

Santa Clara University

Undergraduate

School of Engineering

Mission College Transfer Guide

For use by Transfer Applicants

Use the **TRANSFER CREDIT PLANNER** to map out your transfer credit.

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 to the School of Engineering at Santa Clara University.

Admission Recommendations for Transfer Students:

School of Engineering:

Bachelor of Science majors: Bioengineering, Civil Engineering, Computer Science & Engineering, Electrical Engineering, General Engineering, Mechanical Engineering, and Web Design & Engineering

Courses strongly recommended for admission:

- Two English composition courses (*aka: Critical Thinking & Writing 1 & 2*)
- Mathematics: MATH 3A and MATH 3B
- One natural science: CHEM 1A
- Two calculus-based physics courses: PHYS 4A and PHYS 4B
 - Web Design Engineering majors are not required to complete CHEM 1A, PHYS 4A & 4B. Complete one course in the Natural Science list.

- GPA 3.5

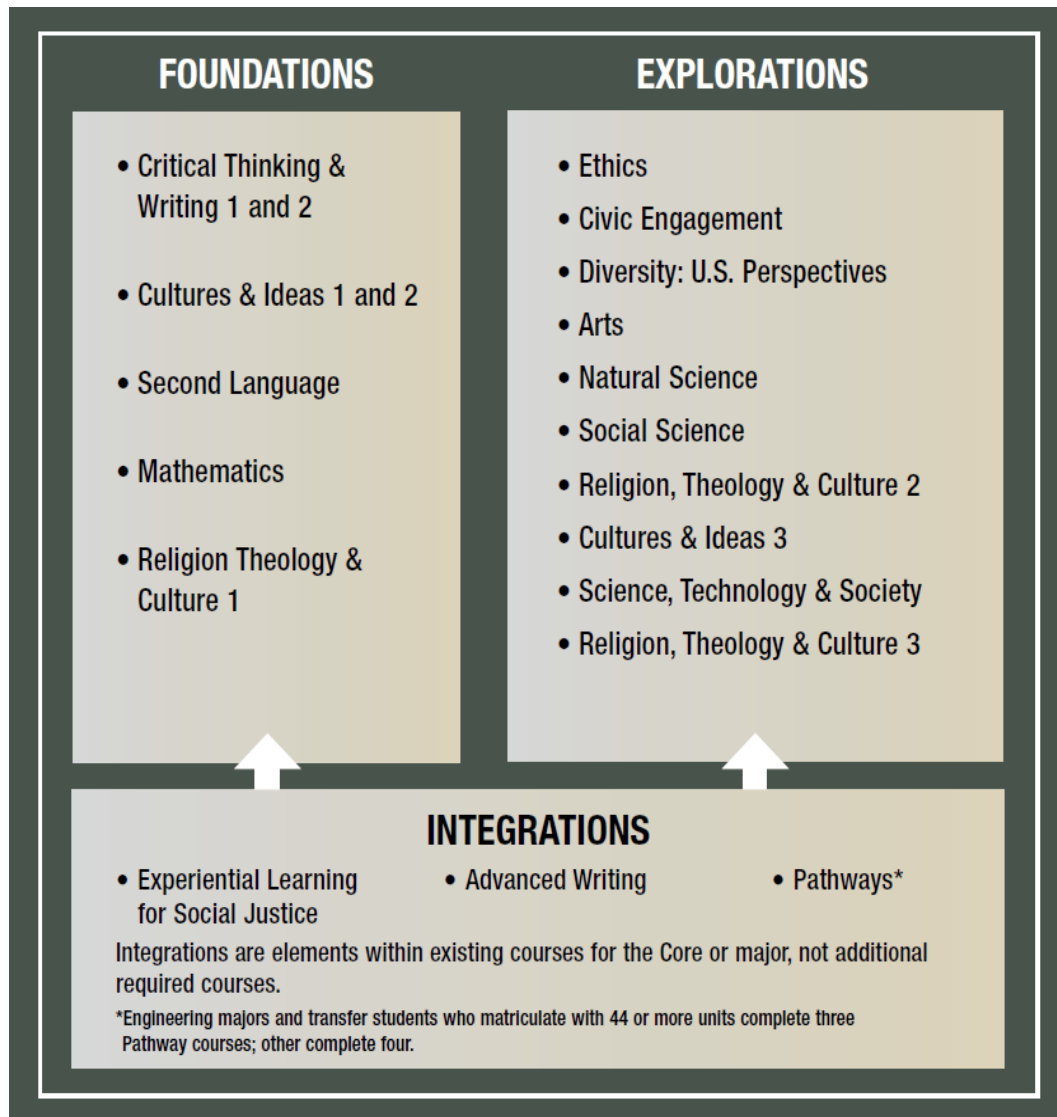
For additional SCU Transfer Admissions information:

<http://www.scu.edu/ugrad/transfer/>

The following information is provided to help transfer students understand and complete additional Santa Clara University Core Curriculum (General Education) and some major requirements.

STRUCTURE OF SANTA CLARA UNIVERSITY GENERAL CORE

Below is a visual representation of Santa Clara University Core Curriculum Requirements. Some Core requirements must be met at SCU: Civic Engagement, Religion, Theology & Culture 2, Science, Technology & Society, Religion, Theology & Culture 3, Experiential Learning for Social Justice, Advanced Writing, and Pathways. Moreover, no courses listed in this guide can fulfill more than one Core requirement.



To learn more about Santa Clara University's Core Curriculum learning goals and objectives, [click here](#).

Note: Current high school students applying as freshmen may not transfer courses to fulfill Core Critical Thinking & Writing 1 and 2 or Cultures & Ideas 1 and 2 in addition to the Core requirements listed above that must be met at SCU.

MAXIMUM NUMBER OF TRANSFER UNITS ACCEPTED:

- Santa Clara University is on a quarter system
 - 1 semester unit is equivalent to 1.5 quarter units
- It is recommended to transfer with 30 or more semester units (44 or more quarter units) of transfer credit (not including AP/IB test credit).
- Students are allowed to transfer in a maximum of one-half of the total quarter units required to graduate in their specific program. The maximum number includes credit transferred from another institution and Advanced Placement and International Baccalaureate test credits.

Academic Division	Minimum number of units required for graduation	Maximum transferrable quarter units	Maximum transferrable Semester Unit equivalency
College of Arts and Sciences	175	87.5	58.33
Leavey School of Business	175	87.5	58.33
School of Engineering:			
<i>Bioengineering</i>	191	95.5	63.66
<i>Civil Engineering</i>	195	97.5	65
<i>Computer Science & Engineering and General Engineering</i>	189	94.5	63
<i>Electrical Engineering</i>	190	95	63.33
<i>Mechanical Engineering</i>	192	96	96
<i>Web Design and Engineering</i>	175	87.5	58.33

TRANSFER CREDIT ACCEPTED:

SCU does not give transfer credit for P/NP, CR, or courses with a grade of C- or lower. Grades are not transferable to SCU, only units. However, awarding of degrees with Latin honors is based on all graded undergraduate courses attempted at SCU and courses taken elsewhere that are used towards the fulfillment of a student's degree. Honors will not be awarded above those merited by the student's record at SCU.

The following courses are not transferrable: most first-year seminars, internships, professional development courses, independent study courses, workshops, most physical education courses, most criminal/administration of justice courses, remedial English and remedial mathematics courses.

Santa Clara University only accepts University of California transferable courses. In addition, SCU does not allow the following Mission College UC transferable courses to transfer for credit: Some Counseling; Health Education, and Wellness and Human Performance courses. To view all Mission College's UC transferable courses, visit www.assist.org. UC transferable courses not listed in this guide and not listed above as excluded will be accepted as elective units. Transfer credit evaluations for individual students are completed after admission to SCU. However, the following information will help students evaluate their own course work.

FOUNDATIONS CORE REQUIREMENTS

Critical Thinking & Writing 1 and 2 Core Requirement:

To fulfill the Critical Thinking & Writing 1 and 2 Santa Clara University Core requirements, a student must complete one course from the Critical Thinking & Writing 1 course list, and one course from the Critical Thinking & Writing 2 course list below. If both requirements are not satisfied prior to enrollment at SCU, students who have completed fewer than 30 semester units (or 44 quarter units) of transfer credit will be required to take the 2 quarter course sequence at SCU. Students who transfer with 30 or more semester units (or 44 or more quarter units) of transfer credit and have fulfilled the CTW 1 but not the CTW 2 requirement will be required to complete an additional Advanced Writing course at SCU to satisfy the CTW 2 requirement.

CRITICAL THINKING & WRITING 1: Complete one course from list below.

Admission recommendation: Complete Critical Thinking and Writing 1 Core requirement.

Exceptions for taking a course listed below to satisfy CTW 1: Students placed into the 2nd college level English (any course listed under CTW 2), or who scored a 4 or 5 on the AP English Language exam, may substitute the course placement or the test credit for CTW 1. Students are responsible for submitting the appropriate AP CollegeBoard Report at the time of acceptance to receive such credit.

Mission College Course
ENGL 1A: English Composition

CRITICAL THINKING & WRITING 2: Complete one course from list below.

Admission recommendation: Complete Critical Thinking and Writing 2 Core requirement.

Mission College Course
ENGL 1B: English Composition
ENGL 1C: Critical Thinking and Writing

CULTURES & IDEAS 1 and 2 Core Requirements:

To fulfill the Santa Clara University Cultures & Ideas 1 and 2 Core Curriculum requirements, a student must complete one course from the Cultures and Ideas 1 list, and one course from the Cultures and Ideas 2 course list. If both requirements are not satisfied prior to enrollment at SCU, students who have completed fewer than 30 semester units (or fewer than 44 quarter units) of transfer credit will be required to take the 2 quarter course sequence at SCU. Students who transfer with 30 or more semester units (or 44 or more quarter units) and fulfilled the Cultures & Ideas 1 but not the Cultures & Ideas 2 requirement, will be required to take one course instead of the 2-course sequence at SCU. *Although it is not listed as an admission recommendation, it is advised to fulfill the Cultures and Ideas 1 and 2 course sequence prior to enrollment at SCU.*

CULTURES & IDEAS 1: Complete one course from list below.

Transfer courses cannot fulfill more than one Santa Clara University Core requirement. If you already took a course listed below to satisfy a different requirement, you will want to choose a different course to complete.

Mission College Course
ART 1A: Survey of Western Art I
ART 1B: Survey of Western Art II
ART 1D: Art of the 20 th Century
ART 10: Art of the United States
BUS 28A: Business Law I
BUS 28B: Business Law II
BUS 51: Introduction to American Business
HIST 4A: History of Western Civilization
HIST 4B: History of Western Civilization
HIST 17A: History of the United States to 1877
HIST 17B: History of the United States Since 1877
HIST 20: History and Geography of California
HUMAN 1A: Human Values in and from the Arts
HUMAN 1B: Human Values in and from the Arts
MUSIC 1: Music History and Literature
MUSIC 2: Music History and Literature
POLIT 1: American Government
SOC 1: Intro to Sociology

CULTURES & IDEAS 2: Complete one course from list below.

Transfer courses cannot fulfill more than one Santa Clara Core requirement. If you already took a course listed below to satisfy a different requirement, you will want to choose a different course to complete.

Mission College Course
ANTHR 3: Intro to Cultural Anthropology
ANTHR 51: Culture and Food- A Multicultural Food Survey and Sampling
ART 1C: Survey of Asian, African, Native American and Oceanic Art
ART 7: Survey of Asian Art
ECON 6: The Global Economy (same as GLOBL 6, SOCSC 6)
ENGL 6B: World Literature
GEOG 1A: State of the World (same as GLOBL 1A, SOCSC 1A)
GEOG 2: Intro to Cultural Geography
GEOG 4: The Developing World (Same as GLOBL 4, SOCSC 4)
GLOBL 1: Global Perspectives
GLOBL 1A: State of the World (same as GEOG 1A, SOCSC 1A)
GLOBL 2: Global Issues (same as SOCSC 2)
GLOBL 4: The Developing World (same as GEOG 4, SOCSC 4)
GLOBL 6: The Global Economy (same as ECON 6, SOCSC 6)
HIST 31: History of East Asia
HUMAN 7: International Films (same as POLIT 7)
HUMAN 20: Asian Roots and Culture
HUMAN 22: Intro to Islam
MUSIC 17: Musics of the World
POLIT 2: Comparative Government
POLIT 4: International Relations
POLIT 7: International Film (same as HUMAN 7)
SOCSC 1A: State of the World (same as GEOG 1A, GLOBL 1A)
SOCSC 2: Global Issues
SOCSC 4: The Developing World (same as GEOG 4, GLOBL 4)
SOCSC 6: The Global Economy (same as ECON 6, GLOBL 6)
SOC 46: Advanced Human Sexuality- Current Issues

SECOND LANGUAGE

Note: Students accepted in the School of Engineering are not required to fulfill the second language requirement. However, if a student is admitted in the School of Engineering and decides to change schools after enrollment, the student will be required to fulfill the second language requirement at SCU.

MATHEMATICS:

Admission recommendation: Complete MATH 3A and MATH 3B

To fulfill the admissions mathematics requirement, complete MATH 3A and 3B listed below. A score of 4 or 5 on the Advanced Placement Calculus BC exams will satisfy the mathematics Admission recommendations. Engineering majors at SCU require the completion of more than one math course (see table at the end of this document for additional courses to complete per major).

Mission College Course	SCU Course
MATH 3A: Analytic Geometry and Calculus I	MATH 11
MATH 3B: Analytic Geometry and Calculus II	MATH 13 (If Math 3A & 3B completed, equates to SCU's MATH 11, 12 & 13)
MATH 4A: Intermediate Calculus	MATH 14
MATH 4B: Differential Equations	MATH 22
MATH 4C: Linear Algebra	MATH 53
MATH 19: Discrete Mathematics	MATH 51

Note: SCU does not accept remedial mathematics courses. Although a pre-Calculus course is transferrable, it will not fulfill any general core, major or minor requirements.

RELIGION, THEOLOGY & CULTURE 1: Only needed if transferring with less than 30 semester units of transfer credit. Students transferring with more than 30 semester units of transfer credit will be exempt from this requirement.

Transfer courses cannot fulfill more than one Santa Clara Core requirement. If you already took a course listed below to satisfy a different requirement, you will want to choose a different course to complete.

Mission College Course
ANTHR 55: Magic, Witchcraft and Religion

EXPLORATIONS CORE REQUIREMENTS

ETHICS: Complete one course from the list below.

Note: Students accepted in the Leavey School of Business fulfill the Ethics requirement at SCU. Refer to Leavey School of Business Transfer Guide for specific Core and School requirements.

Mission College Course
PHIL 3: Introduction to Ethics

CIVIC ENGAGEMENT: Must be completed at Santa Clara University.

DIVERSITY: US Perspectives: Complete one course from list below.

Transfer courses cannot fulfill more than one Santa Clara Core requirement. If you already took a course listed below to satisfy a different requirement, you will want to choose a different course to complete.

Mission College Course
ART 1C: Survey of Asian, African, Native American, and Oceanic Art
COMM 25: Mass Communication and Society
ENGL 12: African American Literature
ENGL 14: Native American Literature
ENGL 18: Asian American Literature
HUMAN 16A: Hispanics – Roots and Culture
HUMAN 18: African-American Culture and Humanities
POLIT 6: Politics of Race, Class and Gender
SOC 21: Minorities in the United States
SOC 38: American Culture through Film

ARTS

School of Engineering students will automatically fulfill the Arts by taking required courses within their major at SCU. However, if a student is admitted in the School of Engineering and decides to change schools after enrollment, the student will be required to fulfill the ARTS requirement by taking a course (s) at SCU. Refer to the College of Arts & Sciences or Leavey School of Business transfer guides for a list of courses that could satisfy the Arts core requirement.

NATURAL SCIENCE (WITH A LAB) Core Requirement: *Complete one course from list below.*

Admission recommendation: *Complete CHEM 1A; PHYS 4A & 4B. It is recommended to complete the Physics series prior to enrollment at SCU.*

(Note: Web Design & Engineering major completes one course to satisfy Natural Science core requirement. It is recommended to complete CHEM 1A)

Engineering majors at SCU require the completion of more than one science course (see table at the end of this document for additional courses to complete per major).

To satisfy the Core Natural Science requirement, the course must have a lab component.

Mission College Course	SCU Course Equivalency
ANTHR 1/1L: Physical Anthro/ Lab	TRCR 18
ASTRO 1/2: Astronomy/ Lab	TRCR 18
ASTRO 3: Astronomy with Laboratory	TRCR 18
BIOSC 1A: General Biology- Cells	TRCR 18
BIOSC 1B: General Biology- Organisms	TRCR 18
BIOSC 4: Microbiology	TRCR 18
BIOSC 10: Intro to Biology	TRCR 18
BIOSC 11: Human Biology	TRCR 18
BIOSC 16: Marine Biology	TRCR 18
BIOSC 41: Principles of Animal Biology	BIOL 22 and BIOL 23
BIOSC 42: Principles of Plant Biology	TRCR 18
BIOSC 43: Prin of Cell & Molecular Biol	BIOL 24 and BIOL 25
BIOSC 47: Human Anatomy	TRCR 18
BIOSC 48: Human Physiology	TRCR 18
CHEM 1A: General Chemistry I	CHEM 11
CHEM 1B: General Chemistry II	CHEM 13 (If CHEM 1A & 1B completed, equates to CHEM 11,12 & 13)
CHEM 2/2L: Intro Chemistry/Lab	TRCR 18: Core Natural Sci
CHEM 12A: Organic Chemistry I	CHEM 31
CHEM 12B: Organic Chemistry II	CHEM 33 (If CHEM 12A & 12B completed, equates to CHEM 31, 32 & 33)
CHEM 30A: Fundamentals of Chemistry	CHEM 11
CHEM 30B: Fundamentals of Chemistry	CHEM 13 (If CHEM 30A & 30B completed, equates to CHEM 11, 12 & 13)
PHYS 2A: General Physics	PHYS 11
PHYS 2B: General Physics	PHYS 13 (If PHYS 2A & 2B completed, equates to PHYS 11, 12 & 13)
PHYS 4A: Engr Physics- Mechanics	PHYS 31

PHYS 4B: Engr Physics- Elect & Magnet		PHYS 33 (If PHYS 4A & 4B completed, equates to PHYS 31, 32 & 33)
PHYS 4C: Engr Physics- Light & Heat		PHYS 32
PHYS 10: Intro to Physics		TRCR 18: Core Natural Sci

SOCIAL SCIENCE: Complete one course from list below.

Note: Students accepted in the Leavey School of Business take ECON 1A or ECON 1B to satisfy the Social Science requirement. Refer to Leavey School of Business Transfer Guide for specific core and school requirements.

Transfer courses cannot fulfill more than one Santa Clara Core requirement. If you already took a course listed below to satisfy a different requirement, you will want to choose a different course to complete.

Mission College Course
ANTHR 3: Intro to Cultural Anthropology
ECON 1A: Principles of Macroeconomics
ECON 1B: Principles of Microeconomics
GLOBL 1: Global Perspectives
GLOBL 3: Intro to Peace
PHIL 5: Intro to Social and Political Philosophy (same as POLIT 3)
POLIT 1: American Government
POLIT 2: Comparative Government
POLIT 3: Intro to Social and Political Philosophy
POLIT 4: International Relations
PSYCH 1: General Psychology
PSYCH 10: Social Psychology
SOC 1: Intro to Sociology
SOC 2: Social Problems
SOC 21: Minorities in the United States
SOC 24: Social Aspects of Aging
SOC 38: American Culture through Film
SOC 41: Family Issues
SOC 43: Sociology of Religion
SOC 46: Human Sexuality- Global Perspectives
SOC 47: Sociology of Criminology

RELIGION, THEOLOGY & CULTURE 2: Must be completed at Santa Clara University.

CULTURES & IDEAS 3: Complete one course from the list below.

Transfer courses cannot fulfill more than one Santa Clara Core requirement. If you already took a course listed below to satisfy a different requirement, you will want to choose a different course to complete.

Note: Students accepted in the Leavey School of Business fulfill the Cultures and Ideas 3 requirement at SCU. Refer to Leavey School of Business Transfer Guide for specific core and school requirements.

Mission College Course
ANTHR 3: Intro to Cultural Anthropology
ANTHR 51: Culture and Food- A Multicultural Food Survey and Sampling
ART 1C: Survey of Asian, African, Native American and Oceanic Art
ART 7: Survey of Asian Art
ECON 6: The Global Economy (same as GLOBL 6, SOCSC 6)
ENGL 6B: World Literature
GEOG 1A: State of the World (same as GLOBL 1A, SOCSC 1A)
GEOG 2: Intro to Cultural Geography
GEOG 4: The Developing World (Same as GLOBL 4, SOCSC 4)
GLOBL 1: Global Perspectives
GLOBL 1A: State of the World (same as GEOG 1A, SOCSC 1A)
GLOBL 2: Global Issues (same as SOCSC 2)
GLOBL 4: The Developing World (same as GEOG 4, SOCSC 4)
GLOBL 6: The Global Economy (same as ECON 6, SOCSC 6)
HIST 31: History of East Asia
HUMAN 7: International Films (same as POLIT 7)
HUMAN 20: Asian Roots and Culture
HUMAN 22: Intro to Islam
MUSIC 17: Musics of the World
POLIT 2: Comparative Government
POLIT 4: International Relations
POLIT 7: International Film (same as HUMAN 7)
SOCSC 1A: State of the World (same as GEOG 1A, GLOBL 1A)
SOCSC 2: Global Issues
SOCSC 4: The Developing World (same as GEOG 4, GLOBL 4)
SOCSC 6: The Global Economy (same as ECON 6, GLOBL 6)
SOC 46: Advanced Human Sexuality- Current Issues

SCIENCE, TECHNOLOGY & SOCIETY: Must be completed at Santa Clara University.

RELIGION, THEOLOGY & CULTURE 3: Must be completed at Santa Clara University.

INTEGRATIONS CORE REQUIREMENTS

EXPERIENTIAL LEARNING FOR SOCIAL JUSTICE: Must be completed at Santa Clara University.

ADVANCED WRITING: Must be completed at Santa Clara University

PATHWAYS: Must be completed at Santa Clara University.

Transfer students who matriculate with fewer than 30 semester units (or 44 quarter units) of transfer credit must take 4 courses to fulfill the pathways requirement. However, students transferring in with more than 30 semester units (or more than 44 quarter units) will complete 3 courses to fulfill the Core Pathways requirement.

ADDITIONAL SCHOOL OF ENGINEERING REQUIREMENTS PER MAJOR

The following courses allow students to complete additional School of Engineering requirements.

BIOENGINEERING MAJOR REQUIREMENTS

Mission College Course	SCU course equivalency
Natural Science:	
<i>No approved course equivalency at time of publication</i>	BIOL 21
BIOSC 43: Prin of Cell & Molecular Biol	BIOL 24/25
CHEM 1A: General Chemistry I	CHEM 11
CHEM 1B: General Chemistry II	CHEM 13 (If CHEM 1A & 1B completed, equates to SCU's CHEM 11,12, 13 sequence)
CHEM 12A: Organic Chemistry I	CHEM 31
CHEM 12B: Organic Chemistry II	CHEM 33 (If CHEM 12A & 12B completed, equates to SCU's CHEM 31, 32, 33 sequence)
PHYS 4A: Engineering Physics- Mechanics	PHYS 31
PHYS 4B: Engineering Physics- Electricity and Magnetism	PHYS 33 (If PHYS 4A & 4B completed, equates to SCU PHYS 31,32,33 sequence)
Engineering:	
ENGR 10: Introduction to Engineering	ENGR 1
ENGR 24: Introduction to Circuit Analysis	ELEN 50/50L
ENGR 25: Engineering Graphics and Design	MECH 10

ENGR 30: Intro to Computing for Engineers	COEN 44/44L
Mathematics:	
MATH 3A: Calculus & Analytical Geometry I	MATH 11
MATH 3B: Calculus & Analytical Geometry II	MATH 13 (If Math 3A & 3B completed, equates to SCU's MATH 11, 12, 13)
MATH 4A: Intermediate Calculus	Math 14
MATH 4B: Differential Equations	Math 22

CIVIL ENGINEERING MAJOR REQUIREMENTS

Mission College Course	SCU course equivalency
Natural Science:	
CHEM 1A: General Chemistry I	CHEM 11
PHYS 4A: Engineering Physics- Mechanics	PHYS 31
PHYS 4B: Engineering Physics- Electricity and Magnetism	PHYS 33 (If PHYS 4A & 4B completed, equates to SCU PHYS 31,32,33 sequence)
Engineering:	
ENGR 10: Introduction to Engineering	ENGR 1
ENGR 23: Mechanics - Statics	CENG 41
ENGR 24/24L: Introduction to Circuit Analysis	ELEN 50/50L
ENGR 25: Engineering Graphics and Design	CENG 7/7L
Mathematics:	
MATH 3A: Calculus & Analytical Geometry I	MATH 11
MATH 3B: Calculus & Analytical Geometry II	MATH 13 (If Math 3A & 3B completed, equates to SCU's MATH 11, 12, 13)
MATH 4A: Intermediate Calculus	MATH 14
MATH 4B: Differential Equations	MATH 22

COMPUTER SCIENCE & ENGINEERING

Mission College Course	SCU course equivalency
Natural Science:	
CHEM 1A: General Chemistry I	CHEM 11
PHYS 4A: Engineering Physics- Mechanics	PHYS 31
PHYS 4B: Engineering Physics- Electricity and Magnetism	PHYS 33 (If PHYS 4A & 4B completed, equates to SCU PHYS 31,32,33 sequence)
Engineering:	
ENGR 10: Introduction to Engineering	ENGR 1
ENGR 24/24L: Introduction to Circuit Analysis	ELEN 50/50L
CIS 43: Software Development w/ Java Program	COEN 11/11L
CIS 44: Intro to Data Structures Using Java	COEN 12/12L
ENGR 30: Intro to Computing for Engineers	COEN 44/44L
Mathematics:	
MATH 3A: Calculus & Analytical Geometry I	MATH 11
MATH 3B: Calculus & Analytical Geometry II	MATH 13 (If Math 3A & 3B completed, equates to SCU's MATH 11, 12, 13)

MATH 4A: Intermediate Calculus	MATH 14
MATH 4B: Differential Equations	MATH 22
MATH 4C: Linear Algebra	MATH 53
MATH 19: Discrete Mathematics	COEN 19

ELECTRICAL ENGINEERING

Mission College Course	SCU course equivalency
Natural Science:	
CHEM 1A: General Chemistry I	CHEM 11
CHEM 1B: General Chemistry II	CHEM 13 (If CHEM 1A & 1B completed, equates to SCU's CHEM 11,12, 13 sequence)
PHYS 4A: Engineering Physics- Mechanics	PHYS 31
PHYS 4B: Engineering Physics- Electricity and Magnetism	PHYS 33 (If PHYS 4A & 4B completed, equates to SCU PHYS 31,32,33 sequence)
PHYS 4D: Atomic Physics	PHYS 34
Engineering:	
ENGR 10: Introduction to Engineering	ENGR 1
ENGR 24: Introduction to Circuit Analysis	ELEN 50/50L
ENGR 23: Mechanics - Statics	CENG 41
ENGR 30: Introduction to Computing for Engr	COEN 44/44L
Mathematics:	
MATH 3A: Calculus & Analytical Geometry I	MATH 11
MATH 3B: Calculus & Analytical Geometry II	MATH 13 (If Math 3A & 3B completed, equates to SCU's MATH 11, 12, 13)
MATH 4A: Intermediate Calculus	MATH 14
MATH 4B: Differential Equations	MATH 22

GENERAL ENGINEERING

Mission College Course	SCU course equivalency
Natural Science:	
CHEM 1A: General Chemistry I	CHEM 11
PHYS 4A: Engineering Physics- Mechanics	PHYS 31
PHYS 4B: Engineering Physics- Electricity and Magnetism	PHYS 33 (If PHYS 4A & 4B completed, equates to SCU PHYS 31,32,33 sequence)
Engineering:	
ENGR 10: Introduction to Engineering	ENGR 1
ENGR 24: Introduction to Circuit Analysis	ELEN 50/50L
ENGR 25: Engineering Graphics and Design	MECH 10/10L
ENGR 23: Mechanics - Statics	CENG 41
ENGR 26: Engineering Materials	MECH 15/15L
ENGR 030: Intro to Computing for Engineers	COEN 44/44L
Mathematics:	
MATH 3A: Calculus and Analytical Geometry	MATH 11
MATH 3B: Calculus and Analytical Geometry	MATH 13 (If Math 3A & 3B completed,

	equates to SCU's MATH 11, 12, 13)
MATH 4A: Intermediate Calculus	MATH 14
MATH 4B: Differential Equations	MATH 22

MECHANICAL ENGINEERING

Mission College Course	SCU course equivalency
Natural Science:	
CHEM 1A: General Chemistry	CHEM 11
PHYS 4A: Engineering Physics- Mechanics	PHYS 31
PHYS 4B: Engineering Physics- Electricity and Magnetism	PHYS 33 (If PHYS 4A & 4B completed, equates to SCU PHYS 31,32,33 sequence)
Engineering:	
ENGR 10: Introduction to Engineering	ENGR 1
ENGR 24: Introduction to Circuit Analysis	ELEN 50/50L
ENGR 25: Engineering Graphics and Design	MECH 10/10L
ENGR 26: Engineering Materials	MECH 15/15L
ENGR 23: Mechanics - Statics	CENG 41
CIS 37A: Intro to C Programming	COEN 44/44L
Mathematics:	
MATH 3A: Calculus & Analytical Geometry I	MATH 11
MATH 3B: Calculus & Analytical Geometry II	MATH 13 (If Math 3A & 3B completed, equates to SCU's MATH 11, 12, 13)
MATH 4A: Intermediate Calculus	MATH 14
MATH 4B: Differential Equations	MATH 22

WEB DESIGN AND ENGINEERING

Mission College Course	SCU course equivalency
Natural Science:	
CHEM 1A: General Chemistry (<i>Recommended</i>)	CHEM 11
Engineering:	
ENGR 10: Introduction to Engineering	ENGR 1
CIS 43: Software Development w/ Java Program	COEN 11/11L
CIS 44: Intro to Data Structures Using Java	COEN 12/12L
Mathematics:	
MATH 3A: Calculus & Analytical Geometry I	MATH 11
MATH 3B: Calculus Analytical Geometry	MATH 13 (If Math 3A & 3B completed, equates to SCU's MATH 11, 12, 13)
MATH 4A: Intermediate Calculus	MATH 14

Additional notes:

- Consult the current Undergraduate Bulletin for Advanced Placement and International Baccalaureate test credit equivalencies at: <http://www.scu.edu/academics/bulletins/undergraduate/>

- Consult the Santa Clara University Undergraduate Bulletin for additional requirements in a major. The Bulletin can be found at: <http://www.scu.edu/academics/bulletins/undergraduate/>
- Once students are admitted to Santa Clara University, they must abide by the policies, regulations and other requirements outlined in the Undergraduate Bulletin for their cohort year.
- **Per SCU policy, transfer credit earned after enrollment cannot satisfy University Core, major or minor requirements.** Refer to the SCU Undergraduate Bulletin for additional transfer credit restrictions at: <http://www.scu.edu/academics/bulletins/undergraduate/>
- This guide is to be used by transfer applicants, not freshmen applicants. Admitted freshmen must complete the following Core requirements at SCU: Critical Thinking & Writing 1 and 2; Cultures & Ideas 1 and 2; Religion Theology & Culture 1 (unless transfer credit for a course was preapproved to fulfill the Core RTC 1 requirement); Civic Engagement; Religion, Theology & Culture 2 and 3 (taken in sequence order after RTC 1 is completed); Science, Technology & Society; Experiential Learning for Social Justice; Advanced Writing; and four Pathway courses.

For questions regarding transfer credit or AP/IB test credit, contact Sheli Whiting, Transfer Record Analyst at: swhiting@scu.edu.

Disclosure: The information contained in this document 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 right-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.

Santa Clara University

School of Engineering

TRANSFER CREDIT PLANNER CHECK-SHEET

*Admission recommendations

University Core Requirement Course Completed or IP (In Progress)

FOUNDATIONS

- Critical Thinking & Writing 1*
Critical Thinking & Writing 2*
Cultures & Ideas 1
Cultures & Ideas 2
Mathematics* Satisfied within major requirements
Religion Theology & Culture 1
(Students transferring with more than 30 semester units of transfer credit will be exempt from this requirement.)

EXPLORATIONS

- Ethics
Civic Engagement Must be completed at Santa Clara
Diversity
Arts Satisfied within major requirements
Natural Science W/Lab* Satisfied within major requirements
Social Science
Religion, Theology & Culture 2 Must be completed at Santa Clara
Cultures & Ideas 3
Science, Technology & Society Must be completed at Santa Clara
Religion, Theology & Culture 3 Must be completed at Santa Clara

INTEGRATIONS

- ELSJ Must be completed at Santa Clara University
Advanced Writing Must be completed at Santa Clara University
Pathways Must be completed at Santa Clara University

SCHOOL OF ENGINEERING REQUIREMENTS

(Refer to the individual major charts on page 12 of transfer guide)

Engineering School Requirement Course completed or IP (In Progress)

MATHEMATICS*

- Calculus and Analytic Geometry I*
Calculus and Analytic Geometry II*
Intermediate Calculus
Differential Equations

NATURAL SCIENCE*

- General Chemistry*
General Chemistry (2nd sem)
Engineering Phys - Mech *
Engineering Phys- Electr & Mag*
Modern Physics

ADDITIONAL ENGINEERING MAJOR Requirements

- Intro to Engineering
Intro to Circuit Analysis
Engineering Graphics
Computer Programming I
Computer Programming II

Total Semester UNITS

TOTAL SEMESTER UNITS x 1.5 = TOTAL QUARTER UNITS

Note: Refer to the chart listing the maximum number of units allowed to transfer (including AP/IB test credit) per major.