SCI 2 & AREA E

DIVERSITY
AREA E GOALS

• Students will understand themselves as integrated **physiological**, **social**, and **psychological** entities who are able to **formulate strategies** for lifelong personal development.

• Courses shall address challenges confronting students who are entering the complex social system of the university, so that students can employ available university resources to support academic and personal development.
UNDERSTANDING GENERAL EDUCATION REQUIREMENTS, AREA E,

AND THE IMPORTANCE OF UNDERSTANDING PREREQUISITES AT SAN JOSE STATE UNIVERSITY

A SUCCESS AS SPARTANS PRODUCTION

(SCI 2 / 90T)
San Jose State Univ. graduation requirements

San Jose State University graduation requirements consist of:

GE + Major Req + 6 units American Institutions + 2 Kin (physical activity)courses

SJSU DEGREE!
General Education AT SJSU

- General Education requirements at SJSU are divided into 2 categories:
  - Core GE (A-E)
  - SJSU Studies (R,S,V & Z)
General Education – Core Courses

GE Area A
Basic Skills
9 UNITS

A1. Oral Communication (A1)
COMPLETE ONE 3 UNIT COURSE
- COMM 020. Public Speaking
- COMM 020N. Pub Sp Nonn Spiks
- COMM 040. Argmnt/Advocacy
- HUM 001A-B, 002A-B. Culture & Society
- MAS 074. Public Address

A2. Written Communication IA
COMPLETE ONE 3 UNIT COURSE
Students must satisfy the English Placement Test (EPT) requirement prior to enrollment.
- ENGL 001A. Composition 1
- HUM 001A-B, 002A-B. Culture & Society

A3. Critical Thinking
COMPLETE ONE 3 UNIT COURSE
- COMM 041. Crit Dec Making
- ENGL 007. Critical Thinking
- HIST 050. Historical Process
- HUM 001A-B, 002A-B. Culture & Society
- LING 021. Langu and Thinking
- PHIL 057. Logic & Crit Reas
- POLS 020. Contrv Legal Iss

GE Area B
Science and Mathematical Concepts
9 UNITS

B1. Physical Science
- ASTR 010. Descript Astronomy
- CHEM 003A (L). Intro Chem
- CHEM/PHYS 035 (L). Intro to Phy Sci
- ENGR 005. Science of High Technology
- GEOG 001. Geog Natural Env
- GEOL 001. General Geology
- GEOL 003. Planet Earth
- GEOG 006. Geol of California
- GEOL 007 (L). Earth, Time and Life
- METR 010. Weather & Climate
- METR 012. Global Warning
- MUSE: Course (61)
- NURS 001A. Science of Foods
- PHYS 001. Elem Phys

B2. Life Science
- ANTH 012. Intro to Human Evol
- BIOL 010. The Living World
- BIOL 020 (L). Ecol Biol
- BIOL 021 (L). Human Biology
- ENV 010. Life Chang Planet
- MUSE Course (92)

B3. Laboratory Science
The following courses meet the Lab requirement only.
- ASTR 102 (L). Astr Lab (1 unit)
- BIOL 150/GEOL 150 (L). Fld Sids Nat Hist (1-2 units)
- GEOL 004L (L). Planet Earth Lab
- PHYS 001L (L). Elem Phys Lab (1 unit)

B4. Mathematical Concepts
You must satisfy the Entry Level Mathematics requirement prior to enrollment in one of the following courses:
- HS 067. Intro Health Stat
- MATH 001. College Alg & Trig
- MATH 010. Math for Gen Ed
- MATH 012. Number Systems
- MATH 019. Precalculus
- PHIL 000. Math/Logic for GE
- STAT 005. Elem Stat

Intensive Math
Students who have not completed a course satisfying Area B4, and who have completed MATH 030, MATH 030P, MATH 031, MATH 032, 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.

Intensive Science
Students who desire a more intensive plan of courses to satisfy Core GE may submit a petition to the Associate Dean of the College of Science, SCI 127. For more details, go to www.sjsu.edu/ugs/docs/petitions/intensive_Science.pdf.
General Education – Core Courses

GE Area C
Humanities & Arts
9 UNITS

C1. Arts
COMPLETE ONE 3 UNIT COURSE
☐ AMS 001A-B. American Civ
☐ ARTH 015. Visual Culture
☐ ARTH 070A. Art Hist Prehis-Med
☐ ARTH 070B. Art Hist Ren-Mod
☐ ARTH/ASIA 070C. Arts of Asia
☐ ARTH 072. Design in Society
☐ DANCE 010. Dance Appreciation
☐ HUM 001A-B. 002A-B. Culture & Society
☐ MUSC 010A. Music Appreciation
☐ MUSC 010B. Intro to Music
☐ MUSC/ASIA 019. Mus Wild Cultures
☐ MUSE: Course (C1)
☐ FIL 002. Intro to Film
☐ RTVF 010. The Art of Film
☐ TA 005. Acting
☐ TA 010. Theatre Appreciation

C2. Letters
COMPLETE ONE 3 UNIT COURSE
☐ AMS 001A-B. American Civ
☐ CHIN 025A. Intro Chinese
☐ CHIN 025B. Intro Chinese
☐ ENGL 010. Great Works of Lit
☐ ENGL 022. Fantasy Science Fiction
☐ ENGL 040. Contemp World Fiction
☐ ENGL 071. Intro Creative Writ
☐ ENGL 078. Intro Shakespeare
☐ FREN 025A. Intro Fren Reading
☐ FREN 025B. Intro Fren Writing
☐ GERF 025A. Intro German
☐ GERF 025B. Intro German
☐ HUM 001A-B. 002A-B. Culture & Society
☐ JPN 025A. Inter Japanese
☐ JPN 025B. Inter Japanese
☐ MUSE: Course (C2)
☐ PHIL 010. Intro to Phil
☐ PHIL 051. Moral Issues
☐ PHIL 070A. Ancient Philosophy
☐ PHIL 070B. Modern Philosophy
☐ POLS 003. Intro Pol Thought
☐ RELS/HUM/SCI 070A. Western Religions
☐ RELS/HUM/SCI 070B. Eastern Religions
☐ RELS/HUM/SCI 070C. Bible Hist and Lit
☐ SPAN 025A. Inter Spanish

C3. Written Communication 1B
COMPLETE ONE 3 UNIT COURSE
☐ ENGL 001B. Composition 2
☐ HUM 001A-B. 002A-B. Culture & Society
Students who satisfy Written Communication 1B with a course certified in another area of GE must complete Area C with a second course in Arts or Letters.

GE Area D
Social Science
9 UNITS

D1. Human Behavior
COMPLETE ONE 3 UNIT COURSE
☐ ANTH 011. Cultural Anthro
☐ CHAD 075. Imagination & Play
☐ CMPE 025. Digital World
☐ COMM 010. Comm and Relations
☐ COMM 021. Perf Cult Soc
☐ ECON 001B. Prin of Econ
☐ ENGR/TECH 008. Technology and Women
☐ GEOG 010. Cultural Geography
☐ HSGM/HIT 015. Human Life Span
☐ LING 020. Nature of Language
☐ MUSE: Course (D1)
☐ OCTH 010. Homeless Americans
☐ PSYC 001. General Psychology
☐ PSYC 002. Child & Addl Psych
☐ PSYC 003. Intro to Sociol
☐ SOCIO 011. Intro to Sociology
☐ WOMS 010. Sex & Gender Roles

D2. Comparative Systems
COMPLETE ONE 3 UNIT COURSE
☐ AMS 003A-B. As Am Us Hist/Pol
☐ AMS 001A-B. American Civ
☐ POLS 003. Intro Pol Thought
☐ RELS/HUM/SCI 070A. Western Religions
☐ RELS/HUM/SCI 070B. Eastern Religions
☐ RELS/HUM/SCI 070C. Bible Hist and Lit
☐ SPAN 025A. Inter Spanish

D3. Social Issues (D3)
COMPLETE ONE 3 UNIT COURSE
☐ AAS 003A-B. As Am US Hist/Pol
☐ AMS 001A-B. American Civ
☐ ENVS 001. Intro Environ Iss
☐ HIST/POLS 015A-B. US History/Govt
☐ HUM 001A-B. 002A-B. Culture & Society
☐ MAS 010A-B. Mex Am Us Hist/Govt
☐ MCOM 072. Mcom & Society
☐ MUSE: Course (D3)
☐ POLS 04. Intro Intl Rel
☐ SOCI 060. Social Problems
☐ SOCI 116. Global Society

GE Area E
Human Understanding & Development
3 UNITS

D1. Human Behavior
COMPLETE ONE 3 UNIT COURSE
☐ ANTH 025. Human Life Context
☐ BIOL 054. Human Understanding
☐ BUS 012. Money Matters
☐ CHAD 020. Child Development
☐ CHAD/KN 067. Dev Human Potential
☐ EDCO 004. Personal, Academic and Career Exploration
☐ GEOG 005. Hum Dev Nat World
☐ HRTM 010. Great Meaning Life
☐ HS 001. Understand Health
☐ KIN 060. Stress Management
☐ LING 022. Lang Across Life
☐ MUSE: Course (E)
☐ NUFS 009. Intro Human Nutr
☐ PHIL 012. Phil of the Person
☐ RELS 000. Death Dying & Rel
☐ SCI 002. Success in Science
☐ SOC/UNVS 067. Community Involve
☐ TA 040. Beyond Words
General Education – American Institutions

GE Area F
American Institutions

6 UNITS

All three requirements (US History, US Constitution, and California Government) must be completed from the following coursework.

Courses do not satisfy Core GE unless there is a GE area designator in parentheses. The WST is not a prerequisite for any of these courses.


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

- AAS 033A-B. As Am US-Hist/Pol (D2/3)
- AFAM 02A-B. AAm & Dev Am Hist/Gv
- AMS 001A-B. American Civ (C1/2, D2/3)
- HIST/POLS 015A-B. US History/Govt (D2/3)
- HUM 001A-B, 002A-B. Cul & Society (A1/2/3, C1/2/3, D2/3)
- MAS 010A-B. Max Am US Hist/Govt (D2/3)

F1. American History Only

- HIST 020A-B. Hist of Amer People
  Both courses must be completed to satisfy the requirement
- HIST 170. Topics Amer Hist

F2-3. US Constitution & California Government Only

- POLS 001. Amer Govt

F3. California Government Only

- HIST 189A. California to 1000
- HIST 189B. California fr 1000
- POLS 102. State Politics
General Education Courses — SJSU Studies

SJSU Studies

12 UNITS

Formerly Advanced GE
Students must complete 12 units of SJSU Studies courses.

- All SJSU Studies courses must be completed at SJSU.
- Complete one SJSU Studies course in each category.
- Prior to enrollment, all courses require completion of Core GE, satisfaction of the Writing Skills Test, and upper division standing. (For students who begin continuous enrollment Fall 2005 or later, 100W is prerequisite or co-requisite to enrollment in all other SJSU Studies courses).
- Students who fail the WST must consult their major advisor for appropriate preparation for SJSU Studies courses.
- For students who begin continuous enrollment Fall 2005 or later, courses used to satisfy Areas R, S, and V must be taken from three separate SJSU departments or other distinct academic units.
- Students can satisfy Areas R, S, V & Z taking COMM/ENVS/GEOL/HUM/HUMETR 168/169W: Global Climate Change. This is a year-long course; students enroll in 6 units in the Fall and 3 units in the Spring. By successfully completing this course, students will fulfill all 12 required units of SJSU Studies: Areas R, S, V, Z.

GE Area R
Earth & Environment

COMPLETE ONE 3 UNIT COURSE

- ANTH 160. Recon Lost Civs
- ASTR 101. Modern Astronomy
- Biol 101. Origins of Life
- BIO 110. Biodiversity
- COMM/ENVS/GEOL/HUM/HUMETR 168/169W: Global Climate Change

Successful completion of this year-long course satisfies Areas R, S, V, Z

- ENGR 100W. Engr Reports
- For approved majors only
- ENVS 162. Envir Global Hydtr
- GEOL 102. Earth Systems
- GEOL 105. Gen Oceanography
- GEOL 107. Prehistoric Life
- GEOL/ENVS 111. Geol and Envir
- GEOL 112. Earthquakes Vulcano
- LING 123. Sound Comm
- METR 112. Global Climate Chang
- METR/ENVS 113. Atmos Pollution
- NURS 115. Issues in Food Tox
- NURS 139. Science & Hunger
- NURS/PHIL 163. Phys. & Nutrit
- PHIL 160. Phil of Science
- PHYS/MUST 168. Physics of Music
- UNVS 109. Climate Solutions

GE Area S
Self, Society & Equality in the U.S.

COMPLETE ONE 3 UNIT COURSE

- AAS 175. Asian Am Comm
- AAS 185. Multi Persp Am Soc
- AMS/HUM 160. Amer Dream
- ANTH 140. Human Sexuality
- COMM/ENVS/TA 172. Arts in Our Society
- QHAD 102. Dev of Self in Soc
- COMM/ENVS/GEOL/HUM/HUMETR 168/169W: Global Climate Change

Successful completion of this year-long course satisfies Areas R, S, V, Z

- COMM 174. Interunitl Comm
- EDSE 103. Disability & Socie
- EDUC/PSG/COMM/ENGR/RA/SCI 157. Comm Action & Serv
- ENGL 160. Ethnicity in Amer Lit
- ENGL 174. Lit. Self, Society
- GERHS/IS/COM/SOC 107. Aging and Society
- HIST 186. Hist Women in US
- HPRF/ENVS/NURS/OCHE 136. Hst Mntur
- HRT 111. Lns CULT & Ident
- JS 132. Race Gender Inequality & Law
- JS 136. Family & Comm Violence
- KIN 101. Sport in America
- KINHS 165. Diversity/Sex/Elth
- LING 129. Cult/gEthn/In US
- MAS 130. Asian Amer Soc
- MAS 163. Gender & Sexuality
- MUSC 120. Worlds of Jazz
- PHIL/PSU 186. Prof & Bus Ethics
- POLS 120. US Law and Society
- PSYC 191. Psych of Prejudice
- REL 162. Relig Controversy
- REL/HUM 101. Relig in America
- RIVF 110. Elec Media & Cult
- SOC 162. Race/Ethnic Rela
- UREP 101. The City
- WOMS 101. Study of Women
General Education Courses – SJSU Studies

GE Area V
Culture, Civilization & Global Understanding

COMPLETE ONE 3 UNIT COURSE
- AMS/ENVS/HUM 150, Nat & World Culture
- ANTH 115, Global Culture
- ANTH 146, Culture in Conflict
- ART 100A, World Art/Culture
- ARTH/ARTH 102B, East West in Art
- CAV/ENG/RO/TA 173, Cont World Arts
- CHAD 106, Concepts of Child
- CHIN/HUM 140, Chin Cul & Pol Lit
- COMM/ENVS/GEOL/HUM/METR 18B/18W, Global Climate Change

Successful completion of this year-long course satisfies Areas F, R, L, V & Z

- DANC 102, Dance in Wild Cult
- ENGL 117, Film, Lit, Culture
- ENGL 123A, Global-U.S.-America
- ENGL 123B, Global-U.S.-Africa
- ENGL 125C, Global-U.S.-Oceania
- ENGL 125D, Global-U.S.-Asia
- ENGL/WRIT 125, Holocaust Literature
- FREN 102A, French Lit & Cine
- GEOG 112, Nat Cult Terr Dis
- HIST 153, Hist Women Europe
- HIST 155, 20th Century World
- HUM/ANTH/SCI/VEL 114, Legacy of Asia
- HUM 129, Twentieth Century
- JS 116, HR and Justice
- LING/ASIA 122, English World Lang
- MUSC 117, Mus Cul Latin Am
- NUFS 144, Food Culture
- PHIL/ASIA/VEL 104, Asian Philosophy
- PHIL 110, Sci Tech & Hum Val
- PHIL 133, Ethics in Science
- PHIL 134, Computers, Ethics, Society
- POLS 150, War and Peace
- RELS/ANTH 212, Magic Science Relig
- RELS/ANTH/SCI/VEL 145, Midwest Tradition
- RTVF 111, Alternative Cinema
- SPAN 102A, Hisp Amer Culture
- TAENGL 127, Contemp Theatre
- TEE/COM/A/ENG/E/ME 10B, Technol & Soc
- UNVS 100, Climate Solutions
- WOMS 102, Global Study of Women

GE Area Z
Written Communication II

3 UNITS

All students must satisfy Area Z by:
- Earning a “C” or better in English 1B (or equivalent), 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;
- Competing the Graduation Writing Assessment Requirement (GWAR) at another CSU or equivalent coursework at another university prior to SJSU enrollment;
- Obtaining a waiver score on the WST. If you waive 100W, you only need to complete 9 units of SJSU Studies in Earth & Environment, Self, Society & Equality in the U.S.; and Culture, Civilization & Global Understanding.

COMPLETE ONE 3 UNIT COURSE
- AFAM 100W
- ANTH 100W
- ART 100W
- ARTH 100W
- ASIA 100W
- CA 100W
- CHAD 100W
- CHEM 100W
- COMM 100W
- COMM/ENVS/GEOL/HUM/METR 18B/18W, Global Climate Change

Successful completion of this year-long course satisfies Areas F, R, L, V & Z

- CHEM 100W
- CS 100W
- ECON 100W
- ENGL 100W
- ENGR 100W
- ENVS 100W
- ENVS/GEOL/HUM/METR 18B/18W, Global Climate Change
- GEOG 100W
- GEOL 100W
- HIST 100W
- HUM/AM/SCI/VEL 100W
- JS 100W
- KIN 100W
- LL 100W
- MATH 100W
- MCOM 100W
- MUSC 100W
- POLS 100W
- PSYC 100W
- SOC 100W
- SOCS 100W
- TA 100W
- THET/COM/A/ENG/E/ME 10B, Technol & Soc
The 4 Basic Skills of GE

- Area A1 Oral Communications
- A2 Written Communication 1A
- A3 Critical Thinking
- Area B4 Mathematical Concepts

- Must be passed with a grade of C or higher to obtain GE credit (C- is not acceptable grade)

- Other GE core areas can be satisfied with a grade of D

- SJSU studies areas R,S,V & (starting F11) must also be passed with a C grade to get GE credit.
Pre Requirements to taking SJSU STUDIES

• In order to meet the **prerequisites** to enroll in SJSU studies courses you must:
  – i. Take and pass English 1B (or equivalent)
  – ii. Complete core GE
  – iii. Have upper division standing (60 units or more)
  – iv. Take and pass the WST

• Note: All SJSU studies courses must be taken at SJSU and cannot be transferred in from another school
Understanding Prerequisites

Q: What is a prerequisite?

A: A prerequisite is a requirement which must be satisfied in order to proceed. In the case of college courses a prerequisite is a condition that must be met to proceed. The condition may be a course or exam that must be taken and successfully passed in order to proceed to the next course.

Prerequisites can usually be found in the university catalog. Simply find the course that you are interested in and follow the trail of prerequisites to the intro or “gate way” course.
Examples of prerequisites:
The prerequisites for CHEM 112B

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 112B</td>
<td>Organic Chemistry</td>
<td>Continuation of CHEM 112A. Prerequisite: CHEM 112A (with a grade of “C” or better; “C-” not accepted).</td>
</tr>
<tr>
<td>CHEM 112A</td>
<td>Organic Chemistry</td>
<td>Chemistry of the carbon compounds, both aliphatic and aromatic, emphasizing underlying concepts. Prerequisite: CHEM 1B (with a grade of “C” or better; “C-” not accepted). 3 units</td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry</td>
<td>Topics including stoichiometry, colligative properties, kinetics, equilibria, thermodynamics and electrochemistry. Lab program complements lecture. Prerequisite: CHEM 001A (with a grade of “C” or better; “C-” not accepted).</td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry</td>
<td>Topics including stoichiometry, reactions, atomic structure, periodicity, bonding, states of matter, energy changes, solutions using organic and inorganic examples. Lab program complements lecture</td>
</tr>
</tbody>
</table>
Terms and definitions (may appear on midterm)

1. General education course
2. American Institutions courses
3. Supporting courses
4. Required (or major) courses
5. Capstone courses-special topical courses
6. Electives (in the major)
7. Electives (open electives)
8. University
9. College
10. Department (major)
11. Prerequisites