

General Education Worksheet for Engineering Named Majors

Not for AVIA/ITECH majors. This tool is for planning purposes only as a quick view of General Education requirements and exceptions for students whose major includes "Engineering" in the title. The 2020-2021 catalog supersedes all content. Please work with an Academic Advisor in the ESSC for any clarification.

General Education Core		Engineering Course Notes	Completed at	Grade
Area A - Basic skills (9 units)		Complete one course in each category unless noted.		
A1	Oral Communication	course must be completed with C- or higher		
A2	Written Communication I	course must be completed with C- or higher		
A3	Critical Thinking & Writing	fulfilled upon completion of all major requirements		
Area B - Science & Math (9 units)		B1-2-3 fulfilled with Intensive Science Option		
B1	Physical Science	PHYS 50 and PHYS 51 and CHEM 1A (CMPE/SE take BIOL 10 instead of CHEM 1A) with a C- or better. Talk to ESSC Advisor for options.		
B2	Life Science			
B3	Laboratory Science			
B4	Mathematical Concepts	Fulfilled With Grade of C- or Higher In: MATH 30/30x or 31/31x or 32/32x		
Area C - Humanities & Arts (9 units)		Complete three total Area C courses (one must be C1 and another one must be C2)		
C1	Arts			
C2	Letters	ENGL 1B (if ENGL2 completed, choose another C2)		
C3	C1 Arts or C2 Letters			
Area D - Social Sciences (9 units)		Complete three total Area D from any topic.		
D	Human Behavior, Comparative Systems, and Social Issues			
Area E - Human Understanding & Development (3 units)				
E	All Engineering-Named Majors	ENGR 10 (only satisfies Area E if taken at SJSU Fall 13 or later); transfer students must include non-activity courses		
Graduation Requirements:			Completed at	Grade
American Institutions		Complete US 1-2-3; some courses double counts with Area D		
US 1	U.S. History			
US 2	U.S. Constitution			
US 3	California Government			
Physical Education Activity:		Waived for all College of Engineering students		
Prerequisites to SJSU Studies				
<input type="checkbox"/> Passed Writing Skills Test (WST) or LLD/Engl 100A		<input type="checkbox"/> (Upper Division Standing (60 units)		<input type="checkbox"/> ENGR 100w: C- or higher in second semester of composition
<input type="checkbox"/> Completed A1, A2, A3, B4				
SJSU Studies (Upper Div. GE)		Course notes	Completed at	Grade
All first baccalaureate students are required to have a minimum GPA of 2.0 in their SJSU Studies courses				
Area R	Earth & Environment and	ENGR 100W (must be completed with C or better; satisfies both Area R and Area Z)	SJSU	
Area Z	Written Communication II			
Area S	Self, Society & Equality in the U.S.	Depends on major; may require course co-requisite. Ask Major Advisor and refer to catalog.	SJSU	
Area V	Culture, Civilization & Global Understanding	Depends on major; may require course co-requisite. Ask Major Advisor and refer to catalog.	SJSU	

NOTE: This worksheet is NOT an official document. Official review of general education requirements is done by a Graduation Evaluator (Office of the Registrar personnel) as part of the Graduation Application and Verification Process. Advisors in the Engineering Student Success Center are as accurate as possible with the information available.

General Education Requirements

Each blank line on the worksheet represents a requirement that needs to be completed. This includes CORE GE (Areas A-E), American Institutions, and SJSU Studies. Other than the exceptions below, no single course can fulfill more than one requirement.

Sequences that fulfill multiple GE Areas:

- 1) **American Civilizations Sequence:** AMS 001A (6) + AMS 001B (6) [12 units total]
Completing entire sequence fulfills Areas C1, C2, D2, D3, US1, US2, and US3 for all majors and provides an Area D1 exception (meaning Area D1 is considered fulfilled) for College of Engineering majors.
These courses are 6 units each and should be considered the workload of at least 2 traditional courses.
NOTE: When looking at Degree Requirements for College of Engineering majors at info.sjsu.edu, AMS 1A and AMS 1B may be listed. These specific courses are not explicitly required, but are generally the most efficient way to complete lower division GE Requirements assuming no other credit or GE courses taken. While it may be the most efficient, it may not be the best match for you depending upon interests, AP credit, transfer credit, or other considerations.
- 2) **Specialized CORE GE/American Institutions Efficiencies**
Completing any of the four sequences noted below (one cannot mix and match), fulfills Areas D2, D3, and US1, US2, US3
In each case the "A" course fulfills Area D2 and the "B" course fulfills Area D3
 - CCS 010A (3) + CCS 010B (3) [must take entire series to cover US1, US2, US3]
 - AAS 033A (3) + AAS 033B (3) [must take entire series to cover US1, US2, US3]
 - AFAM 002A (3) + AFAM 002B (3) [must take entire series to cover US1, US2, US3]
 - HIST 015 (3) + POLS 015 (3) [HIST 015 fulfills D2 & US1; POLS 015 fulfills D3 & US2 & US3]
- 3) **Humanities Honors Sequence:** HUM 001A (6) + HUM 001B (6) + HUM 002A (6) + HUM 002B (6) [24 units total]
Completing entire sequence fulfills A1, A2, A3, C1, C2, C3, D2, D3, US1, US2, and US3 for all College of Engineering majors. For students in engineering named majors who *started the sequence in Fall 2015 or earlier* Area D1 is waived. This waiver does not hold for students starting the sequence in Fall 2016 or later.
NOTE: This sequence loses efficiency with any AP/IB or transfer credit for GE areas. It can also create scheduling and progress to degree challenges due to four semesters of a 6 unit course (particularly in the sophomore year).

SJSU Studies/Upper Division GE

Successfully passing the Writing Skills Test (WST) and completing at least 60 earned units are required to enroll in SJSU Studies Courses. See <http://testing.sjsu.edu/wst/> for more information. College of Engineering Majors take ENGR 100W which covers both Areas R and Z. Areas S and V are often fulfilled with coursework from the major (as noted on worksheet), otherwise students select from the approved University list.

Taking General Education Requirements at another Institution:

GE-Breadth Certification and Course-to-Course Articulation are distinct. Community Colleges may offer courses that do not articulate as a specific SJSU course but are still certified GE courses. Community Colleges may offer courses that articulate with an SJSU course for content but do not fulfill the same GE Area. SJSU honors the GE Certification Area for the course at its home institution. If a course counted toward Area C1 at XYZ CC, then SJSU will honor it as an Area C1 course. Visit <http://artic.sjsu.edu> or <http://assist.org> to see GE-Breadth Certification information for courses at California Community Colleges. *Note: The Community Colleges divide Area D into 10 categories, D1 – D0 while SJSU has D1, D2, D3. An Area D certified course in ANY of the 10 CC areas can be used to fulfill ANY Area D category at SJSU. Select CC courses can also double count for Area D and American Institutions requirements.*

GE Credit through Advanced Placement (AP), International Baccalaureate (IB), or Credit By Exam

Students may receive credit for passing scores received on AP/IB/CLEP exams. These courses count as ungraded, earned credit that may fulfill GE or Major requirements. For a list of standardized exams accepted for credit at SJSU, visit: <http://info.sjsu.edu/static/catalog/cbe.html>. Credit is only posted to your SJSU record after verification from an official score report.

What is Catalog Year and why it is important?

San Jose State University issues a new catalog every year which is the official record of all degree requirements at SJSU. These degree requirements may change from one catalog to the next. A student who has been in continuous attendance may choose to meet the SJSU graduation requirements for their degree in force at the time they entered SJSU or any requirements up to and including term of graduation. The default is the catalog in place at the time of initial matriculation. Speak with your major advisor if you have questions about your specific catalog year and how it relates to your major requirements.

You can follow your degree progress at any time through the "Academic Requirements" page in my.sjsu.edu.

Questions? Contact the Engineering Student Success Center:

408.924.3990

success-engineering@sjsu.edu

engineering.sjsu.edu/essc

06.18.2019