

### General Education (GE) - Program Objectives

A university brings together many separate areas of learning, yet it is more than just a collection of specialized disciplines. The SJSU General Education Program incorporates the development of skills, the acquisition of knowledge, and the integration of knowledge through the study of facts, issues, and ideas. Regardless of major, all who earn undergraduate degrees should share common educational experiences, as they become university scholars. In combination with major, minor, and elective courses, the General Education curriculum should help students attain those attributes found in an educated person.

Students who complete the General Education curriculum should be able to demonstrate:

- Knowledge of Human Cultures and the Physical and Natural World

(focused by engagement with big questions, both contemporary and enduring through study in the sciences and mathematics, social sciences, humanities, histories, languages, and the arts)

- Intellectual and Practical Skills

(practiced extensively, across the curriculum, in the context of progressively more challenging problems, projects, and standards for performance)

- Personal and Social Responsibility

(anchored through active involvement with diverse communities and real-world challenges)

- Integrative Learning

(demonstrated through the application of knowledge, skills, and responsibilities to new settings and complex problems)

The advancement of academic discourse requires civility and a respectful attitude toward all in the expression and consideration of a variety of viewpoints. All courses shall reinforce the ethical responsibility of students and instructors to acknowledge respectfully the learning styles and forms of expression of individuals and members of all groups.

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### General Education (GE) - Policies

1. All students must complete 48 units of approved GE courses with letter grades. If a requirement is waived without unit credit, additional approved GE courses must be taken to complete a minimum of 48 GE units.
2. All three areas described below must be completed by all students: Core GE (39 units), SJSU Studies (9 upper division GE units and 100W) and American Institutions (0-6 units).
3. Transfer students may fulfill all lower division core GE by completing the Intersegmental GE Transfer Curriculum (IGETC) or a CSU GE 39-unit breadth certification prior to transfer. Having completed the IGETC or CSU GE Breadth certification, the transfer student cannot be held to additional lower division core GE requirements.
4. All students must satisfy SJSU Studies at SJSU regardless of GE completed at other institutions. Exceptions:
  - Written Communication II (100W) may be satisfied prior to transfer, unless also specified as a course requirement in the major.
  - A complete 48 unit GE Certification from another CSU is submitted, showing lower and upper division completed.
  - Second baccalaureate students who earned their first bachelor degree from a regionally accredited institution in the U.S. (*effective Fall 2011*)
  - Student's complete an approved upper division GE course at another CSU, in person or online
5. If a course is listed as a sequence (A-B), the entire sequence must be completed to satisfy the requirement.
6. Oral Communication (A1), Written Communication I (A2), Critical Thinking and Writing (A3), and Mathematical Concepts (B4) courses each require a minimum grade of "C- or better".

**October 27, 2017**

**ALL DATES, FEES & INFORMATION  
SUBJECT TO  
CHANGE WITHOUT NOTICE**

7. Completion of Written Communication I (Area A2) with a “C- or better” is prerequisite to the WST. Satisfying the WST requirement is prerequisite to any SJSU Studies course.

8. To find approved courses, check the GE designator listed for the requirement. This designator is printed by each GE class section in the **SJSU Schedule of Classes**.

9. All GE courses must be on the approved list of the California Community College (CCC), California State University (CSU) or University of California (UC) for CSU Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC) where and when the course is taken.

10. The following GE courses require prerequisites to enroll:

- Oral Communication (Area A1) & Written Communication I (Area A2), both passed with grades of “C- or better”, are prerequisites to Critical Thinking and Writing (Area A3)
- Satisfaction of the Writing Skills Test (WST) requirement and upper division standing are prerequisites to SJSU Studies (Areas R, S, V, Z)
- Completion of Area A3 (or a 2nd semester composition course) with a “C- or better” is a prerequisite to Area Z (100W).

See the Testing section for additional information about these exams.

11. Subsequent to completion of all CSU general education requirements (at the lower and upper divisions), a student may not be required to satisfy additional general education requirements outside of the major program requirements.

12. Complete information on specific requirements and approved courses is found each semester in the SJSU Policies document.

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### General Education (GE) - Previous Requirements

Students approved for earlier GE patterns have four options:

1. Follow the pattern described here;
  2. Continue to follow their previous pattern using courses that now appear in categories that are the same as the previous pattern;
- or-
3. Use courses previously taken when approved for the required categories;
- or-
4. Use courses in new categories to substitute for previous requirements.

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### General Education (GE) - Academic Advisement

Academic Advising and Retention Services provides general education academic advising to ensure your academic success and help you achieve your educational goals. To make the most of your advising sessions, please observe the following:

- You must be a currently matriculated student at the time you make an appointment.
- Bring a complete set of all college transcripts--unofficial copies are acceptable.
- Bring a copy of your General Education certification if you attended a California Community College. A partial certification is acceptable.
- Review MyProgress report prior to your appointment
- Learn the requirements for your major--see the *SJSU Catalog* for details.
- See your major advisor.

Note: Admitted students should wait until after attending an orientation program before requesting an appointment. Students who have not yet been admitted to SJSU should make an appointment for advising with Student Outreach and Recruitment at 408-924-2564.

#### Academic Advising and Retention Services

Student Services Center  
[www.sjsu.edu/aars](http://www.sjsu.edu/aars)  
408-924-2129

**SJSU Catalog & Class Schedule Policies & Procedures**

**SPRING 2018**

**October 27, 2017**  
**ALL DATES, FEES & INFORMATION**  
**SUBJECT TO**  
**CHANGE WITHOUT NOTICE**

**Core General Education**

**BASIC SKILLS OF AN EDUCATED PERSON**

These courses build key skills for learning - communication and critical thinking. An educated person communicates ideas effectively both verbally and in writing. Being able to organize and express ideas is a key part of learning. An educated person must also have strong reasoning powers in order to analyze critically all types of information. The skills courses within General Education provide an opportunity for students to gain and enhance critical communication and analytical skills.

Oral Communication (A1).....	3
Written Communication I (A2).....	3
Critical Thinking and Writing (A3).....	3
Mathematical Concepts (B4).....	3
Subtotal.....	12 units

**BASIC KNOWLEDGE OF AN EDUCATED PERSON**

In these courses, students gain the fundamental knowledge of an educated person. Students have opportunities to demonstrate an appreciation of the fundamentals of science, arts and letters, and the forces that shape the individual and modern society throughout the lifespan. This fundamental knowledge is crucial to understanding more advanced topics, including a major field of study.

Physical Science (B1)*.....	3
Life Science (B2)*.....	3
One lab course in either physical or life science is required (B3)*	
Arts (C1).....	3
Letters (C2).....	3
A third course from either Arts or Letters (C1 or C2).....	3
Human Behavior (D1).....	3
Comparative Systems, Cultures & Environments (D2).....	3
Social Issues (D3).....	3
Human Understanding & Development (E).....	3
Subtotal.....	27 units

**SJSU Studies (formerly Advanced GE)**

**INTEGRATED KNOWLEDGE OF AN EDUCATED PERSON**

In these courses, students become integrated thinkers who see connections between and among a variety of concepts and ideas. An educated person applies concepts and foundations learned in one area to other areas as part of a lifelong learning process. These courses help students to live and work intelligently, responsibly, and cooperatively in a multicultural society and to develop abilities to address complex issues and problems using disciplined analytical skills and creative techniques.

Earth and Environment (R).....	3
Self, Society & Equality in the U.S. (S).....	3
Culture, Civilization & Global Understanding (V).....	3
Written Communication II (Z).....	0-3
Subtotal.....	9-12 units

**Graduation Requirements**

American Institutions (may be satisfied in Core).....	0-6
Physical Education (two units or two courses of PE activity are required to meet the PE Requirement).....	0-2

**TOTAL GENERAL EDUCATION UNITS**

CORE.....	39 Units
SJSU Studies.....	9-12 Units

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

Students must complete 39 units of Core GE courses.

**English Language Communication and Critical Thinking**

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
- HUM 001A-1B ^ .....World Cultures & Societies- Honors
- HUM 002A-2B ^ .....Modern World Cultures - Honors
- 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.....First Year Writing
- ENGL 01AS.....First Year Composition, Stretch II
- HUM 001A-1B ^ .....World Cultures & Societies- Honors
- HUM 002A-2B ^ .....Modern World Cultures - Honors

**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 .....Critical Thinking and Writing
- ENGL 007 .....Critical Thinking
- HIST 050.....Historical Process: Understanding Historical Reasoning
- HUM 001A-1B ^ .....World Cultures & Societies- Honors
- HUM 002A-2B ^ .....Modern World Cultures - Honors
- LING 021.....Language & Thinking
- LING 024.....Language Variation in Space, Time, & Culture
- PHIL 057.....Logic & Critical Reasoning
- POLS 020.....Controversial Legal Issues

^ = Eight GE areas, including third Area C, and all of American Institutions completed when the Humanities Honors sequence (HUM 1A/1B/2A/2B) is completed with grades of "C- or better."

**Scientific Inquiry and Quantitative Reasoning**

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.

**SJSU Catalog &  
Class Schedule  
Policies &  
Procedures**

**SPRING 2018**

**October 27, 2017**

**ALL DATES, FEES & INFORMATION  
SUBJECT TO  
CHANGE WITHOUT NOTICE**

**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 010 .....Descriptive Astronomy
- CHEM 001A (L)\*.....General Chemistry
- CHEM 001B (L)\*.....General Chemistry
- CHEM 030A (L) .....Introductory Chemistry
- ENGR 005 .....Science of High Technology
- GEOG 001 .....Geography of Natural Environments
- GEOLOGY 001 (L).....General Geology
- GEOLOGY 003 .....Planet Earth
- GEOLOGY 006 .....Geology of California
- GEOLOGY 007 (L).....Earth, Time & Life
- GEOLOGY 009 (L).....Earth Disasters
- METR 010 .....Weather & Climate
- METR 012 .....Global Warming
- NUFS 001A .....Physical Science of Foods
- PHYS 001 .....Elementary Physics
- PHYS 002A (L)\* .....Fundamentals of Physics
- PHYS 002B (L)\* .....Fundamentals of Physics
- PHYS 023 .....Animation Physics
- PHYS 0050 (L)\* .....General Physics/Mechanics
- PHYS 0051 (L)\* .....General Physics/Electricity and Magnetism
- PHYS 0052 (L)\* .....General Physics/Waves, Light, Heat

**LIFE SCIENCE (B2)**

- ANTH 012.....Introduction to Human Evolution
- BIOL 0030 (L)\* .....Principles of Biology I
- BIOL 0031 (L)\* .....Principles of Biology II
- BIOL 010.....The Living World
- BIOL 020 (L) .....Ecological Biology
- BIOL 021 (L) .....Human Biology
- BIOL 065 (L)\* .....Human Anatomy
- BIOL 065O (L)\* .....Human Anatomy
- BIOL 066 (L)\* .....Human Physiology
- ENVS 010 .....Life on a Changing Planet
- GEOLOGY 008 .....Age of Dinosaurs
- GLST 001B.....Introduction to Global Studies
- MICR 020 (L)\* .....General Bacteriology
- NUFS 016.....Science, Physiology, & Nutrition

**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 (1 unit)
  - BIOL 150/GEOLOGY 150 (L).....Fld Stds Nat Hist (1-2 units)
  - GEOLOGY 004L (L) .....Planet Earth Lab
  - PHYS 001L (L).....Elem Phys Lab (1 unit)

**SJSU Catalog & Class Schedule Policies & Procedures**

**SPRING 2018**

**October 27, 2017**  
**ALL DATES, FEES & INFORMATION**  
**SUBJECT TO**  
**CHANGE WITHOUT NOTICE**

**\*Intensive Science**

Students who have completed the Intensive Science courses with a “C- or better”, will be allowed to use these courses to fulfill the requirement in B1/B3 or B2/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. Additionally, the following packages of courses, all completed with “C- or better”, will satisfy Areas B1, B2, and B3: Two courses from PHYS 50, PHYS 51, or PHYS 52, and CHEM 1A; or PHYS 2A and PHYS 2B and CHEM 1A; or CHEM 1A and CHEM 1B, plus a physics course. See details on the petition at: <http://www.sjsu.edu/gup/allForms/index.html#studentPetitions>.

**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:

- BIOL 055.....Introduction to Biostatistics
- HS 067 .....Introductory Health Statistics
- JS 015.....Introductory Statistics in Justice Studies
- 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/MATH 015C....Statway C: Statistics-Concepts & Methods
- UNVS/MATH 016C....Statway C: Statistics-Concepts & Methods

**\*Intensive Math**

Students who have not completed a course satisfying Area B4, but 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” will be allowed to use one of these courses to fulfill the Area B4 requirement.

**Arts & Letters (Area C)**

9 units

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

**In Area C, complete no fewer than 9 semester units, with at least one course in the Arts (C1) and one in the Letters (C2).**

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.

**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

**SJSU Catalog &  
Class Schedule  
Policies &  
Procedures**

**SPRING 2018**

**October 27, 2017**

**ALL DATES, FEES & INFORMATION  
SUBJECT TO  
CHANGE WITHOUT NOTICE**

ARTH 072.....Design in Society  
DANC 010.....Dance Appreciation  
FORL 025.....World Cultures through Literature and Cinema  
HUM 001A-1B^ .....World Cultures & Societies- Honors  
HUM 002A-2B^ .....Modern World Cultures - Honors  
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)**

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AMS 001A-B.....American Civilization  
CHIN 001A.....Elementary Chinese  
CHIN 001B.....Elementary Chinese  
CHIN 025A.....Intermediate Chinese  
CHIN 025B.....Intermediate Chinese  
ENGL 001B.....Argument and Analysis  
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 001A.....Elementary German  
GERM 001B.....Elementary German  
GERM 025A.....Intermediate German  
GERM 025B.....Intermediate German  
HUM 001A-1B ^ .....World Cultures & Societies- Honors  
HUM 002A-2B ^ .....Modern World Cultures - Honors  
HUM 0010.....Chronicles of Education  
JPN 001A.....Elementary Japanese  
JPN 001B.....Elementary Japanese  
JPN 025A.....Intermediate Japanese  
JPN 025B.....Intermediate Japanese  
JWSS 018Q.....Superheroes & Geeks  
MUSC 0012\*.....Medieval and Renaissance Music  
PHIL 010.....Introduction to Philosophy

**SJSU Catalog & Class Schedule Policies & Procedures**

**SPRING 2018**

**October 27, 2017**  
**ALL DATES, FEES & INFORMATION**  
**SUBJECT TO**  
**CHANGE WITHOUT NOTICE**

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

^ = Eight GE areas, including third Area C, and all of American Institutions completed when the Humanities Honors sequence (HUM 1A/1B/2A/2B) is completed with grades of "C- or better."

**\*Intensive Music**

Students who have completed the Intensive Music courses, MUSC 4A, MUSC 4B and MUSC 12, with a "C or better", will be allowed to use these courses to fulfill the requirements of Area C. Students may petition to have (1) grades below C (very rarely approved), or (2) other Intensive Music courses not on the list approved as intensive music courses. See details on the petition at: <http://www.sjsu.edu/gup/allForms/index.html#studentPetitions>.

**Social Sciences**

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 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
LING 024.....	Language Variation in Space, Time, & Culture
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
SOCI 001.....	Introduction to Sociology
WOMS 005Q.....	Gender, Race & Sexuality in Media
WOMS 010.....	Perspectives on Sex & Gender Roles



**SJSU Catalog &  
Class Schedule  
Policies &  
Procedures**

**SPRING 2018**

**October 27, 2017**

**ALL DATES, FEES & INFORMATION  
SUBJECT TO  
CHANGE WITHOUT NOTICE**

**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-33B.....Asian Americans in the United States Historical & Political Process
- AAS/AFAM/MAS 025The Changing Majority: Power & Ethnicity in America
- AFAM 002A-2B.....African-Americans and the Development of America’s History and Government
- AMS 001A-1B.....American Civilization
- GEOG 012.....Global Geography
- HIST 010A.....Western Civilization
- HIST 010B.....Western Civilization
- HIST 015A.....Essentials of U.S. History
- HUM 001A-1B.....World Cultures & Societies- Honors
- HUM 002A-2B.....Modern World Cultures - Honors
- 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-33B.....Asian Americans in the United States Historical & Political Process
- AMS 001A-1B.....American Civilization
- ENVS 001.....Introduction to Environmental Issues
- AFAM 002 A-B.....African-Americans and the Development of America’s History and Government
- HUM 001A-B.....World Cultures & Societies- Honors
- HUM 002A-B.....Modern World Cultures - Honors
- JS 025.....Introduction to Human Rights and Justice
- MAS 010A-10B.....Mexican Americans & the Development of U.S. History and Government
- MCOM 072.....Mass Communication & Society
- POLS 004.....Introduction to International Relations
- POLS 015B.....Essentials of U.S. & California Government
- SOCI 080.....Social Problems

^ = Eight GE areas, including third Area C, and all of American Institutions completed when the Humanities Honors sequence (HUM 1A/1B/2A/2B) is completed with grades of “C- or better.”

**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
- BUS3 012.....Money Matters
- CA 060.....Creativity Matters
- CHAD 060.....Child Development
- CHAD 070.....Lifespan Development in the 21st Century

**SJSU Catalog & Class Schedule Policies & Procedures**

**SPRING 2018**

**October 27, 2017  
ALL DATES, FEES & INFORMATION  
SUBJECT TO  
CHANGE WITHOUT NOTICE**

COMM 074.....	Fundamentals of Intercultural Communication
COMM 074Q.....	Fundamentals of Intercultural Communication
EDCO 004.....	Personal, Academic & Career Exploration
ENGR 010*.....	Introduction to Engineering
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 002.....	Success in Science
SOCI/UNVS 057.....	Community Involvement & Personal Growth
TA 048.....	Voice & Movement for the Actor

\*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-33B.....	Asian Americans in the US Historical & Political Process (D2/3)
AFAM 002A-2B.....	African-Americans & the Development of America’s History and Government (D2/3)
AMS 001A-1B.....	American Civilization (C1/2, D2/3)
HIST 015A & POLS 15B.....	Essentials of U.S. History (D2)/Essentials of US & California Government (D3)
HUM 001A-1B^.....	World Cultures & Societies - Honors (A2, C1/2, D2)
HUM 002A-2B^.....	Modern World Cultures - Honors (A1/3, C/3, D/3)
MAS 010A-10B.....	Mexican Americans & the Development of US History and Government (D2/3)

**AMERICAN HISTORY ONLY (US 1)**

HIST 015A.....	Essentials of U.S. History (D2)
HIST 020A.....	History of the American People
HIST 020B.....	History of the American People
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 015B.....	Essentials of US & California Government (D3)
POLS 170V.....	Am Politics-Global Perspective (V)

**SJSU Catalog & Class Schedule Policies & Procedures**

**SPRING 2018**

**October 27, 2017**  
**ALL DATES, FEES & INFORMATION**  
**SUBJECT TO**  
**CHANGE WITHOUT NOTICE**

**CALIFORNIA GOVERNMENT ONLY (US 3)**

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

^ = Eight GE areas, including third Area C, and all of American Institutions completed when the Humanities Honors sequence (HUM 1A/1B/2A/2B) is completed with grades of "C or better."

**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 times may satisfy this requirement by passing ENGL 100A or LLD 100A with a grade of "C or better."
- Students can satisfy Areas R, S, & V by taking COMM/ENVS/GEOL/HUM/METR 168A/168B: Global Climate Change or HUM 177A/177B: Advanced Honors in Integrated Science, Social Science and Humanities. These are year-long courses sequences: students enroll in 6 units in the Fall and 3 units in the Spring. By successfully completing one of these course sequences with a "C or Better" in each semester, students satisfy all nine units of upper division GE (Areas R, S, & V) within SJSU Studies.
- 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 upper division GE 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.....Globalization and the Environment
- GEOL 103.....Earth Systems & the Environment
- GEOL 105.....General Oceanography

**SJSU Catalog & Class Schedule Policies & Procedures**

**SPRING 2018**

**October 27, 2017**  
**ALL DATES, FEES & INFORMATION**  
**SUBJECT TO**  
**CHANGE WITHOUT NOTICE**

GEOL 107 .....	Prehistoric Life
GEOL/ENVS 111 .....	Geology & the Environment
GEOL 112 .....	Hazards, Risks of Earthquakes & Volcanoes
GEOL 124 .....	Sedimentology and Stratigraphy
GEOL 171 .....	The End of the World (as you knew it)
GLST 167 .....	Changing Ecologies of Globalization
HS 172 .....	Contemporary Environmental Health Issues
HUM 177A/177B** .....	Advanced Honors in Integrated Science, Social Science and Humanities
LING 123 .....	Sound & Communication
MICR 127 .....	Microbial Physiology
METR 112 .....	Global Climate Changes
METR/ENVS 113 .....	Atmospheric Pollution
METR 115 .....	Wildfire in the Earth System
NUFS 115 .....	Issues in Food Toxicology
NUFS 139 .....	Hunger & Environmental Nutrition
NUFS/KIN 163 .....	Physical Fitness & Nutrition
PHIL 160 .....	Philosophy of Science
PHYS 123 .....	Physics of Animation
PHYS/MUSC 166 .....	Physics of Music
UNVS 109 .....	Climate Solutions Initiative

\*For specific department/program majors only

\*\* Successful completion of this year-long course sequence (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 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
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 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
ENGR 195C* .....	Interdisciplinary Senior Project I
ENVS 150 .....	Introduction to Environmental Thought
GEOG/SOCS/ANTH/HIST 138 .....	United States in Historical & Social Science Perspectives
GERO/HS/SCWK 107 .....	Aging & Society
HIST 170S .....	Topics Am History: Am Identities (US 1)
HIST 188 .....	History of Women in the United States

**SJSU Catalog & Class Schedule Policies & Procedures**

**SPRING 2018**

**October 27, 2017  
ALL DATES, FEES & INFORMATION  
SUBJECT TO  
CHANGE WITHOUT NOTICE**

HUM 177A/177B**	Advanced Honors in Integrated Science, Social Science and Humanities
HPRF/HS/NUFS/NURS/OCTH 135	Health Issues in a Multicultural Society
JS 132	Race, Gender, Inequality & the Law
JS 136	Family & Community Violence
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
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
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

**SJSU Catalog &  
Class Schedule  
Policies &  
Procedures**

**SPRING 2018**

**October 27, 2017**

**ALL DATES, FEES & INFORMATION  
SUBJECT TO  
CHANGE WITHOUT NOTICE**

ENGL 123D.....	Literature for Global Understanding-Asia3/25/1
ENGL/JWSS/HUM/FORL 126.....	Holocaust Literature
ENGR 195B*.....	Global and Social Issues in Engineering
ENGR 195D*.....	Interdisciplinary Senior Project II
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
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**.....	Advanced Honors in Integrated Science, Social Science and Humanities
JS 171.....	Human Rights & Justice
KIN 111.....	Sport & Movement in a Global Context
KIN 111ITL.....	Sport & Movement in a Global Context: International Experience
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 (GWAR) by

- Earning a "C or better" in a 100W course, all of which enforce the prerequisite of a passing score on the writing Skills Test (WST) or a grade of "C or better" for ENGL 100A or LLD 100A.
- For most degree programs, students should take the 100W course that is required as part of the degree program (listed below); or
- Completing the Graduation Writing Assessment Requirement (GWAR) while matriculated at another CSU, or equivalent course work at another university prior to SJSU enrollment; or

# SJSU Catalog & Class Schedule Policies & Procedures

**SPRING 2018**

**October 27, 2017**

**ALL DATES, FEES & INFORMATION  
SUBJECT TO  
CHANGE WITHOUT NOTICE**

- A waiver score on the WST satisfies Area Z without the need to complete a 100W course only in majors that permit a waiver score. The following majors do not permit a waiver (regardless of score): Chemistry, Engineering (all majors), English, Geology, History, Meteorology, Nursing, Psychology, Social Science, World Languages & Literature (all majors).
- **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.

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## WRITTEN COMMUNICATION II (Z)

AFAM 100W  
ANTH 100W  
ART 100W  
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  
PHYS 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 {<http://info.sjsu.edu/static/catalog/ge-course-attributes.html>}.

**October 27, 2017**  
**ALL DATES, FEES & INFORMATION**  
**SUBJECT TO**  
**CHANGE WITHOUT NOTICE**

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,BIOL 178, BIOL 135B, or MICR 127) 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, MICR 166+MICR 127, w/C or better)
Biology, Molecular biology.....	GE Area R (completion of major, BIOL 115+BIOL 135B, w/C or better)
Biology, Systems Physiology.....	GE Area R (completion of major, BIOL 115+BIOL 178, w/C or better)
Chemistry, BA.....	GE Area B2 (Intensive Science with completion of the major)
Chemistry, BS.....	GE Area B2 (Intensive Science with completion of the major); GE Area D1 (with completion of AMS Sequence)
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)
Dance, BA.....	Physical Education with completion of the major
Dance, BFA.....	Physical Education with completion of the major
Earth Science, BA.....	GE Area B2 (Intensive Science with completion of the major)
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
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)



**SJSU Catalog & Class Schedule Policies & Procedures**

**SPRING 2018**

**October 27, 2017**

**ALL DATES, FEES & INFORMATION SUBJECT TO CHANGE WITHOUT NOTICE**

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 the major (ENGR 195 A/B plus ENGR 195 C/D)
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;
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 or ENGR 195 C/D 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)
Kinesiology, BS.....	BIOL 65 and BIOL 66 fulfill Area B2, Physical Education with completion of the major
Kinesiology- Preparation for Teaching, BS.....	Physical Education with completion of the major
Industrial Design, BS.....	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
Music, Jazz Studies BM.....	Physical Education Waived
Music, Performance BM.....	Physical Education Waived
Physics, BA.....	Area B2(Intensive Science with completion of the major)
Physics, BS.....	Area B2(Intensive Science with completion of the major)
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)
- Behavioral Science (BA){with AA-T in Global Studies or AA-T in Social Justice Studies}
- 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 General Business (BS)
- Business Administration, Concentration in Global Operations Management (BS)
- Business Administration, Concentration in Entrepreneurship (BS)
- Business Administration, Concentration in Finance (BS)
- Business Administration, Concentration in Human Resource Management (BS)
- Business Administration, Concentration in Management (BS)
- Chemistry (BA)
- Chemistry (BS)
- Computer Science (BS)

**SJSU Catalog &  
Class Schedule  
Policies &  
Procedures**

**SPRING 2018**

**October 27, 2017**

**ALL DATES, FEES & INFORMATION  
SUBJECT TO  
CHANGE WITHOUT NOTICE**

- 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 (Multiple Subject) (BA) {with AA-T in Elementary Education}
- Spanish (BA)
- Spanish - Preparation for Teaching (BA)