



Santa Clara University

Cabrillo 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 and students planning to enter SCU at the freshman level please note the following prior to using this document:

- This transfer guide represents the new core (general education) curriculum Santa Clara University implemented for its incoming freshmen class in Fall 2009. ***Students planning to transfer to Santa Clara University in Fall 2011 and later*** will need to refer to this guide only for planning purposes. Students who fall into this category please make sure not to reference older guides that outline our former core curriculum. Please find a footnote located on the bottom righthand side of this document, “Core 2009,” to differentiate this document from earlier versions of our transfer guides.
- This guide is designed for **transfer students only**. Students who plan on entering SCU as a freshman and would like to utilize this guide to help select courses that will transfer to satisfy core requirements will need to note the following: 1) students may not take courses to satisfy their Critical Thinking and Writing *or* Cultures and Ideas requirements from other schools—those requirements must be taken at Santa Clara University; 2) students can satisfy their Math, Laboratory Science, Modern Language, Diversity, Social Science, and Arts requirements at another school **PRIOR** to attending SCU. ***Please note:*** Once students have begun their academic careers at SCU, they may not take classes at another institution to satisfy core and/or major/minor requirements.
- 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.



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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) **Critical Thinking and Writing:** Two courses -- one course from 1) *English* 1A, 1AH, 1AMC, 1AMCH *and* one course from 2) *English* 1B, 1BMC, 2, 2H, 2MC, 2MCH.
- 2) **Mathematics:** Two courses -- *Math* 5A and 5B.
- 3) **Physical Science:** *Chemistry* 1A; *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:

Please note: a) *No courses taken from this guide may fulfill more than one requirement;*
b) *Students must complete both Culture sand Ideas I and II prior to attending SCU otherwise they will be required to repeat this requirement in its entirety at SCU. It is strongly recommended to complete both Cultures and Ideas I and II prior to attending SCU.*

- 1) **Cultures and Ideas I (please see notation above):** One course in either Western Culture **OR** World History from the following:
Western Culture: *Art History* 11, 11H, 12, 13, 14, 20A, 20B; *History* 4A, 4B, 4AH, 4BH; *Music* 10M; *Philosophy* 6, 7.
World History: *History* 2A, 2B.
- 2) **Cultures and Ideas II (please see notation above):** One course focusing upon world cultures from the following: *Anthropology* 2, 8, 9, 17; *Art History* 16, 17, 19, 52; *Dance* 12; *English* 40, 45; *Geography* 2, 4; *History* 2A, 2B, 6, 16A, 16B, 16C, 19A, 19B, 19C; *Music* 11LA, 12; *Philosophy* 14, 15; *Political Science* 2, 3; *Sociology* 9; *Spanish* 30B; *Theatre Arts* 8; *Women's Studies* 2.
- 3) **Mathematics:** *Math* 5C. *Math* 7 is also needed for all majors except Bioengineering and Web Design & Engineering. *Math* 23 **or** *Computer Science* 23 is needed by Computer Science and Engineering majors only. *Math* 6 is needed by Computer Science and Engineering and Electrical Engineering majors only.
- 4) **Computer Science:** For students with no background in programming, *Computer Science* 12J is recommended. Computer Science & Engineering, Electrical Engineering, Web Design & Engineering majors need *Computer Science* 19 and 21. Bioengineering and Mechanical Engineering majors need *Computer Science* 19 only.
- 5) **Physical Science:** *Physics* 4C is needed for Electrical Engineering majors only. Bioengineering majors need *Biology* 1A, 1B and *Chemistry* 1B, 12A/L, 12B/L.



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Bachelor of Science in Engineering (continued)

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

- 6) **Graphics:** *Engineering 25* is needed for Civil, Mechanical and General Engineering majors.
- 7) **Circuits:** *Engineering 15*. Not required for Web Design & Engineering majors.
- 8) **Properties of Materials:** *Engineering 45* is needed for Bioengineering, General and Mechanical Engineering majors only.
- 9) **Surveying:** *Engineering 1A* is needed for Civil Engineering majors only.
- 10) **Social Science:** One course from the following: *Anthropology 2, 3; Economics 1A, 1B; Political Science 1, 1H, 2, 3; Psychology 1, 6; Sociology 1, 1H, 2, 2H, 3, 5; Women's Studies 7*.
- 11) **Diversity:** One course from the following: *History 14, 18A, 18B, 21A, 21AH, 24; Sociology 3, 8; Women's Studies 1*.
- 12) **Arts:** May be fulfilled by a combination of courses totaling a minimum of three semester units from the following: *Art Photography 9A, 9B, 43; Art 2A, 2B, 3A, 3B, 4, 5, 7A, 7B, 31A, 31B, 32, 33, 34A, 34B, 35, 36, 37A, 37B, 40A through 40Z, 45, 71, 73; Dance 58, 59, 61, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 76, 78, 81, 84, 86, 87; English 12A, 12B, 12C, 12D, 12E, 12F, 14A, 14B, 14C, 14E; Music 1, 1M, 2, 2M, 3, 3M, 4, 4M, 9A, 15A, 15B, 16, 17A, 17B, 17C, 18A, 18B, 19, 20, 22A, 23, 24A, 24B, 24C, 26A, 26B, 27, 33A, 33B, 34, 35, 36, 38, 40, 51-56, 58-61, 63-75; Theatre Arts 7, 10A, 10B, 10C, 11, 12A, 12B, 13A, 13B, 15, 17, 18, 19, 27, 28, 29, 31, 33, 34, 35, 74*.
- 13) **Cultures and Ideas III:** One additional course focusing upon world cultures from the following: *Anthropology 2, 8, 9, 17; Art History 16, 17, 19, 52; Dance 12; English 40, 45; Geography 2, 4; History 2A, 2B, 6, 16A, 16B, 16C, 19A, 19B, 19C; Music 11LA, 12; Philosophy 14, 15; Political Science 2, 3; Sociology 9; Spanish 30B; Theatre Arts 8; Women's Studies 2*.
- 14) **Ethics:** If students choose to take an Ethics class there is not a guarantee of transferability. However a student may submit course syllabus to petition for possible core requirement credit.
- 15) **Civic Engagement, Religious Studies, Advanced Writing, and Science, Technology & Society are requirements that must be fulfilled at Santa Clara University.**
- 16) 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.