
ARTH 070B .................. Art History, Renaissance to Modern
ARTH/ASIA 070C ........ Arts of Asia
ARTH 072 ..................... Design in Society
DANC 010 .................... Dance Appreciation
FORL 025 ..................... World Cultures through Literature and Cinema
HUM 001A-B^................ Background of Western Culture & Society
HUM 002A-B^................ Modern Culture & Social Institutions
KIN 068 ....................... Visual Representations of Sport in Popular Culture
MUSC 004A .................. Music Systems IVA
MUSC 004B .................. Music Systems IVB
MUSC 010A .................. Music Appreciation
MUSC 010B .................. Introduction to Music
MUSC/ASIA 019 .......... Music in World Cultures
PHIL 066 ..................... Introduction to Aesthetics
RTVF 010 ..................... The Art of Film
TA 005 ....................... Acting
TA 010 ....................... Theatre Appreciation

LETTERS (C2)
AMS 001A-B ................ American Civilization
CHIN 001A .................... Elementary Chinese
CHIN 001B .................... Elementary Chinese
CHIN 025A .................... Intermediate Chinese
CHIN 025B .................... Intermediate Chinese
ENGL 001B ................ Composition 2
ENGL 010 ..................... Great Works of Literature
ENGL 020 ..................... The Graphic Novel
ENGL 021 ..................... Mystery Fiction
ENGL 022 ..................... Fantasy & Science Fiction
ENGL 040 ..................... Contemporary World Fiction
ENGL 071 ..................... Creative Writing
ENGL 078 ..................... Introduction to Shakespeare’s Drama
FORL 025 ..................... World Cultures through Literature and Cinema
FREN 001A ................ Elementary French
FREN 001B ................ Elementary French
FREN 025A ................ Intermediate French: Reading
FREN 025B ................ Intermediate French: Writing
GERM 025A ................ Intermediate German
GERM 025B ................ Intermediate German
HUM 001A-B ^............. Background of Western Culture & Society
HUM 002A-B ^............. Modern Culture & Social Institutions
JPN 001A ..................... Elementary Japanese
JPN 001B ..................... Elementary Japanese
JPN 025A ..................... Intermediate Japanese
JPN 025B ..................... Intermediate Japanese
Addendum to Catalog

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THE FOLLOWING ARE CORRECTIONS TO REQUIREMENTS IN DEGREES AND POLICY AND PROCEDURES

Social Science

9 units

Complete one course each in Human Behavior, Comparative Systems, and Social Issues.

Social Science courses should increase the student’s understanding of human behavior and social interaction in the context of value systems, economic structures, political institutions, social groups, and natural environments

**HUMAN BEHAVIOR (D1)**

Human Behavior courses will enable students to be able to recognize the interaction of social institutions, culture, and environment with the behavior of individuals.

- ANTH 011. Cultural Anthropology
- CHAD 075. Imagination, Play & Adult Creativity
- CMPE/CS/BUS4 025. The Digital World & Society
- COMM 010. Communication & Human Relationships
- COMM 021. Performing Culture & Society
- ECON 001B. Principles of Economics: Microeconomics
- ENGR/TECH 098. Technology & Women
- GEOG 010. Cultural Geography
- HS/GERO/RECL 015. Human Life Span
- LING 020. Nature of Language
- MAS 030. Race & Ethnicity in Public Space
- OCTH 010. Homeless Americans: Loss of the American Dream
- POLS 014Q. Awake in Utopia
- PSYC 001. General Psychology
- PSYC 082. Child & Adolescent Psychology
- SOCI 001. Introduction to Sociology
- UNVS 096GD. Global Citizenship: A Social Sciences Perspective
- WOMS 005Q. Gender, Race & Sexuality in Media
- WOMS 010. Perspectives on Sex & Gender Roles

^ = Course meets extra Area “C”
COMPARATIVE SYSTEMS (D2)

Courses in this area will enable students to compare and contrast two or more ethnic groups, cultures, regions, nations, or social systems.

AAS 033A-B .................... Asian Americans in the United States Historical & Political Process
AAS/AFAM/MAS 025 The Changing Majority: Power & Ethnicity in America
AFAM 002 A-B............... African-Americans and the Development of America’s History and Government
AMS 001A-B ................. American Civilization
CEOC 012 .................. Global Geography
HIST 010A ................. Western Civilization
HIST 010B ................. Western Civilization
HIST/POLS 015A ....... U.S. History & Government
HUM 001A-B ................. Background of Western Culture & Society
HUM 002A-B ................. Modern Culture and Social Institutions
MAS 10A-10B ........ Mexican Americans & the Development of U.S. History and Government
POLS 002 .................. Introduction to Comparative Politics
WOMS/AAS 020 .......... Women of Color in the US

SOCIAL ISSUES (D3)

Social Issues courses will enable students to apply multidisciplinary material to a topic relevant to policy and social action at the local, national, and/or international levels.

AAS 033A-B .................... Asian Americans in the United States Historical & Political Process
AMS 001A-B ................... American Civilization
ENVS 001 ......................... Introduction to Environmental Issues
AFAM 002 A-B ............... African-Americans and the Development of America’s History and Government
HIST/POLS 015B ......... U.S. History & Government
HUM 001A-B ................. Background of Western Culture & Society
HUM 002A-B ................. Modern Culture and Social Institutions
JS 025 .................. Introduction to Human Rights and Justice
MAS 10A-B ................ Mexican Americans & the Development of U.S. History and Government
MCOM 072 .................... Mass Communication & Society
POLS 004 .................. Introduction to International Relations
SOCI 080 .................. Social Problems

Human Understanding & Development

3 units

Complete one course.

Human Understanding and Development courses will enable students to understand themselves as integrated physiological, social, and psychological entities who are able to formulate strategies for lifelong personal development. Students will also learn skills to employ available university resources to support academic and personal development.

HUMAN UNDERSTANDING & DEVELOPMENT (E)

ANTH 025 .................. Human Lifecourse in Context
BIOL 054 .................. Human Understanding
BUS 012 .................. Money Matters
CA 060 .................. Creativity Matters
CHAD 060 ............... Child Development
CHAD 070 ............... Lifespan Development in the 21st Century
COMM 074 .................. Fundamentals of Intercultural Communication
COMM 074Q ........ Fundamentals of Intercultural Communication
EDCO 004 ........ Personal, Academic & Career Exploration
ENGR 010 .................. Introduction to Engineering
### American Institutions Courses

6 Units

- All three requirements (US History, US Constitution, and California Government) must be completed from the following course work.
- Courses do not satisfy Core GE unless there is a GE area designator in parentheses.
- The WST is a prerequisite for HIST 170S and POLS 170V only.

Courses in American Institutions should expose students to alternative interpretations of the historical events and political processes that have shaped the social, economic, and political systems in which we live.

**US HISTORY, US CONSTITUTION & CALIFORNIA GOVERNMENT (US 1-2-3)**

- All courses in the sequence must be completed to satisfy the requirement.
- Courses do not satisfy Core GE unless there is a GE area designator in parentheses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>GE Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 033A-B</td>
<td>Asian Americans in the US Historical &amp; Political Process</td>
<td>D2/3</td>
</tr>
<tr>
<td>AFAM 002A-B</td>
<td>African-Americans &amp; the Development of America's History and Government</td>
<td>D2/3</td>
</tr>
<tr>
<td>AMS 001A-B</td>
<td>American Civilization</td>
<td>C1/2, D2/3</td>
</tr>
<tr>
<td>HUM 001A-B</td>
<td>Background of Western Culture &amp; Society</td>
<td>A2, C1/2, D2</td>
</tr>
<tr>
<td>HUM 002A-B</td>
<td>Modern Culture &amp; Social Institutions</td>
<td>A1/3, C/3, D/3</td>
</tr>
<tr>
<td>MAS 010A-B</td>
<td>Mexican Americans &amp; the Development of US History and Government</td>
<td>D2/3</td>
</tr>
</tbody>
</table>

**AMERICAN HISTORY ONLY (US 1)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>GE Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST/POLS 015A</td>
<td>US History &amp; Government</td>
<td>D2</td>
</tr>
<tr>
<td>HIST 020A-B</td>
<td>History of the American People</td>
<td></td>
</tr>
</tbody>
</table>

**US CONSTITUTION & CALIFORNIA GOVERNMENT ONLY (US 2-3)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>GE Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 001</td>
<td>American Government</td>
<td></td>
</tr>
<tr>
<td>POLS/HIST 015B</td>
<td>US History &amp; Government</td>
<td>D3</td>
</tr>
<tr>
<td>POLS 170V</td>
<td>Am Politics-Global Perspective</td>
<td>V</td>
</tr>
</tbody>
</table>

**CALIFORNIA GOVERNMENT ONLY (US 3)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>GE Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 189A</td>
<td>California to 1900</td>
<td></td>
</tr>
<tr>
<td>HIST 189B</td>
<td>California from 1900</td>
<td></td>
</tr>
<tr>
<td>POLS 102</td>
<td>State Government &amp; Politics</td>
<td></td>
</tr>
</tbody>
</table>
Academic Year
2015-2016

Addendum to Catalog

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September 2015

THE FOLLOWING ARE CORRECTIONS 
TO REQUIREMENTS IN DEGREES AND 
POLICY AND PROCEDURES

SJSU Studies

Formerly Advanced GE

Students must complete 12 units of SJSU Studies courses.

- All SJSU Studies courses must be completed at SJSU, unless a complete 48 unit GE Certification from another CSU is submitted, showing lower and upper division completed.
- Complete one SJSU Studies course in each category.
- Completing Area Z with a grade of C or better (C-not accepted) is a graduation requirement.
- Prior to enrollment, all courses require completion of core GE, satisfaction of Writing Skills Test and upper division standing. Pre/Co-requisite of a 100W course is strongly recommended.
- Students who fail the WST must consult their major advisors for appropriate preparation for SJSU Studies courses.
- Students can satisfy Areas R, S, & V by taking COMM/ENVS/GEOL/HUM/METR 168A/168B: Global Climate Change or HUM 177A/177B: Advance Honors in Integrated Science, Social Science and Humanities. These are year-long courses: students enroll in 6 units in the Fall and 3 units in the Spring. By successfully completing this course sequence with a “C or Better” in each semesters, students will fulfill all 9 required units of SJSU Studies: Areas R, S, & V.
- Second baccalaureate students who earned their first bachelor degree from a regionally accredited institution in the U.S. are not required to take SJSU Studies unless specific courses are required by the major. (Effective Fall 2011)
- All first baccalaureate students are required to have a a minimum aggregate GPA of 2.0 in their SJSU Studies courses (Areas R, S, & V). If more than one course is taken in any of the individual R, S, or V areas, then the highest grade in that individual area will be used to calculate the aggregate SJSU Studies GPA. This policy is effective Fall 2011 for all SJSU students who do not have catalog rights prior to Fall 2011.

Areas R, S, and V.

9 units

Complete one 3-unit course from each category.

EARTH & ENVIRONMENT (R)

Courses in Earth and Environment will cultivate a student’s knowledge of the scientific study of the physical universe and its life forms. Students will understand and appreciate the interrelationship of science and human beings to each other.

ANTH 160 ......................................................................................... Reconstructing Lost Civilizations
ASTR 101 ........................................................................................... Modern Astronomy
BIOL 101 ........................................................................................... Origins of Life
BIOL 110 ........................................................................................... Biodiversity & Biopolitics
BIOL 135B* ...................................................................................... Eukaryotic Cell and Molecular Biology II
BIOL/BOT 160* ............................................................................. Ecology
CHEM 131B* ................................................................................... Biochemistry Lab
COM/ENVS/GEOL/HUM/METR 168A/168B**... Global Climate Change
ENGR 100W* ................................................................................. Engineering Reports (Z)
ENGR 108 ......................................................................................... Green Electronics
ENVS 119 .......................................................................................... Energy and the Environment
ENVS/PKG 152 .............................................................................. Environmental Issues & Global Distribution of Goods
GEOL 103 ......................................................................................... Earth Systems & the Environment
GEOL 105 ......................................................................................... General Oceanography
GEOL 107 ........................................................................................ Prehistoric Life
GEOL/ENVS 111 ............................................................................ Geology & the Environment
GEOL 112 ......................................................................................... Hazards, Risks of Earthquakes & Volcanoes
GEOL 171 ......................................................................................... The End of the World (as you knew it)
HS 172 .............................................................................................. Contemporary Environmental Health Issues
HUM 177A/177B** ........................................................................ Advance Honors in Integrated Science, Social Science and Humanities
LING 123 ........................................................................................ Sound & Communication
MICR 127 ......................................................................................... Microbial Physiology
METR 112 ......................................................................................... Global Climate Changes
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**Successful completion of this year-long course (with a “C or Better” in each semester) satisfies Areas R,S,& V.**

**SELF, SOCIETY & EQUALITY IN THE U.S. (5)**

In these courses, students will study the interrelationships of individuals, racial groups, and cultural groups to understand and appreciate issues of diversity, equality, and structured inequality in the U.S., its institutions, and its cultures.

- AE 172A* ................................................................. Spaceship Design I
- AE 171A* ................................................................. Aircraft Design I
- AAS 175 ............................................................... Asian American Communities
- AAS 185 ............................................................... Multicultural Perspectives within American Society
- AMS/HUM 169 .................................................... The American Dream
- ANTH/BIOL/HS 140 ............................................. Human Sexuality
- BME 198A* ............................................................ Senior Design Project I
- CA/ENGL/MUSC/TA 172 .................................... The Arts in US Society
- CHAD 102 ............................................................. Development of Self in a Culturally Diverse Society
- CHE 160B* ............................................................. Unit Operations II
- COMM/ENVS/GEOL/HUM/METR 168A/168B** ... Global Climate Change
- COMM 174 ........................................................... Intercultural Comm & Struct Inequality
- CMPE/SE 195A ...................................................... Senior Design Project I
- EDUC/APSC/COMM/ENGR/HA/SCI 157 ........... Community Action/Community Service
- EDUC/APSC/COMM/ENGR/HA/SCI 157SL ... Community Action/Community Service
- EE 198A* .............................................................. Senior Design Project I
- ENGL 117A ............................................................ American Literature, Film, & Culture
- ENGL 169 ............................................................. Ethnicity in American Literature
- ENGR 195A* .......................................................... Global and Social Issues in Engineering
- ENV 150 ............................................................... Introduction to Environmental Thought
- GEOG/SOC/ANTH/HIST 138 ......................... United States in Historical & Social Science Perspectives
- GER/HS/SCWK 107 .............................................. Aging & Society
- HIST 1705 .......................................................... Topics Am History: Am Identities (US 1)
- HIST 188 ............................................................. History of Women in the United States
- HUM 177A/177B** ................................................. Advance Honors in Integrated Science, Social Science and Humanities
- HPRF/HS/NUS/NURS/OCTH 135 ..................... Health Issues in a Multicultural Society
- ISE 195A* ............................................................. Senior Industrial Engineering Design I
- JS 132 ................................................................. Race, Gender, Inequality & the Law
- KIN 101 ............................................................... Sport in America
- KIN/HS 169 .......................................................... Diversity, Stress & Health
- LING 129 ............................................................ Culture, Language and Ethnicity in the U.S.
- MAS 130 ............................................................. Chicanas & Chicanos in American Society
- MAS 160 ............................................................. Gender and Sexuality in the Chicana/o Community
- MATE 198A* ........................................................ Senior Design Project
**Successful completion of this year-long course (with a "C or Better" in each semester) satisfies Areas R,S,& V.**

### CULTURE, CIVILIZATION & GLOBAL UNDERSTANDING (V)

In these courses, students should receive an appreciation for human expression in cultures outside the U.S. and an understanding of how that expression has developed over time. Additionally, students should understand how traditions of cultures outside the U.S. have influenced American culture and society.

- AE 172B* ................................................................. Spacecraft Design II
- AE 171B* ................................................................. Aircraft Design II
- AMS/ENVS/HUM 159 ............................................ Nature & World Cultures
- ARTH/ASIA 115 .................................................... The Emerging Global Culture
- ARTH 146 ............................................................... Culture & Conflict
- ARTH 193A ............................................................. Worlds of Art & Culture
- ARTH/ASIA 193B .................................................... East Meets West in Art
- BME 198B* .............................................................. Senior Design Project II
- CA/ENGL/MUSC/TA 173 ........................................ Thinking About Contemporary World Arts
- CHAD 106 ............................................................... Concepts of Childhood
- CHE 165* ............................................................... Plant Design
- CHIN/ASIA 140 ...................................................... Chinese Culture & Politics Through Literature
- COMM/ENVS/GEOL/HUM/METR 168A/168B** ........ Global Climate Change
- COMM 179 ........................................................... Media & Resistance
- CMPE/SE 195B* ..................................................... Senior Design Project II
- DANC 102 ............................................................ Dance in World Cultures
- EE 198B* ............................................................... Senior Design Project II
- ENGL 117B ............................................................ Global Film, Literature & Cultures
- ENGL 123A .............................................................. Literature for Global Understanding: The Americas
- ENGL 123B .............................................................. Literature for Global Understanding: Africa
- ENGL 123C .............................................................. Literature for Global Understanding: Oceania
- ENGL 123D .............................................................. Literature for Global Understanding: Asia/25/1
- ENGL/JWSS/HUM/FORL 126 ....................... Holocaust Literature
- ENGR 195B* ............................................................. Global and Social Issues in Engineering
- FREN 102B .......................................................... Francophone Cultures: Through Literature & Cinema
- GEOG 112 .............................................................. Nations, Cultures & Territorial Disputes
- GEOG/SOCS/ANTH/HIST 139 .................. The World in Historical & Social Science Perspectives
- GLST 143 ............................................................. Technology, Politics, and International Development
- GLST 188 ............................................................ Special Topics in International Experiences

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*For specific department/program majors only

** Successful completion of this year-long course (with a "C or Better" in each semester) satisfies Areas R,S,& V.
THE FOLLOWING ARE CORRECTIONS TO REQUIREMENTS IN DEGREES AND POLICY AND PROCEDURES

Addendum to Catalog

v01
September 2015

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HIST 153 ................................................................. History of Women in Europe
HIST 155 ................................................................. 20th Century World
HUM/ANTH/ASIA/RELS 114 ...................................... Legacy of Asia
HUM 128 ................................................................. Perspectives on the Twentieth Century: The West in a Global Context
HUM 177A/177B** ................................................... Advance Honors in Integrated Science, Social Science and Humanities
ISE 195B* .............................................................. Senior Industrial Engineering Design II
JS 171 ................................................................. Human Rights & Justice
LING/ASIA 122 ...................................................... English as a World Language
MATE 198B* .......................................................... Senior Design Project
ME 195B* ............................................................. Senior Design Project II
MUSC 117 ............................................................. Music & Culture in Latin America
NUFS 144 .............................................................. Food Culture: Consuming Passions
PHIL/ASIA/RELS 104 ............................................. Asian Philosophy
PHIL 110 .............................................................. Science, Technology & Human Values
PHIL 133 .............................................................. Ethics in Science
PHIL 134 .............................................................. Computers, Ethics, & Society
POLS 150 ............................................................. War & Peace
POLS 170V .............................................................. Am Politics-Global Perspective (US 2/US 3)
RELS/ANTH 122 .................................................... Magic, Science & Religion
RELS/ANTH/MDES 145 ....................................... Middle Eastern Traditions
RTVF 111 ............................................................... Alternative Cinema
SPAN 102B ........................................................ Hispanic American Culture
TA/ENGL 127 ....................................................... Contemporary Theatre
TECH/CMPE/ENGR/AE/ME 198 ......................... Technology & Civilization
UNVS 109 ........................................................... Climate Solutions Initiative
WOMS 102 .............................................................. The Global Study of Women

*For specific department/program majors only
** Successful completion of this year-long course (with a "C or Better in each semester") satisfies Areas R,S,& V.

Written Communication II

3 units

All students must satisfy Area Z by

• earning a “C or better” in English 2/001B (or equivalent) or [Effective Fall 2014 or later] Area A3 course (Critical Thinking and Writing), with a “C or better”, which is prerequisite to registering for the WST and for 100W courses. A “C-” is not acceptable.

• taking one of the courses listed below that is approved by their major;

• completing the Graduation Writing Assessment Requirement (GWAR) during enrollment at another CSU or equivalent course work at another university prior to SJSU enrollment;

• obtaining a waiver score on the WST. If you waive 100W, you only need to complete 9 units of SJSU Studies in Earth & Environment; Self, Society & Equality in the U.S.; and Culture, Civilization & Global Understanding.

• Completing Area Z with a grade of C or better (C-not accepted) is a graduation requirement.

In written communication II courses, students will develop advanced proficiency in college-level writing and appropriate contemporary research strategies and methodologies to communicate effectively to both specialized and general audiences.

WRITTEN COMMUNICATION II (Z)
AFAM 100W
ANTH 100W
ART 100W
The following majors require that students complete the Written Communication II (Area Z) course regardless of their score on the Writing Skills Test (i.e., no waiver allowed).

- Chemistry
- Engineering (all majors)
- English
- Geology
- History
- Meteorology
- Nursing
- Psychology
- Social Science
- World Languages and Literature (all majors)
## Major Exceptions and Modifications for GE and SJSU Studies

### Major Exceptions

Students with the following majors must consult with their major advisors regarding approved modifications of GE. Most exceptions are valid only if the student graduates with the listed degree major (noted by major). [General Education Attribute Legend](#).

<table>
<thead>
<tr>
<th>MAJOR/PROGRAM</th>
<th>GE AREA MODIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animation/Illustration</td>
<td>Physical Education Waived</td>
</tr>
<tr>
<td>Aviation</td>
<td>GE Area B2 (Intensive Science with completion of major); Area D1 (with completion of AMS Sequence); Physical Education Waived</td>
</tr>
<tr>
<td>Biology, BA</td>
<td>GE Area R (completion of major, BIOL 115+BIOL 160, w/C or better)</td>
</tr>
<tr>
<td>Biology, Ecology and Evolution</td>
<td>Area R (completion of major, BIOL 115+BIOL 160, w/C or better)</td>
</tr>
<tr>
<td>Biology, Marine</td>
<td>GE Area A3 met with completion of the major, Area R (completion of major, BIOL 115+BIOL 160, w/C or better)</td>
</tr>
<tr>
<td>Biology, Microbiology</td>
<td>GE Area R (completion of major, BIOL 115+MICR 127, w/C or better)</td>
</tr>
<tr>
<td>Biology, Molecular biology</td>
<td>GE Area R (completion of major, BIOL 115+BIOL 135B, w/C or better)</td>
</tr>
<tr>
<td>Biology, Preparation for Teaching</td>
<td>GE Area R (completion of major, BIOL 115+BIOL 160, w/C or better)</td>
</tr>
<tr>
<td>Biology, Systems Physiology</td>
<td>GE Area R (completion of major, BIOL 115+BIOL 178, w/C or better)</td>
</tr>
<tr>
<td>Chemistry, BS</td>
<td>GE Area B2 (Intensive Science with completion of the major)</td>
</tr>
<tr>
<td>Chemistry, Biochemistry</td>
<td>GE Area A3 met with completion of the major; Area R with CHEM 130A and CHEM 131B</td>
</tr>
<tr>
<td>Computer Science</td>
<td>GE Area D1 (with completion of AMS Sequence)</td>
</tr>
<tr>
<td>Aerospace Engineering</td>
<td>GE Area A3 met with completion of major; Area B2(Intensive Science with completion of the major); Area D1 (with completion of AMS Sequence); Physical Education Waived; S&amp;V met in the major (AE 171 A/B or 172 A/B plus ENGR 195 A/B)</td>
</tr>
<tr>
<td>Biomedical Engineering</td>
<td>GE Area A3 met with completion of major; Area B2 (Intensive Science with completion of the major); Area D1 (with completion of AMS Sequence); Physical Education Waived; S&amp;V met in the major (BME 198 A/B plus ENGR 195 A/B)</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>GE Area A3 met with completion of major; Area B2(Intensive Science with completion of the major); Area D1 (with completion of AMS Sequence); Physical Education Waived; S&amp;V met in the major (CHE 160B, CHE 161, CHE 165 plus ENGR 195 A/B)</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>GE Area A3 met with completion of major; Area B2 (Intensive Science with completion of the major); Area D1 (with completion of AMS Sequence); Physical Education Waived</td>
</tr>
<tr>
<td>Computer Engineering</td>
<td>GE Area A3 met with completion of major; Area D1 (with completion of AMS Sequence); S&amp;V met in the major (CMPE 195 A/B plus ENGR 195 A/B)</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>GE Area A3 met with completion of major; Area B2 (Intensive Science); Area D1 (with completion of AMS Sequence); Physical Education Waived; S&amp;V met in the major (EE 198 A/B plus ENGR 195 A/B)</td>
</tr>
<tr>
<td>General Engineering</td>
<td>GE Area A3 met with completion of major; Area B2(Intensive Science with completion of the major); Area D1 (with completion of AMS Sequence); Physical Education Waived</td>
</tr>
<tr>
<td>Industrial and Systems Engineering</td>
<td>GE Area A3 met with completion of major; Area B2 (Intensive Science with completion of the major); Area D1 (with completion of AMS Sequence); Physical Education Waived; S&amp;V met in the major</td>
</tr>
<tr>
<td>Materials Engineering</td>
<td>GE Area A3 met with completion of major; Area B2 (Intensive Science with completion of the major); Area D1 (with completion of AMS Sequence); Physical Education Waived; S&amp;V met in the major (ISE 195 A/B plus ENGR 195 A/B)</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>GE Area A3 met with completion of major; Area B2(Intensive Science with completion of the major); Area D1 (with completion of AMS Sequence); Physical Education Waived; S&amp;V met in the major (MATE 198 A/B plus ENGR 195 A/B)</td>
</tr>
<tr>
<td>Software Engineering</td>
<td>GE Area A3 met with completion of major; Area D1 (with completion of AMS Sequence); Physical Education Waived; S&amp;V met in the major (CMPE 195 A/B plus ENGR 195 A/B)</td>
</tr>
<tr>
<td>Industrial Design</td>
<td>Physical Education Waived</td>
</tr>
<tr>
<td>Industrial Technology (both Concentrations)</td>
<td>Area B2(Intensive Science with completion of the major); Area D1 (with completion of AMS Sequence); Physical Education Waived</td>
</tr>
<tr>
<td>Geology</td>
<td>GE Area A3 met with completion of major; Area B2 (Intensive Science with completion of the major)</td>
</tr>
<tr>
<td>Meteorology</td>
<td>Area B2(Intensive Science with completion of the major); Area D1 (with completion of AMS Sequence)</td>
</tr>
<tr>
<td>Music, Composition BM</td>
<td>Physical Education Waived</td>
</tr>
</tbody>
</table>
Music, Jazz Studies BM ................................ Physical Education Waived
Music, Performance BM .............................. Physical Education Waived
Nursing ................................................................. Physical Education Waived

SB1440 Programs with PE Waivers

The following SB1440 TMC Roadmaps include PE Waivers:

- Art - Concentration in Art History & Visual Culture (BA)
- Biological Sciences (BA)
- Biological Sciences, Concentration in Ecology and Evolution (BS)
- Biological Sciences, Concentration in Microbiology (BS)
- Biological Sciences, Concentration in Molecular Biology (BS)
- Biological Sciences, Concentration in Systems Physiology (BS)
- Business Administration, Concentration in Business Analytics (BS)
- Business Administration, Concentration in Entrepreneurship (BS)
- Business Administration, Concentration in Finance (BS)
- Business Administration, Concentration in General Business (BS)
- Business Administration, Concentration in Global Operations Management (BS)
- Business Administration, Concentration in Human Resource Management (BS)
- Business Administration, Concentration in Management (BS)
- Chemistry (BA) with a Minor
- Chemistry (BS)
- Child and Adolescent Development (BA)
- Computer Science (BS)
- Economics (BA) {with AS-T in Business Administration}
- English - Concentration in Professional and Technical Writing (BA)
- English - Concentration in Creative Writing (BA)
- Forensics Science - Concentration in Biology (BS)
- Forensics Science - Concentration in Chemistry (BS)
- Geography (BA)
- Humanities - Concentration in Religious Studies (BA)
- Math (BA)
- Math - Preparation for Teaching (BA)
- Physics (BS)
- Radio-TV-Film (BA)
- Social Science- Preparation for Teaching (Single Subject) (BA) {with AA-T in Elementary Education}
- Spanish (BA)
- Spanish - Preparation for Teaching (BA)