

Addendum to University Catalog Academic Year 2015-2016

**Academic Year
2015-2016**

Adjustments and/or Corrections to Degree Requirements

Addendum to Catalog

v01

September 2015

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

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	32
CHEM 001A. General Chemistry..... B1+B3	5
CHEM 001B. General Chemistry..... B1+B3	5
CHEM 008. Organic Chemistry.....	3
CHEM 009. Organic Chemistry Lab	1
BIOL 006. Biological Safety.....	1
BIOL 100W. Scientific Communication Workshop..... Z.....	3
BIOL 156. Ecological Sampling Design and Analyses.....	3
PHYS 002A. Fundamentals of Physics	B1+B3 4
PHYS 002B. Fundamentals of Physics.....	B1B3 4
Complete one course from:	
MATH 030. Calculus I.....	B4 3
BIOL 055. Introductory Biostatistics	B4 3
Requirements of the Major	50
Core Courses	46
BIOL 001A. Foundations of Biodiversity.....	B2+B3 5
BIOL 001B. Foundations of Cell Biology & Physiology	B2+B3 5
BIOL 106. Physiological Ecology	3
BIOL 106L. Physiological Ecology Lab.....	1
BIOL 113. Comparative Taxonomy	3
BIOL 114. Functional Morphology	3
BIOL 115. General Genetics	4
BIOL 118. Evolutionary Genetics	3
BIOL 160. Ecology	R 4
BIOL 163. Conservation Biology and Management.....	3
BOT 165. Plant Communities of California.....	4
ENT 101. Insect Diversity.....	4
Complete one course from:	
ZOOL 115. Invertebrate Zoology and Natural History.....	4
ZOOL 116. Vertebrate Evolution and Natural History.....	4
Elective Courses	4
Complete 4 units from:	
BIOL 155. Hypothesis Testing	3
BIOL 164. Conservation and Management Techniques.....	3
BIOL 172. Ecology of Inland and Estuarine Waters.....	4
BIOL 180. Individual Studies.....	1-4
BOT 104. Plant Taxonomy.....	4
ENT 106. Forensic Entomology.....	3



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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)
 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 Education24
 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
 HIST 015B. Essentials of U.S. & California Government M11..... 3
Can be taken as POLS 015 A/B as well.
 Mexican American Studies6
 MAS 010A. Mexican Americans and the Development of U.S. History and Government... M63
 MAS 010B. Mexican Americans and the Development of U.S. History and Government... M73
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 GVAR may be found at <http://info.sjsu.edu/gvar.html>.
A grade of C or better (C- not accepted) is required to meet graduation requirement.

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Requirements of the Major.....	51-52
Lower Division Core	12
CHAD 060. Child Development.....E.....	3
CHAD 070. Lifespan Development in the 21st Century.....E.....	3
PSYC 001. General Psychology.....D1.....	3
STAT 095. Elementary Statistics.....B4.....	3
<i>May substitute STAT 095 with SOCS/SOCI 015</i>	
Upper Division Core.....	24
CHAD 101. Research Methods in Child Development.....	3
CHAD 165. Risk and Resilience in a Community Context.....	3
CHAD 168. Social and Emotional Development in Childhood and Adolescence.....	3
CHAD 169. Motivating Children and Adolescents in Educational Settings.....	3
CHAD 170. Contextual Influences on Cognitive Development.....	3
CHAD 195. Senior Seminar in Child Development.....	3
Complete one course from:	
CHAD 100W. Writing Workshop.....Z.....	3
LLD 100W. Writing Workshop.....Z.....	3
Complete one course from:	
CHAD 162. Childhood and Adolescence in a Multicultural Society.....	3
CHAD 164. Contemporary Parenting.....	3
Area Specialization	15-16
Complete one plan from the following:	
Specializations are a cluster of courses used by departments for advising purposes. Specializations will not appear on transcripts or diplomas. Please see advisor for more details.	
Plan B1.....	12
CHAD 150. Development of Communicative Competence.....	3
CHAD 160. Child Development Practicum.....	3
CHAD 161. Child Care Administration II.....	3
CHAD 173. Crit. Issues in Infant/Toddler Develop.....	3
Interdisciplinary Elective	3
Complete one course from:	
EDSE 104. Atypical Development in Young Children.....	3
EDSE 108. Assessment and Evaluation: Atypical Young Children.....	3
HPRF 135. Health Issues in a Multicultural Society.....S.....	3
JS 136. Family and Community Violence.....S.....	3
PSYC 142. Child Psychopathology.....	3
NUFS 114B. Community Nutrition (non-majors).....	3
SOCI 178. Sociology of Childhood.....	3
Plan B2.....	15-16
CHAD 104. Program Evaluation and Assessment in Community-Based Programs.....	3
CHAD 157. Adult Supervision for Programs Serving Children, Youth, and Families.....	3
CHAD 158. Practicum in Community-Based Organizations Serving Children and Youth.....	3
Complete one course from:	
CHAD 163. Critical Issues in Adolescent Development.....	3
CHAD 173. Crit. Issues in Infant/Toddler Develop.....	3
Interdisciplinary Elective	3-4
COMM 144F. Organizational Communication.....	4

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HS 145. Community Mental Health.....	3
JS 152. Juvenile Delinquency & Justice.....	3
LING 129. Culture, Language and Ethnicity in the U.S.....	3
SOCI 151. Violence in the Family.....	3
SOCI 170. Sociology of Family.....	3
URBP 133. Introduction to Social Issues in Planning.....	4
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.

University Graduation Requirements.....	45
Core Lower Division General Education.....	27
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
HIST 015B. Essentials of U.S. & California Government.....M11.....	3
<i>Can be taken as POLS 015 A/B as well.</i>	
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

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Preparation for the Major 18
Preparation Courses 6
 PHYS 001. Elementary Physics.....B1.....3
 Complete one course from:
 ARTH 070A. Art History, Prehistoric to Medieval.....C1.....3
 ARTH 070B. Art History, Renaissance to Modern.....C1.....3
 ARTH 070C. Arts of Asia.....C1.....3
Highly Recommend Students take ARTH 070B
Additional Prep Courses 12
 DSID 021. Visualization I.....3
 DSID 022. Visualization II.....3
 DSID 031. Industrial Design Foundation I.....3
 DSID 032. Industrial Design Foundation II.....3

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 38
 KIN 105. Water Safety Instructor's Course.....2
 KIN 107. Adapted Aquatics.....1
 KIN 156. Introduction to Adapted Physical Activity.....3
 KIN 159. Sport and Adapted Activities.....3
 KIN 168. Psychology of Coaching.....3
 KIN 170B. Field Experience-Teaching.....1
Students will take KIN 170B multiple times for a total of 3 units
 KIN 170C. Fieldwork in Adapted Physical Activity.....1-3
Students will take KIN 170C multiple times for a total of 3 units
 KIN 172. Elementary School Programs, K-6.....3
 KIN 173. Intro to Teaching PE & Non-trad Sports.....3
 KIN 174. Assessment of Psychomotor Function.....3
 KIN 178. Management Practices for Physical Education Teachers.....3
 KIN 179. Design and Assessment of Movement Experiences.....3
 2 Additional Activity course (by advisement).....2
 Complete one course from:
 KIN 165. Motor Development.....3
 KIN 166. Motor Learning.....3

Whichever was not taken in Core

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**THE FOLLOWING ARE CORRECTIONS
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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

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**THE FOLLOWING ARE CORRECTIONS
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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

EXAM	UNITS	COURSE	GE CREDIT AND COMMENTS
ACS	3	CHEM 030A	Area B1 (3 units, no lab)
Art History	6	ARTH 070A & 070B	Areas C1 or C2 (3 units)
Biology	6	BIOL 010	Area B2 & B3 (4 units)
Calculus AB*	3	MATH 030	Area B4 (3 units); ELM exempt
Calculus BC*	6	MATH 030 & 031	Area B4 (3 units); ELM exempt
Calculus BC/AB Subscore*	3	MATH 030	Area B4 (3 units); ELM exempt
Chemistry	6	CHEM 030A	Area B1 & B3 (4 units)
Chinese Language & Culture	6	CHIN 001A	Area C2 (4 units)
Comparative Govt & Politics	3	POLS 002	Area D3 (3 units)
Computer Science A	3	CS 046A	No GE
English Language and Composition	6	ENGL 001A	Score 3 = Area A2 (3 units); EPT exempt
English Language and Composition	6	ENGL 001A & 001B	Score 4-5 = Areas A2 & C2 (6 units); EPT exempt
English Literature and Composition	6	ENGL 001A & 010	Score 3 = Area A2 & C2 (6 units); EPT exempt
English Literature and Composition	6	ENGL 001A & 001B	Score 4-5 = Areas A2 & C2 (6 units); EPT exempt
English Literature and Composition	6	ENGL 001A & 010	Score 4-5 = Areas A2 & C2 (6 units), at student's request ; EPT exempt
Environmental Science	4	Elective credit	Area B1 & B3 (4 units)
European History	6	HIST 010A & 010B	Areas C2 or D2 (3 units)
French Language & Culture	6	FREN 001A	Area C2 (5 units)
German Language & Culture	6	GERM 001A	Area C2 (3 units)
Human Geography	3	GEOG 010	Area D (3 units)
Italian Language & Culture	6	ITAL 001A	Area C2 (3 units)
Japanese Language & Culture	6	JPN 001A	Area C2 (5 units)
Latin	3	LATN 001A	Area C2 (3 units)
Macroeconomics	3	ECON 001A	Area D1 (3 units)
Microeconomics	3	ECON 001B	Area D1 (3 units)
Music Theory	6	Elective credit	No GE
Physics B**	6	PHYS 002A	Areas B1 & B3 (4 units) [ends Fall 2015]
Physics 1**	4	PHYS 002A	Areas B1 & B3 (4 units)
Physics 2	4	PHYS 002B	Areas B1 & B3 (4 units)
Physics C, Elec & Mag	4	PHYS 051	Areas B1 & B3 (4 units)
Physics C, Mechanics	4	PHYS 050	Areas B1 & B3 (4 units)
Psychology	3	PSYC 001	Area D (3 units)
AP Seminar	3	Elective Credit	No GE
Spanish Language and Culture	6	SPAN 001A	Area C2 (4 units)
Spanish Literature and Culture	6	SPAN 001B	Area C2 (4 units)
Statistics	3	SOCI 015	Area B4 (3 units); ELM exempt
Studio Art, 2D Design	3	ART 012	No GE
Studio Art, 3D Design	3	Elective credit	No GE

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Studio Art, Drawing.....3	ART 024.....	No GE
U.S. Govt & Politics3	Elective Credit.....	Area D3 & US 2 (3 units)
U.S. History.....6	HIST 020A & 020B.....	Areas C2 or D2; & US 1 (3 units)
World History.....6	Elective credit.....	Areas C2 or D2 (3 units)

*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.

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	UNITS	COURSE	GE CREDIT (COMMENTS)
Financial Accounting.....3		Elective credit.....	No GE
Information Systems & Computer Applications...3		Elective credit.....	No GE
Introductory Business Law.....3		BUS3 080.....	No GE
Principles of Management.....3		Elective credit.....	No GE
Principles of Marketing.....3		Elective credit.....	No GE

COMPOSITION AND LITERATURE EXAMS	UNITS	COURSE	GE CREDIT (COMMENTS)
American Literature6		Elective credit.....	Area C2 (3 units)
Analyzing & Interpreting Literature6		Elective credit.....	Area C2 (3 units)
College Composition*6		ENGL 001A.....	Area A2 (3 units)
College Composition Modular*6		ENGL 001A.....	Area A2 (3 units)
English Literature.....6		Elective credit.....	Area C2 (3 units)
Freshman College Composition.....0		No credit.....	No GE
Humanities6		Elective credit.....	Area C1 & C2 (3 units each)

*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	UNITS	COURSE	GE CREDIT (COMMENTS)
French Language (Level 1 = min score of 50).....6		Elective credit.....	No GE
French Language (Level 2* = min score of 59).....12		Elective credit.....	Area C2 (4 units)
German Language (Level 1 = min score of 50).....6		Elective credit.....	No GE
German Language (Level 2* = min score of 60).....12		Elective credit.....	Area C2 (3 units)
Spanish Language (Level 1 = min score of 50).....6		SPAN 001A.....	Area C2 (4 units)
Spanish Language (Level 2* = min score of 63).....12		SPAN 001A, 001B.....	Area C2 (8 units)

*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	UNITS	COURSE	GE CREDIT (COMMENTS)
American Government.....3		Elective credit.....	Areas US 2 & D3 (3 units)
History of the U.S. I: Early Colon. to 1877.....3		Elective credit.....	Areas US 1 & D2 (3 units)
History of the U.S. II: 1865 to Present3		Elective credit.....	Areas US 1 & D2 (3 units)
Human Growth & Development.....3		HS 015.....	Area E (3 units)
Macroeconomics, Principles of.....3		ECON 001A.....	Area D1 (3 units)
Microeconomics, Principles of.....3		Elective credit.....	Area D1 (3 units)
Psychology, Intro to Educational.....3		Elective credit.....	No GE
Psychology, Introductory.....3		PSYC 001.....	Area D (3 units)
Social Sciences & History6		Elective credit.....	Area D (3 units)
Sociology, Introductory3		SOCI 001.....	Area D (3 units)
Western Civilization I: Ancient Near East to 1648.....3		Elective credit.....	Area C2 or D2 (3 units)
Western Civilization II: 1648 to Present3		Elective credit.....	Area D2 (3 units)

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SCIENCE AND MATHEMATICS EXAMS	UNITS	COURSE	GE CREDIT (COMMENTS)
Biology.....	6	Elective credit.....	Area B2 (3 units, no lab)
Calculus.....	3	MATH 030.....	Area B4 (3 units; ELM exempt)
Chemistry.....	6	Elective credit.....	Areas B1 (6 units, no lab)
College Algebra.....	3	MATH 008 (F'10 forward)	Area B4 (3 units; ELM exempt)
College Mathematics.....	6	Elective credit.....	Area B4 (3 units; ELM exempt)
Natural Sciences.....	6	Elective credit.....	Areas B1 & B2 (3 units each, no lab)
Precalculus.....	3	MATH 019.....	Area B4 (3 units; ELM exempt)
Trigonometry.....	3	Elective Credit.....	Area B4 (3 units; ELM exempt)

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 1A, 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 020Public Speaking
- COMM 020NPublic Speaking for Nonnative Speakers
- COMM 040Argumentation & 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 1A 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 041Critical Decision Making
- COMM 045Media 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

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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.

PHYSICAL SCIENCE (B1)

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.

- ASTR 010Descriptive Astronomy
- CHEM 001A (L)*General Chemistry
- CHEM 001B (L)*General Chemistry
- CHEM 030A (L)Introductory Chemistry
- ENGR 005Science of High Technology
- GEOG 001Geography of Natural Environments
- GEOL 001 (L)General Geology
- GEOL 003Planet Earth
- GEOL 006Geology of California
- GEOL 007 (L)Earth, Time & Life
- GEOL 009 (L)Earth Disasters
- METR 010Weather & Climate
- METR 012Global Warming
- NUFS 001APhysical Science of Foods
- PHYS 001Elementary Physics
- PHYS 002A(L)*Fundamentals of Physics
- PHYS 002B(L)*Fundamentals of Physics
- PHYS 0050(L)*General Physics
- PHYS 0051(L)*General Physics
- PHYS 0052(L)*General Physics

LIFE SCIENCE (B2)

- ANTH 012Introduction to Human Evolution
- BIOL 001A (L)*Foundations of Biodiversity
- BIOL 001B (L)*Foundations of Cell Biology & Physiology
- BIOL 010The Living World
- BIOL 020 (L)Ecological Biology
- BIOL 021 (L)Human Biology
- BIOL 065 (L)*Human Anatomy
- BIOL 065O*Human Anatomy
- BIOL 066*Human Physiology
- ENVS 010Life on a Changing Planet
- GEOL 008Age of Dinosaurs
- MICR 020 (L)*General Bacteriology
- NUFS 016Science, Physiology, & Nutrition
- UNVS 096GBGlobal Citizenship: A Life Science Perspective

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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 (L)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 067Introductory Health Statistics
- BIOL 055Introduction 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 015CStatway C: Statistics-Concepts & Methods
- UNVS 016CStatway 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.

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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

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- JWSS 018Q.....Superheroes & Geeks
- MUSC 012.....Medieval and Renaissance Music
- PHIL 010.....Introduction to Philosophy
- PHIL 061.....Moral Issues
- PHIL 070A.....Ancient Philosophy
- PHIL 070B.....Modern Philosophy
- POLS 003.....Introduction to Political Thought
- RELS/HUM/MDES 070A.....Western Religions
- RELS/ASIA/HUM 070B.....Eastern Religions
- RELS/HUM/JWSS/MDES 090.....Bible Hist and Lit
- SPAN 001A.....Elementary Spanish
- SPAN 001B.....Elementary Spanish
- SPAN 025A.....Intermediate Spanish
- SPAN 025B.....Intermediate Spanish
- TA 013.....Great Comedies for Theatre
- UNVS 096GC.....Global Citizenship: A Humanities Perspective

^ = Course meets extra Area "C"

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
- ECON 001BQ.....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

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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-BAsian Americans in the United States Historical & Political Process
- AAS/AFAM/MAS 025The Changing Majority: Power & Ethnicity in America
- AFAM 002 A-B.....African-Americans and the Development of America’s History and Government
- AMS 001A-BAmerican Civilization
- GEOG 012Global Geography
- HIST 010AWestern Civilization
- HIST 010B.....Western Civilization
- HIST/POLS 015A.....U.S. History & Government
- HUM 001A-BBackground of Western Culture & Society
- HUM 002A-BModern Culture and Social Institutions
- MAS 10A-10BMexican Americans & the Development of U.S. History and Government
- POLS 002Introduction to Comparative Politics
- WOMS/AAS 020Women 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-BAsian Americans in the United States Historical & Political Process
- AMS 001A-BAmerican Civilization
- ENVS 001.....Introduction to Environmental Issues
- AFAM 002 A-B.....African-Americans and the Development of America’s History and Government
- HIST/POLS 015BU.S. History & Government
- HUM 001A-BBackground of Western Culture & Society
- HUM 002A-BModern Culture and Social Institutions
- JS 025.....Introduction to Human Rights and Justice
- MAS 010A-BMexican Americans & the Development of U.S. History and Government
- MCOM 072Mass Communication & Society
- POLS 004Introduction 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 054Human Understanding
- BUS 012Money Matters
- CA 060.....Creativity Matters
- CHAD 060Child Development
- CHAD 070Lifespan Development in the 21st Century
- COMM 074Fundamentals of Intercultural Communication
- COMM 074QFundamentals of Intercultural Communication
- EDCO 004Personal, Academic & Career Exploration
- ENGR 010*Introduction to Engineering

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- GEOL 005.....Human Development & the Natural World
- RECL 010.....Creating a Meaningful Life
- HS 001.....Understanding Your Health
- KIN 069.....Stress Management: A Multidisciplinary Perspective
- LING 022.....Language Across the Lifespan
- NUFS 009.....Introduction to Human Nutrition
- PHIL 012.....Philosophy of the Person
- PSYC 002Q.....Identity Development & Prejudice
- RELS/HUM/GERO 099.... Death, Dying & Religions
- SCI 002Q.....Success in Science
- SOCI/UNVS 057.....Community Involvement & Personal Growth
- TA 048.....Voice & Movement for the Actor
- UNVS 096GE.....Global Citizenship: A Human Development Perspective

*For specific department/program majors only

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 of these sequences satisfy Core GE requirements listed in parentheses. All courses in the sequence must be completed to satisfy the requirement.

- AAS 033A-B.....Asian Americans in the US Historical & Political Process (D2/3)
- AFAM 002A-B.....African-Americans & the Development of America’s History and Government (D2/3)
- AMS 001A-B.....American Civilization (C1/2, D2/3)
- HUM 001A-B.....Background of Western Culture & Society (A2, C1/2, D2)
- HUM 002A-B.....Modern Culture & Social Institutions (A1/3, C/3, D/3)
- MAS 010A-B.....Mexican Americans & the Development of US History and Government (D2/3)

AMERICAN HISTORY ONLY (US 1)

- HIST/POLS 015A.....US History & Government (D2)
 - HIST 020A-B.....History of the American People
- Both courses must be completed to satisfy the requirement
- HIST 170.....Topics American History
 - HIST 170S.....Topics Am History: Am Identities (S)

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

- POLS 001.....American Government
- POLS/HIST 015B.....US History & Government (D3)
- POLS 170V.....Am Politics-Global Perspective (V)

CALIFORNIA GOVERNMENT ONLY (US 3)

- HIST 189A.....California to 1900
- HIST 189B.....California from 1900
- POLS 102.....State Government & Politics

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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 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
COMM/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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METR/ENVS 113.....Atmospheric Pollution
 NUFS 115Issues in Food Toxicology
 NUFS 139Hunger & Environmental Nutrition
 NUFS/KIN 163.....Physical Fitness & Nutrition
 PHIL 160.....Philosophy of Science
 PHYSPhysics of Animation
 PHYS/MUSC 166Physics of Music
 UNVS 109.....Climate Solutions Initiative

*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.

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

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*Spacecraft Design I
 AE 171A*Aircraft Design I
 AAS 175Asian American Communities
 AAS 185Multicultural 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 172The 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 174Intercultural Comm & Struct Inequality
 CMPE/SE 195A.....Senior Design Project I
 EDUC/APSC/COMM/ENGR/HA/SCI 157Community 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 169Ethnicity in American Literature
 ENGR 195A*Global and Social Issues in Engineering
 ENVS 150.....Introduction to Environmental Thought
 GEOG/SOCS/ANTH/HIST 138United States in Historical & Social Science Perspectives
 GERO/HS/SCWK 107Aging & Society
 HIST 170S.....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/NUFS/NURS/OCTH 135Health Issues in a Multicultural Society
 ISE 195A*Senior Industrial Engineering Design I
 S 132.....Race, Gender, Inequality & the Law
 JS 136.....Family & Community Violence
 KIN 101.....Sport in America
 KIN/HS 169Diversity, 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

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ME 195A*	Senior Design Project I
MUSC 120	Worlds of Jazz
NURS 138	Professional Role Development VI
PHIL/BUS3 186	Professional & Business Ethics
POLS 120	Law & Society
PSYC 191	The Psych of Prejudice
RECL 111	Leisure, Culture, & Identity
RELS 162	Religion & Political Controversy in the US
RELS/HUM 191	Religion in America
RTVF 110	Electronic Media & Culture
SOCI 162	Race & Ethnic Relations
URBP 101	The City
WOMS 101	The 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.

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
ANTH/ASIA 115	The Emerging Global Culture
ANTH 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-Asia3/25/1
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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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; or
- completing the Graduation Writing Assessment Requirement (GWAR) during enrollment at another CSU or equivalent course work at another university prior to SJSU enrollment; or
- 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.
- **Effective Fall 2011:** Second baccalaureate students who earned their first bachelor degree from a regionally accredited institution in the U.S. are not required to take this course unless required by their major department.

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

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ARTH 100W
BIOL 100W
CA 100W
CHAD 100W
CHEM 100W
COMM 100W
CS 100W
DSGN 100W
ECON 100W
ENGL 100W
ENGL 100WB
ENGR 100W
ENVS 100W
FORL 100W
GEOG/GLST 100W
GEOL 100W
HIST 100W
HUM/AMS/RELS 100W
HPRF/HS/NURS/NUFS/OCTH 100W
HSPM 100W
JS 100W
KIN 100W
LLD 100W
LLD 100WB
MATH 100W
MCOM 100W
METR 100W
MUSC 100W
POLS 100W
PSYC 100W
RECL 100W
SCWK 100W
SOCI 100W
SOCS 100W
TA 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](#).

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

Academic Year 2015-2016

Addendum to Catalog

v01

September 2015

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

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)