



Foothill College Transfer Guide

SCHOOL OF ENGINEERING

Thank you for your interest in Santa Clara University! This guide has been designed to help make the course-planning process easier for students who wish to transfer into the School of Engineering at SCU.

Prospective transfer students please note the following prior to using this document:

- This guide represents the core (general education) curriculum Santa Clara University had in place for incoming freshmen students through Fall 2008. As of Fall 2009, SCU introduced a new core curriculum and consequently has designed new guides to assist transfer students with planning. ***Students planning to transfer into SCU for Fall 2010*** as a sophomore or a junior may still utilize the guide found on the following pages. ***Students planning to transfer in Fall 2011 and later*** need to refer to the guide designed for SCU's new core curriculum and should not use the document below for planning purposes.
- Oftentimes schools will cross-list a single course separately under different departments. This guide will individually list cross-listed courses for each department they are found in. It is a student's responsibility to notice whether or not a course is cross-listed as credit will only be issued one time from SCU.
- If a student takes an honors version of a course that is listed on this guide, SCU will accept that class as transferable.
- Math courses eligible for transfer to SCU to fulfill math requirements are listed on this guide. A Pre-Calculus course is eligible to receive general elective credit but will not satisfy SCU's core math requirement.



Foothill College Transfer Guide

SCHOOL OF ENGINEERING

Bachelor of Science in Engineering

Majors: Bioengineering, Civil Engineering, Computer Science & Engineering, Electrical Engineering, General Engineering, Mechanical Engineering, and Web Design & Engineering,

Admission requirements:

- 1) **English:** Two courses – *English 1A* and *English 1B* **OR** *English 1C*.
- 2) **Mathematics:** *Math 1A* and *1B*.
- 3) **Physical Science:** *Chemistry 1A* and *Physics 4A* and *4B*.

Recommended courses:

The following courses allow students to complete more of SCU's Core Curriculum (General Education) / School of Engineering requirements:

- 1) **Mathematics:** *Math 1C* and *1D*. *Math 2A* is also needed for all majors except Bioengineering and Web Design & Engineering. *Math 22* (or *CIS 18*) is needed by Computer Science and Engineering majors only. *Math 2B* is needed by Computer Science and Engineering and Electrical Engineering majors only.
- 2) **Computer Science:** For students with no background in programming, *CIS 15A* or *25A* is recommended. Computer Science & Engineering, Electrical Engineering, Web Design & Engineering majors need *CIS 15B* and *15C*. Bioengineering and Mechanical Engineering majors need *CIS 15B* only.
- 3) **Physical Science:** *Physics 4C*. Electrical Engineering majors need *Physics 4D*. Bioengineering majors need *Biology 1A, 1B, 1D/1DL* and *Chemistry 1B, 1C, 12A, and 12B*.
- 4) **Graphics:** *Engineering 6* is needed for Civil, Mechanical and General Engineering majors.
- 5) **Circuits:** *Engineering 37/37L*. Not required for Web Design & Engineering majors.
- 6) **Statics:** *Engineering 35*. Not required for Computer Science & Engineering and Web Design & Engineering majors.
- 7) **Properties of Materials:** *Engineering 45* is needed for Bioengineering, General and Mechanical Engineering majors only.



Foothill College Transfer Guide

SCHOOL OF ENGINEERING

Bachelor of Science in Engineering (continued)

Recommended courses to complete more of SCU's Core Curriculum / School of Engineering requirements:

- 8) **Western Culture:** Two courses from *one* of the following sequences:
Art History 2A, 2B, 2C; History 4A, 4B, 4C; Music 2A, 2B, 2C; Philosophy 20A, 20B, 20C.
- 9) **Social Sciences:** One course from the following: *Anthropology 2A, 3, 8; Economics 1A, 1B, Political Science 1, 2, 15; Psychology 1, 10, 30; Sociology 1, 10, 20, 30.*
- 10) **United States:** One course from the following: *Art 14; Communication 10, 12; English 7, 12, 31, 40, 41, 48A, 48B, 48C; Fine Arts 1, 2; History 17A, 17B, 17C; Music 8; Photography 8, Political Science 1; Sociology 8, 23; Theatre Arts 8; Video Arts 3.*
- 11) **World Cultures/Area:** One course from the following: *Anthropology 2A, 6; Art 2D, 11, 12, 13; History 8, 15, 18, 19; Philosophy 24; Political Science 2.*
- 12) **Religious Studies, Ethics, Technology** and a **Technical Writing** course are required, but count only if taken at Santa Clara University.
- 13) Consult the SCU Bulletin for additional freshmen and sophomore level requirements in your major. The Bulletin can be found on the SCU web site (www.scu.edu) under Academic Programs.

The above information is to be used as a guide for the purpose of admissions into Santa Clara University. This information is reviewed periodically and the date of the most recent update is noted in the bottom left hand corner of this guide. Students are responsible to make sure that any courses taken are listed on this guide at the time of actual enrollment. Transferability is not guaranteed and is up to our discretion, largely based upon the Santa Clara University core curriculum in effect at the time of admission.