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.

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”.
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.

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.

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
408-924-2129
General Education (GE) - Requirements Overview

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.
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
GEOL 001 (L) ............... General Geology
GEOL 003 ....................... Planet Earth
GEOL 006 ..................... Geology of California
GEOL 007 (L) .............. Earth, Time & Life
GEOL 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
GEOL 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/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 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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 072</td>
<td>Design in Society</td>
</tr>
<tr>
<td>DANC 010</td>
<td>Dance Appreciation</td>
</tr>
<tr>
<td>FORL 025</td>
<td>World Cultures through Literature and Cinema</td>
</tr>
<tr>
<td>HUM 001A-1B</td>
<td>World Cultures &amp; Societies- Honors</td>
</tr>
<tr>
<td>HUM 002A-2B</td>
<td>Modern World Cultures - Honors</td>
</tr>
<tr>
<td>KIN 068</td>
<td>Visual Representations of Sport in Popular Culture</td>
</tr>
<tr>
<td>MUSC 004A</td>
<td>Music Systems IVA</td>
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<tr>
<td>MUSC 004B</td>
<td>Music Systems IVB</td>
</tr>
<tr>
<td>MUSC 010A</td>
<td>Music Appreciation</td>
</tr>
<tr>
<td>MUSC 010B</td>
<td>Introduction to Music</td>
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<tr>
<td>MUSC/ASIA 019</td>
<td>Music in World Cultures</td>
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<tr>
<td>PHIL 066</td>
<td>Introduction to Aesthetics</td>
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<tr>
<td>RTVF 010</td>
<td>The Art of Film</td>
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<tr>
<td>TA 005</td>
<td>Acting</td>
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<tr>
<td>TA 010</td>
<td>Theatre Appreciation</td>
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<tr>
<td>LETTERS (C2)</td>
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<tr>
<td>AMS 001A-B</td>
<td>American Civilization</td>
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<tr>
<td>CHIN 001A</td>
<td>Elementary Chinese</td>
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<tr>
<td>CHIN 001B</td>
<td>Elementary Chinese</td>
</tr>
<tr>
<td>CHIN 025A</td>
<td>Intermediate Chinese</td>
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<tr>
<td>CHIN 025B</td>
<td>Intermediate Chinese</td>
</tr>
<tr>
<td>ENGL 001B</td>
<td>Argument and Analysis</td>
</tr>
<tr>
<td>ENGL 010</td>
<td>Great Works of Literature</td>
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<tr>
<td>ENGL 020</td>
<td>The Graphic Novel</td>
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<tr>
<td>ENGL 021</td>
<td>Mystery Fiction</td>
</tr>
<tr>
<td>ENGL 022</td>
<td>Fantasy &amp; Science Fiction</td>
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<tr>
<td>ENGL 040</td>
<td>Contemporary World Fiction</td>
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<tr>
<td>ENGL 071</td>
<td>Creative Writing</td>
</tr>
<tr>
<td>ENGL 078</td>
<td>Introduction to Shakespeare’s Drama</td>
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<td>FORL 025</td>
<td>World Cultures through Literature and Cinema</td>
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<tr>
<td>FREN 001A</td>
<td>Elementary French</td>
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<td>FREN 001B</td>
<td>Elementary French</td>
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<tr>
<td>FREN 025A</td>
<td>Intermediate French: Reading</td>
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<tr>
<td>FREN 025B</td>
<td>Intermediate French: Writing</td>
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<tr>
<td>GERM 001A</td>
<td>Elementary German</td>
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<tr>
<td>GERM 001B</td>
<td>Elementary German</td>
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<td>GERM 025A</td>
<td>Intermediate German</td>
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<tr>
<td>GERM 025B</td>
<td>Intermediate German</td>
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<tr>
<td>HUM 001A-1B</td>
<td>World Cultures &amp; Societies- Honors</td>
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<tr>
<td>HUM 002A-2B</td>
<td>Modern World Cultures - Honors</td>
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<tr>
<td>HUM 0010</td>
<td>Chronicles of Education</td>
</tr>
<tr>
<td>JPN 001A</td>
<td>Elementary Japanese</td>
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<tr>
<td>JPN 001B</td>
<td>Elementary Japanese</td>
</tr>
<tr>
<td>JPN 025A</td>
<td>Intermediate Japanese</td>
</tr>
<tr>
<td>JPN 025B</td>
<td>Intermediate Japanese</td>
</tr>
<tr>
<td>JWSS 018Q</td>
<td>Superheroes &amp; Geeks</td>
</tr>
<tr>
<td>MUSC 0012</td>
<td>Medieval and Renaissance Music</td>
</tr>
<tr>
<td>PHIL 010</td>
<td>Introduction to Philosophy</td>
</tr>
</tbody>
</table>

**October 27, 2017**

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

**CONTENTS**
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 (O1)

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
ENCR/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
## 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 025**  The 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.

<table>
<thead>
<tr>
<th>HUMAN UNDERSTANDING &amp; DEVELOPMENT (E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 025 ............................. Human Lifecourse in Context</td>
</tr>
<tr>
<td>BIOL 054 ............................. Human Understanding</td>
</tr>
<tr>
<td>BUS3 012 ............................. Money Matters</td>
</tr>
<tr>
<td>CA 060 ............................... Creativity Matters</td>
</tr>
<tr>
<td>CHAD 060 ............................. Child Development</td>
</tr>
<tr>
<td>CHAD 070 ............................. Lifespan Development in the 21st Century</td>
</tr>
</tbody>
</table>
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)
- 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 015 Essentials of US & California 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

^ = 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 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
** 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 179: Asian American Communities
- AAS 189: 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/SCOS/ANTH/HIST 138: United States in Historical & Social Science Perspectives
- GERO/HS/SCWK 107: Aging & Society
- HIST 170S: Topics in History: Asian American Communities
- HIST 188: History of Women in the United States
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 123A</td>
<td>Literature for Global Understanding-The Americas</td>
</tr>
<tr>
<td>ENGL 123B</td>
<td>Literature for Global Understanding-Africa</td>
</tr>
<tr>
<td>ENGL 123C</td>
<td>Literature for Global Understanding-Oceania</td>
</tr>
<tr>
<td>ENGL 117B</td>
<td>Global Film, Literature &amp; Cultures</td>
</tr>
<tr>
<td>EE 198B</td>
<td>Senior Design Project II</td>
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<tr>
<td>CMPE/SE 195B</td>
<td>Senior Design Project II</td>
</tr>
<tr>
<td>COMM 179</td>
<td>Media &amp; Resistance</td>
</tr>
<tr>
<td>COMM/ENVS/GEOL/HUM/METR 168A/168B</td>
<td>Global Climate Change</td>
</tr>
<tr>
<td>CHIN/ASIA 140</td>
<td>Chinese Culture &amp; Politics Through Literature</td>
</tr>
<tr>
<td>WOMS 101</td>
<td>The Study of Women</td>
</tr>
<tr>
<td>KIN 101</td>
<td>Sport in America</td>
</tr>
<tr>
<td>KIN/HS 169</td>
<td>Diversity, Stress &amp; Health</td>
</tr>
<tr>
<td>LING 129</td>
<td>Culture, Language and Ethnicity in the U.S.</td>
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<tr>
<td>MAS 130</td>
<td>Chicanas &amp; Chicanos in American Society</td>
</tr>
<tr>
<td>MAS 160</td>
<td>Gender and Sexuality in the Chicana/o Community</td>
</tr>
<tr>
<td>MATE 198A</td>
<td>Senior Design Project</td>
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<tr>
<td>ME 195A*</td>
<td>Senior Design Project</td>
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<tr>
<td>MUSC 120</td>
<td>Worlds of Jazz</td>
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<tr>
<td>NURS 138</td>
<td>Professional Role Development VI</td>
</tr>
<tr>
<td>PHIL/BUS3 186</td>
<td>Professional &amp; Business Ethics</td>
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<tr>
<td>POLS 120</td>
<td>Law &amp; Society</td>
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<tr>
<td>PSYC 191</td>
<td>The Psych of Prejudice</td>
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<tr>
<td>RECL 111</td>
<td>Leisure, Culture, &amp; Identity</td>
</tr>
<tr>
<td>RELS 162</td>
<td>Religion &amp; Political Controversy in the US</td>
</tr>
<tr>
<td>RELS/HUM 191</td>
<td>Religion in America</td>
</tr>
<tr>
<td>RTVF 110</td>
<td>Electronic Media &amp; Culture</td>
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<tr>
<td>SOCI 162</td>
<td>Race &amp; Ethnic Relations</td>
</tr>
<tr>
<td>URPB 101</td>
<td>The City</td>
</tr>
<tr>
<td>WOMS 101</td>
<td>The Study of Women</td>
</tr>
</tbody>
</table>

*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.
<table>
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<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>ENGL 123D</td>
<td>Literature for Global Understanding: Asia</td>
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<tr>
<td>ENGL/WSS/HUM/FORL 126</td>
<td>Holocaust Literature</td>
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<tr>
<td>ENGR 195B*</td>
<td>Global and Social Issues in Engineering</td>
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<tr>
<td>ENGR 195D*</td>
<td>Interdisciplinary Senior Project II</td>
</tr>
<tr>
<td>FREN 102B</td>
<td>Francophone Cultures: Through Literature &amp; Cinema</td>
</tr>
<tr>
<td>GEOG 112</td>
<td>Nations, Cultures &amp; Territorial Disputes</td>
</tr>
<tr>
<td>GEOG/SOCS/ANTH/HIST 139</td>
<td>The World in Historical &amp; Social Science Perspectives</td>
</tr>
<tr>
<td>GLST 143</td>
<td>Technology, Politics, and International Development</td>
</tr>
<tr>
<td>GLST 188</td>
<td>Special Topics in International Experiences</td>
</tr>
<tr>
<td>HIST 153</td>
<td>History of Women in Europe</td>
</tr>
<tr>
<td>HIST 155</td>
<td>20th Century World</td>
</tr>
<tr>
<td>HUM/ANTH/ASIA/RELS 114</td>
<td>Legacy of Asia</td>
</tr>
<tr>
<td>HUM 128</td>
<td>Perspectives on the Twentieth Century: The West in a Global Context</td>
</tr>
<tr>
<td>HUM 177A/177B**</td>
<td>Advanced Honors in Integrated Science, Social Science and Humanities</td>
</tr>
<tr>
<td>JS 171</td>
<td>Human Rights &amp; Justice</td>
</tr>
<tr>
<td>KIN 111</td>
<td>Sport &amp; Movement in a Global Context</td>
</tr>
<tr>
<td>KIN 111ITL</td>
<td>Sport &amp; Movement in a Global Context: International Experience</td>
</tr>
<tr>
<td>LING/ASIA 122</td>
<td>English as a World Language</td>
</tr>
<tr>
<td>MATE 198B*</td>
<td>Senior Design Project</td>
</tr>
<tr>
<td>ME 195B*</td>
<td>Senior Design Project II</td>
</tr>
<tr>
<td>MUSC 117</td>
<td>Music &amp; Culture in Latin America</td>
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<tr>
<td>NUFS 144</td>
<td>Food Culture: Consuming Passions</td>
</tr>
<tr>
<td>PHIL/ASIA/RELS 104</td>
<td>Asian Philosophy</td>
</tr>
<tr>
<td>PHIL 110</td>
<td>Science, Technology &amp; Human Values</td>
</tr>
<tr>
<td>PHIL 133</td>
<td>Ethics in Science</td>
</tr>
<tr>
<td>PHIL 134</td>
<td>Computers, Ethics, &amp; Society</td>
</tr>
<tr>
<td>POLS 150</td>
<td>War &amp; Peace</td>
</tr>
<tr>
<td>POLS 170V</td>
<td>Am Politics-Global Perspective (US 2/US 3)</td>
</tr>
<tr>
<td>RELS/ANTH 122</td>
<td>Magic, Science &amp; Religion</td>
</tr>
<tr>
<td>RELS/ANTH/MDES 145</td>
<td>Middle Eastern Traditions</td>
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<tr>
<td>RTVF 111</td>
<td>Alternative Cinema</td>
</tr>
<tr>
<td>SPAN 102B</td>
<td>Hispanic American Culture</td>
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<tr>
<td>TA/ENGL 127</td>
<td>Contemporary Theatre</td>
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<tr>
<td>TECH/CMPE/ENGR/AE/ME 198</td>
<td>Technology &amp; Civilization</td>
</tr>
<tr>
<td>UNVS 109</td>
<td>Climate Solutions Initiative</td>
</tr>
<tr>
<td>WOMS 102</td>
<td>The Global Study of Women</td>
</tr>
</tbody>
</table>

*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 ENCL 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
• 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.

WRITTEN COMMUNICATION II (2)
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
SOCL 100W
SOCSC 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].

<table>
<thead>
<tr>
<th>MAJOR/PROGRAM</th>
<th>GE AREA MODIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animation/Illustration</td>
<td>Physical Education Waived</td>
</tr>
<tr>
<td>Aviation</td>
<td>GE Area B2 (Intensive Science with completion of major); Area D1 (with completion of AMS Sequence); Physical Education Waived</td>
</tr>
<tr>
<td>Biology, BA</td>
<td>GE Area R (completion of major, BIOL 115+(BIOL 160,BIOL 178, BIOL 135B, or MICR 127) w/C or better)</td>
</tr>
<tr>
<td>Biology, E&amp;Ecology &amp;Evolution</td>
<td>Area R (completion of major, BIOL 115+BIOL 160, w/C or better)</td>
</tr>
<tr>
<td>Biology, Marine</td>
<td>GE Area A3 met with completion of the major, Area R (completion of major, BIOL 115+BIOL 160, w/C or better)</td>
</tr>
<tr>
<td>Biology, Microbiology</td>
<td>GE Area R (completion of major, MICR 166+MICR 127, w/C or better)</td>
</tr>
<tr>
<td>Biology, Molecular biology</td>
<td>GE Area R (completion of major, BIOL 115+BIOL 135B, w/C or better)</td>
</tr>
<tr>
<td>Biology, Systems Physiology</td>
<td>GE Area R (completion of major, BIOL 115+BIOL 178, w/C or better)</td>
</tr>
<tr>
<td>Chemistry, BA</td>
<td>GE Area B2 (Intensive Science with completion of the major)</td>
</tr>
<tr>
<td>Chemistry, BS</td>
<td>GE Area B2 (Intensive Science with completion of the major); GE Area D1 (with completion of AMS Sequence)</td>
</tr>
<tr>
<td>Chemistry, Biochemistry</td>
<td>GE Area A3 met with completion of the major; Area R with CHEM 130A and CHEM 131B</td>
</tr>
<tr>
<td>Computer Science</td>
<td>GE Area D1 (with completion of AMS Sequence)</td>
</tr>
<tr>
<td>Dance, BA</td>
<td>Physical Education with completion of the major</td>
</tr>
<tr>
<td>Dance, BFA</td>
<td>Physical Education with completion of the major</td>
</tr>
<tr>
<td>Earth Science, BA</td>
<td>GE Area B2 (Intensive Science with completion of the major)</td>
</tr>
<tr>
<td>Aerospace Engineering</td>
<td>GE Area A3 met with completion of major; Area B2(Intensive Science with completion of the major); Area D1 (with completion of AMS Sequence); Physical Education Waived; S&amp;V met in the major (AE 171 A/B or 172 A/B plus ENGR 195 A/B)</td>
</tr>
<tr>
<td>Biomedical Engineering</td>
<td>GE Area A3 met with completion of major; Area B2 (Intensive Science with completion of the major); Area D1 (with completion of AMS Sequence); Physical Education Waived; S&amp;V met in the major (BME 198 A/B plus ENGR 195 A/B)</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>GE Area A3 met with completion of major; Area B2(Intensive Science with completion of the major); Area D1 (with completion of AMS Sequence); Physical Education Waived</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>GE Area A3 met with completion of major; Area B2 (Intensive Science with completion of the major); Area D1 (with completion of AMS Sequence); Physical Education Waived</td>
</tr>
<tr>
<td>Computer Engineering</td>
<td>GE Area A3 met with completion of major; Area D1 (with completion of AMS Sequence); Physical Education Waived; S&amp;V met in the major (CMPE 195 A/B plus ENGR 195 A/B)</td>
</tr>
</tbody>
</table>
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 (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)
• 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)