

Transfer Guide

San Jose State Engineering, CS, Physics, and Math - Lower Division Major Preparation

All transfer applicants must have a minimum of **60 transferable semester (90 quarter) units** completed prior to transfer. For Fall Term admission, applicants must have the coursework completed no later than the end of the previous Spring Term. It is not expected that transfer students to this major will have full completion of all G.E. requirements. *Students are strongly encouraged to meet with a Cabrillo counselor to prepare an individual education plan.* Information contained here is subject to change. User should verify using www.assist.org.

	Physics	Chemistry	Calculus/Diff. Eq./Lin Alg.	Intro. Engr	Statics	Comp Prog/Other	Electrical Circuits	Materials	Graphics
Aero	4ABC	CHEM 1A	MATH 5ABC,6,7	ENGR 5 ENGR 10	ENGR 35 ⁴	Engr 30 or CS 11	ENGR 15	ENGR 45	ENGR 25 & ENGR 26
Biomedical ¹	4AB	CHEM 1AB CHEM 12AB+L's	MATH 5ABC,7	ENGR 5 ENGR 10	ENGR 35		ENGR 15	ENGR 45	ENGR 25 & ENGR 26
Chemical	4AB	CHEM 1AB	MATH 5ABC,7	ENGR 5 ENGR 10	ENGR 35		ENGR 15	ENGR 45	
Civil ²	4AB	CHEM 1A	MATH 5ABC,7	ENGR 5 ENGR 10	ENGR 35	CS 11		ENGR 45	ENGR 25
Computer ⁷	4AB		MATH 5ABC, 6, 7,23 (or CS 23)	ENGR 5 ENGR 10		CS 19 & 21	ENGR 15		
Electrical	4ABC	CHEM 1A	MATH 5ABC,7	ENGR 5 ENGR 10		CS 11M	ENGR 15		
Gen. Eng.	4AB	CHEM 1A	MATH 5ABC,6,7	ENGR 5 ENGR 10	ENGR 35	CS 19 & CS 20J	ENGR 15	ENGR 45	
Industrial & Systems	4AB	CHEM 1A	MATH 5ABC,6,7	ENGR 5 ENGR 10		CS 19	ENGR 15	ENGR 45	ENGR 25 & ENGR 26
Materials	4AB	CHEM 1AB	MATH 5ABC,7	ENGR 5 ENGR 10	ENGR 35		ENGR 15	ENGR 45	
Mech. ⁵	4ABC	CHEM 1A	MATH 5ABC,7	ENGR 5 ENGR 10	ENGR 35	Engr 30 or CS 11	ENGR 15	ENGR 45	ENGR 25 ENGR 26
Software ⁷	4AB		MATH 5ABC, 6, 7,& 23 (or CS 23)	ENGR 5 ENGR 10		CS 19 or 20J CS 21			
Computer Science ³			MATH 5AB & 23 (or CS 23)			CS 20J, 21, 24, & 19 CIS 90			
Math	4AB or 4AC		Math 5ABC, 23 & 6			CS 19 or 20J			
Physics ⁶	4ABC	CHEM 1AB	Math 5ABC & 7						

1. Take BIO 1ABC

2. Take ENGR 1A (surveying). May substitute Engr 26 and Engr 30 for CS 11.

3. Student needs to know both Java and C++ but upper division emphasis is on Java. Major needs 11 units of science from B1, B2, and B3. See assist.org for choice list.

4. Not required in LD but recommended by Cabrillo.

5. Engr 12 required.

6. For a B.S. degree also take Math 6

7. Major must take Bio 11A

NECs for Geol 2

General Education

SJSU Engineering Admission Requirements:

60 CSU transferable units

Speech Communication – (COMM 1 recommended)

English Composition (Engl 1A)

Engl 1B strongly encouraged prior to transfer

If taking Engl 1B at Community College, student should take the Writing Skills Test (WST) at SJSU immediately after completion even though they may not be ready to transfer.

Suggested GE:

The following GE courses represent a starting point in planning general education. These are courses that will help meet minimum admission and general education requirements for most transfer institutions, but may not meet all admission requirements. NOTE: English 2 or English 1A (as well as other GE courses) may also be required, depending on your specific goals. IMPORTANT: You must meet with a counselor to confirm the needed and most appropriate GE courses.

- Comm 1
- English 1A/1AH/1AMC/1AMCH
- English 1B
- US History: Hist 14, 15, 17A, 17AH, 17B, 17BH, 18A, 19B, 21A, 21AH, 21B, 21BH, 29A, 29B
- Political Science 1 or 5

Students should see a Cabrillo counselor about other GE graduation requirements needed for SJSU.

GE Notes:

1. Critical Thinking requirement is waived for engineering students at SJSU.
2. Area B2 (Life Forms) is waived for engineering students at SJSU except for Software or Computer Engineering
3. Physical Education waived for Engineering

Although only 70 units of transfer work will count towards the total units for SJSU graduation, all requirements will be counted for content credit. So for example if a student completed all the lower div GE and all the lower div math, science and engineering, it will add up to more than 70 units. All of these courses will count as meeting content requirements.

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