Santa Clara University

School of Engineering

For use by Transfer Applicants

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 at SCU

Religion Theology & Culture 1 (Students transferring with 30 or more semester units (or 44 or more quarter units) of transfer credit will be exempt from completing one RTC Core requirement)

EXPLORATIONS

□ Ethics

- Civic Engagement Must be completed at Santa Clara
- □ Diversity: U.S. Perspectives
- □ Arts

□ Natural Science w/Lab*

Satisfied within major requirements at SCU * Satisfied within major requirements at SCU

- □ 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 School of Engineering website for individual major requirements at: <u>https://www.scu.edu/engineering/undergraduate/degree-programs/</u>

Engineering School Requirement

Course completed or IP (In Progress)

MATHEMATICS*

- Calculus and Analytic Geometry I* _____
- Calculus and Analytic Geometry II* ______
- Calculus and Analytic Geom III/IV
- **Differential Equations**
- □ _____

NATURAL SCIENCE*

General Chemistry*	
Physics w/ Calculus *	
Physics w/ Calculus *	
□ Physics w/ Calculus *	
□	

ADDITIONAL ENGINEERING MAJOR Requirements

- <u>Bioengineering</u>
- <u>Civil Engineering</u>
- Computer Science and Engineering
- Electrical & Computer Engineering
- Electrical Engineering
- <u>General Engineering</u>
- Mechanical Engineering
- Web Design and Engineering

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 located on the SCU Undergraduate Admission webpage at: <u>http://www.scu.edu/ugrad/transfer/</u>

Santa Clara University

Undergraduate

School of Engineering

Evergreen Valley 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 and Computer Engineering, Electrical Engineering, General Engineering, Mechanical Engineering, and Web Design & Engineering

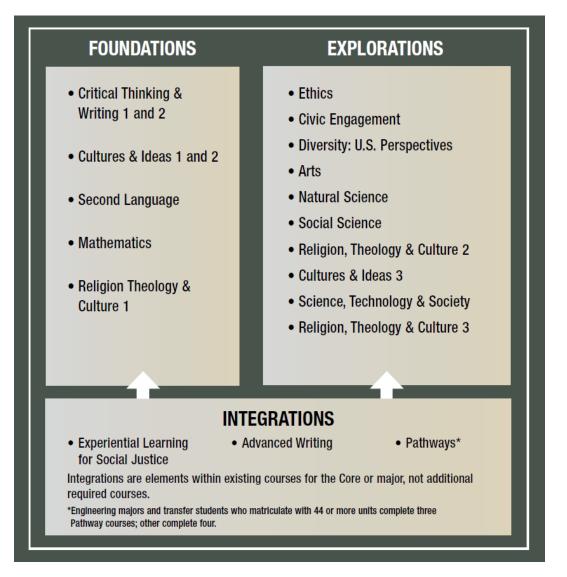
Courses strongly recommended for admission:

- Two English composition courses (*aka: Critical Thinking & Writing 1 & 2*)
- Mathematics: MATH 71 and MATH 72
- One natural science course with a lab: CHEM 1A
- Two Calculus-based Physics courses: PHYS 4A, PHYS 4B and PHYS 4C OR PHYS 7A, PHYS 7B and PHYS 7C
 - Web Design Engineering majors are not required to complete CHEM 1A (recommended), PHYS 4A, 4B & 4C OR PHYS 7A, 7B & 7C. Complete one course in the Natural Science list.
- GPA 3.5

For additional SCU Transfer Admissions information: https://www.scu.edu/admission/undergraduate/transfer-students/ The following information is provided to help transfer students understand and complete additional Santa Clara University Core Curriculum (General Education) 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 <u>First-Year students may not</u> transfer courses to fulfill Core Critical Thinking & Writing 1 and 2 or Cultures & Ideas 1 and 2, Religion Theology and Culture 1 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
 - o 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 High-Level International Baccalaureate and University of Cambridge A-Level 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
College of Arts and Sciences: <i>Engineering</i> <i>Physics</i>	193	96.5	64.33
Leavey School of Business	175	87.5	58.33
School of Engineering:			
Bioengineering	191	95.5	63.66
Civil Engineering	195	97.5	65
Computer Science & Engineering and General Engineering	189	94.5	63
Electrical Engineering and Electrical & Computer Engineering	190	95	63.33
Mechanical Engineering	192	96	64
Web Design and Engineering	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.

The following courses are not transferrable: most first-year seminars, internships, professional development courses, independent study courses, workshops, most physical education 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 Evergreen Valley College UC transferrable courses to transfer for credit: Athletics, Athletics Intercollegiate Men and Women, some Counseling, Kinesiology, and most Physical Education courses. To view all Evergreen Valley College's UC transferable courses, visit <u>www.assist.org</u>. UC transferrable courses not listed in this guide and not listed above as excluded will be accepted as elective units. After acceptance, students may petition a course that received elective credit to be evaluated, and if approved, fulfill a Core and/or major requirement. 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 (CTW) 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 course at SCU to satisfy the CTW 2 requirement.

CRITICAL THINKING & WRITING 1: Complete <u>one course</u> 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, 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 official AP CollegeBoard Report at the time of acceptance to receive such credit.

Evergreen Valley 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

Evergreen Valley College Course
ENGL 1B: English Composition
ENGL 1C: Critical Thinking/ Composition
IDIS 60: Critical Thinking
PHIL 60: Logic and Critical Thinking

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. <u>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.</u>

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.

Evergreen Valley College Course
AJ 10: Intro to Admin Justice
ART 91: Survey of Art History- Prehistoric through Gothic
ART 92: Survey of Art History- Renaissance to the Present
HIST 1: Survey of American History
HIST 3A: World History to 1500
HIST 3B: World History from 1500
HIST 10A: Development of Western Culture I
HIST 10B: Development of Western Culture II
HIST 17A: History of the United States
HIST 17B: History of the United States
HIST 40: United States Military History
HIST 45: Modern America
MUSIC 8A: Music History and Literature I
MUSIC 8B: Music History and Literature II
MUSIC 91: Music Appreciation- Western Civilization
POLSC 1: Politics and Government in America

CULTURES & IDEAS 2: Complete <u>one course</u> 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.

Evergreen Valley College Course
AJ 114: Terrorism
ART 93: History of Modern Art
ART 96: History of Asian Art
ANTH 63: Intro to Social and Cultural Anthropology
ANTH 90: Intro to Mesoamerica
ECON 12: Intro to Global Economics and
ENGL 28: Intro to World Mythology
ENGL 52: Children's/ Adolescent Literature
HIST 3A: World History to 1500
HIST 3B: World History from 1500
HIST 12: East Asian History
HIST 15: South Asian History
HUMNT 2: Intro to World Literature
PHIL 70: Comparative Religions
THEAT 20: Introduction to Theater Arts

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 71 and MATH 72

To fulfill the admission mathematics requirement, complete both MATH 71 and 72 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).

Evergreen Valley College Course	SCU Course Equivalency
MATH 71: Calculus I with Analytic Geometry	MATH 11
MATH 72: Calculus II with Analytic Geometry	MATH 12
MATH 73: Multivariable Calculus	MATH 13&14
MATH 78: Differential Equations	MATH 22 or AMTH 106
MATH 79: Linear Algebra	MATH 53
COMSC 072: Discrete Mathematics OR COMSC	MATH 51 or COEN 19
080: Discrete Structures OR MATH 70: Discrete	
Mathematics	

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: <u>Only needed if transferring with</u> <u>less than 30 semester units of transfer credit. Students transferring with more than 30</u> <u>semester units of transfer credit will be exempt from this requirement.</u>

Students transferring with less than 30 semester units of transfer credit may complete <u>one course</u> from the list below to satisfy the RTC 1 Core 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.

Evergreen Valley College Course No approved Evergreen Valley College course equivalency at time of publication

Note: The transferring with more than 30 semester units (or more than 44 quarter units) of transfer credit for the RTC 1 exemption rule does not apply to freshmen applicants.

EXPLORATIONS Core requirements

ETHICS: Complete one course from the list below.

Evergreen Valley College Course	
PHIL 65: Introduction to Ethics	

CIVIC ENGAGEMENT: Must be completed at Santa Clara University.

DIVERSITY: US Perspectives: Complete <u>one course</u> 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.

Evergreen Valley College Course	
AJ 19: Law Enforcement in Multicultural Communities	
AJ 123: Women and the Criminal Justice System	
ART 32: Photoshop I	
COMS 35: Intercultural Communication	

ENGL 62: Asian/Asian American Lit
ENGL 80: Mexican American Lit
ENGL 82A: African American Lit
ETH 10: Intro to Ethnic Studies
ETH 11: Ethnic Film: Reel Studies
ETH 20: African American Culture
ETH 30: Chicana/ o Culture
ETH 35: Sociology of the Chicana/o Experience
ETH 40: Vietnamese American Culture and Experience
ETH 42: Asian Pacific American Culture and Experience
HIST 21: African-American History
HIST 22: Mexican-American History
SOC 11: Social Problems
THEAT 25A: Theatres of Diversity: Chicano/Latino Theatre
WOMS 10: Introduction to Women's and Gender Studies

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 and PHYS4A, 4B & 4C

(Note: Web Design & Engineering major completes one course to satisfy Natural Science core requirement. It is recommended to complete CHEM1A.)

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

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).

When an Evergreen Valley College course does not have a direct SCU course equivalent, but fulfills the Natural Science Core requirement, a transfer credit (TRCR) code of TRCR 18 is assigned.

Evergreen Valley College Course	SCU Course equivalency
ANTH 62/62L: Introduction to Physical	ANTH 1
Anthropology w/Lab	

ASTRO 10/10L: Intro Astronomy w/Lab	TRCR 18
BIOL 4A: General Principles & Cell Biology	TRCR 18
w/Lab	
BIOL 4B: Organismal Biology & Biodiversity	TRCR 18
w/Lab	
BIOL 20: Human Biology w/Lab	TRCR 18
BIOL 21: General Biology w/Lab	TRCR 18
BIOL 64: Marine Biology w/Lab	TRCR 18
BIOL 72: Human Physiology w/Lab	TRCR 18
BIOL 74: General Microbiology w/Lab	TRCR 18
CHEM 1A: General Chemistry w/Lab	CHEM 11
CHEM 1B: General Chemistry w/Lab	CHEM 12&50
CHEM 12A: Organic Chemistry w/Lab	CHEM 31
CHEM 12B: Organic Chemistry w/Lab	CHEM 33 (If CHEM 12A & 12B
	completed, equates to SCU's CHEM 31,
	32, & 33)
CHEM 15: Fundamentals of Chemistry w/Lab	TRCR 18
CHEM 30A: Intro to Chemistry w/Lab	CHEM 11
CHEM 30B: Intro to Chemistry w/Lab	CHEM 12&50
ENVIR 10: Environmental Science w/Lab	ENVS 21
PHYSC 12: Earth Science w/Lab	TRCR 18
PHYS 1: Intro Physics w/Lab	TRCR 18
PHYS 2A: Algebra/Trigonometry-Based Physics I	PHYS 11
w/Lab	
PHYS 2B: Algebra/Trigonometry-Based Physics II	PHYS 13 (If PHYS 2A & 2B completed,
w/Lab	equates to PHYS 11, 12 &13)
PHYS 4A: General Physics w/Lab	PHYS 31
PHYS 4B: General Physics w/Lab	PHYS 33
PHYS 4C: General Physics w/Lab	PHYS 32 (when PHYS 4A is taken)
	(If PHYS 4A, 4B & 4C completed, equates
	to SCU's PHYS 31, 32 & 33)
PHYS 7A: Calculus-Based General Physics for	PHYS 31
Scientists and Engineers - I	
PHYS 7B: Calculus-Based General Physics for	PHYS 33
Scientists and Engineers - II	
PHYS 7C: Calculus-Based General Physics for	PHYS 32 (when PHYS 7A is taken)
Scientists and Engineers - III	(If PHYS 7A, 7B & 7C completed, equates
	to SCU's PHYS 31, 32 & 33)

SOCIAL SCIENCE: 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.

Evergreen Valley College Course	
ANTH 63: Intro to Social and Cultural Anthropology	
ECON 10A: Principles of Macroeconomic Theory	
ECON 10B: Intro to Microeconomic Theory	
PSYCH 1: General Psychology	
PSYCH 96: Marriage, Family and Intimate Relationships	
SOC 10: Intro to Sociology	

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

CULTURES & IDEAS 3: Complete <u>one course</u> 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.

Evergreen Valley College Course
AJ 114: Terrorism
ART 93: History of Modern Art
ART 96: History of Asian Art
ANTH 63: Intro to Social and Cultural Anthropology
ANTH 90: Intro to Mesoamerica
ECON 12: Intro to Global Economics and
ENGL 28: Intro to World Mythology
ENGL 52: Children's/ Adolescent Literature
HIST 3A: World History to 1500
HIST 3B: World History from 1500
HIST 12: East Asian History
HIST 15: South Asian History
HUMNT 2: Intro to World Literature
PHIL 70: Comparative Religions
THEAT 20: Introduction to Theater Arts

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

ADDITIONAL SCHOOL OF ENGINEERING REQUIREMENTS PER MAJOR

The following	courses allow stud	lents to	complet	e additio	nal Scho	ol of En	gineering	, requiren	nents.
SCU COURSE	EVC COURSE	BIOE	CENG	COEN	ECEN	ELEN	ENGR	MECH	WDE
MATH 11	MATH 71	Х	Х	Х	Х	Х	Х	Х	Х
MATH 12	MATH 72	Х	х	Х	Х	Х	Х	Х	Х
MATH 13	MATH 73	Х	Х	Х	Х	Х	Х	Х	Х
MATH 14	MATH 73	Х	Х	Х	Х	Х	Х	Х	Х
MATH 22 or AMTH 106	MATH 78	x	х	х	х	х	х	х	
MATH 51 or COEN 19	COMSC 72 or 80 or MATH 70			х	х				
MATH 53	MATH 79			Х	Х				
PHYS 31	PHYS 4A/7A	Х	Х	Х	Х	Х	Х	Х	
PHYS 31/32	PHYS 4A & 4C OR 7A & 7C	х	х	Х	х	х	х	х	
PHYS 33	PHYS 4B/7B	Х	х	Х	Х	Х	Х	Х	
PHYS 34	-					Х			
CHEM 11	CHEM 1A	Х	Х	Х	Х	Х	Х	Х	
ELEN/COEN 21/21L	-			х	х	х	х		
ELEN 50/50L	ENGR 71	Х		Х	Х	Х	Х	Х	
CENG 41	ENGR 69		Х				Х	Х	
COEN 10/10L	COMSC 20 or ENGR 50			Х	х	х	х		х
COEN 11/11L	COMSC 75 or COMSC 79C			Х	Х	х			х
COEN 12/12L	COMSC 76			х	Х	Х			Х
Abbreviations	and Links:								
<u>BIOE = Bioengi</u>	neering								
CENG = Civil, Environmental, and Sustainable Engineering									
COEN = Computer Science and Engineering									
ECEN = Electrical and Computer Engineering									
ELEN = Electrical Engineering									
ENGR = General Engineering									
MECH = Mecha	anical Engineering								
WDE = Web De	esign and Engineerir	ng							

A "-" indicates that an equivalent course has not been approved at time of publication.

Evergreen Valley College Course	SCU course equivalency
Natural Science:	
CHEM 1A: General Chemistry w/Lab	CHEM 11
CHEM 1B: General Chemistry w/Lab	CHEM 12&50
CHEM 12A: Organic Chemistry w/Lab	CHEM 31
CHEM 12B: Organic Chemistry w/Lab	CHEM 33 (If CHEM 12A & 12B completed,
	equates to SCU's CHEM 31, 32, & 33)
PHYS 4A: General Physics w/Lab	PHYS 31
PHYS 4B: General Physics w/Lab	PHYS 33
PHYS 4C: General Physics w/Lab	PHYS 32 (when PHYS 4A is taken)
	(If PHYS 4A, 4B & 4C completed, equates to
	SCU's PHYS 31, 32 & 33)
PHYS 7A: Calculus-Based General Physics for	PHYS 31
Scientists and Engineers - I	
PHYS 7B: Calculus-Based General Physics for	PHYS 33
Scientists and Engineers - II	
PHYS 7C: Calculus-Based General Physics for	PHYS 32 (when PHYS 7A is taken)
Scientists and Engineers - III	(If PHYS 7A, 7B & 7C completed, equates to
	SCU's PHYS 31, 32 & 33)
Engineering:	
ENGR 71: Introduction to Circuit Analysis	ELEN 50/50L
ENGR 18: Engineering Design and Graphics	MECH 10/10L (*Medical Device track)
Mathematics:	
MATH 71: Calculus I with Analytic Geometry	MATH 11
MATH 72: Calculus II with Analytic Geometry	MATH 12
MATH 73: Multivariable Calculus	MATH 13&14
MATH 78: Differential Equations	MATH 22 or AMTH 106

BIOENGINEERING MAJOR REQUIREMENTS

CIVIL ENGINEERING MAJOR REQUIREMENTS

Evergreen Valley College Course	SCU course equivalency
Natural Science:	
CHEM 1A: General Chemistry w/Lab	CHEM 11
PHYS 4A: General Physics w/Lab	PHYS 31
PHYS 4B: General Physics w/Lab	PHYS 33
PHYS 4C: General Physics w/Lab	PHYS 32 (when PHYS 4A is taken)
	(If PHYS 4A, 4B & 4C completed, equates to
	SCU's PHYS 31, 32 & 33)
PHYS 7A: Calculus-Based General Physics for	PHYS 31
Scientists and Engineers - I	
PHYS 7B: Calculus-Based General Physics for	PHYS 33
Scientists and Engineers - II	
PHYS 7C: Calculus-Based General Physics for	PHYS 32 (when PHYS 7A is taken)
Scientists and Engineers - III	(If PHYS 7A, 7B & 7C completed, equates to
	SCU's PHYS 31, 32 & 33)
No approved course equivalency at time of	CENG 20/20L
publication	
Engineering:	

ENGR 71: Introduction to Circuit Analysis	ELEN 50/50L
No approved course equivalency at time of	CENG 7/7L
publication	
ENGR 60: Surveying	CENG 10/10L
ENGR 69: Statics	CENG 41
No approved course equivalency at time of	CENG 44A/44AL
publication	
Mathematics:	
MATH 71: Calculus I with Analytic Geometry	MATH 11
MATH 72: Calculus II with Analytic Geometry	MATH 12
MATH 73: Multivariable Calculus	MATH 13&14
MATH 78: Differential Equations	MATH 22 or AMTH 106

COMPUTER SCIENCE & ENGINEERING MAJOR REQUIREMENTS

Evergreen Valley College Course	SCU course equivalency
Natural Science:	• • •
CHEM 1A: General Chemistry w/Lab	CHEM 11
PHYS 4A: General Physics w/Lab	PHYS 31
PHYS 4B: General Physics w/Lab	PHYS 33
PHYS 4C: General Physics w/Lab	PHYS 32 (when PHYS 4A is taken)
	(If PHYS 4A, 4B & 4C completed, equates to
	SCU's PHYS 31, 32 & 33)
PHYS 7A: Calculus-Based General Physics for	PHYS 31
Scientists and Engineers - I	
PHYS 7B: Calculus-Based General Physics for	PHYS 33
Scientists and Engineers - II	
PHYS 7C: Calculus-Based General Physics for	PHYS 32 (when PHYS 7A is taken)
Scientists and Engineers - III	(If PHYS 7A, 7B & 7C completed, equates to
	SCU's PHYS 31, 32 & 33)
Engineering:	
ENGR 71: Introduction to Circuit Analysis	ELEN 50/50L
COMSC 20: Introduction to Programming	COEN 10/10L
Concepts and Methodologies OR ENGR 50:	
Introduction to Computing	
COMSC 75: Computer Science I: Introduction to	COEN 11/11L
Program Structures OR COMSC 79C: Programming in	
C Evaluating	
COMSC 76: Computer Science II: Introduction	COEN 12/12L
to Data Structures	
COMSC- 77: Introduction to Computer Systems	COEN 20/20L
COMSC 72: Discrete Mathematics OR COMSC	COEN 19 or MATH 51
80: Discrete Structures OR MATH 70: Discrete	
Mathematics	
Mathematics:	
MATH 71: Calculus I with Analytic Geometry	MATH 11
MATH 72: Calculus II with Analytic Geometry	MATH 12
MATH 73: Multivariable Calculus	MATH 13&14
MATH 78: Differential Equations	MATH 22 or AMTH 106
MATH 79: Linear Algebra	MATH 53

Evergreen Valley College Course	SCU course equivalency
Natural Science:	
CHEM 1A: General Chemistry w/Lab	CHEM 11
PHYS 4A: General Physics w/Lab	PHYS 31
PHYS 4B: General Physics w/Lab	PHYS 33
PHYS 4C: General Physics w/Lab	PHYS 32 (when PHYS 4A is taken)
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PHYS 7C: Calculus-Based General Physics for	PHYS 32 (when PHYS 7A is taken)
Scientists and Engineers - III	(If PHYS 7A, 7B & 7C completed, equates to
	SCU's PHYS 31, 32 & 33)
Engineering:	
ENGR 71: Introduction to Circuit Analysis	ELEN 50/50L
COMSC 20: Introduction to Programming	COEN 10/10L
Concepts and Methodologies OR ENGR 50:	
Introduction to Computing	
COMSC 75: Computer Science I: Introduction to	COEN 11/11L
Program Structures OR COMSC 79C: Programming in	
C Evaluating	
COMSC 76: Computer Science II: Introduction	COEN 12/12L
to Data Structures	
COMSC 72: Discrete Mathematics OR COMSC	COEN 19 or MATH 51
80: Discrete Structures OR MATH 70: Discrete	
Mathematics	
Mathematics:	
MATH 71: Calculus I with Analytic Geometry	MATH 11
MATH 72: Calculus II with Analytic Geometry	MATH 12
MATH 73: Multivariable Calculus	MATH 13&14
MATH 78: Differential Equations	MATH 22 or AMTH 106
MATH 79: Linear Algebra	MATH 53

ELECTRICAL & COMPUTER ENGINEERING MAJOR REQUIREMENTS

ELECTRICAL ENGINEERING MAJOR REQUIREMENTS

Evergreen Valley College Course	SCU course equivalency
Natural Science:	
CHEM 1A: General Chemistry w/Lab	CHEM 11
PHYS 4A: General Physics w/Lab	PHYS 31
PHYS 4B: General Physics w/Lab	PHYS 33
PHYS 4C: General Physics w/Lab	PHYS 32 (when PHYS 4A is taken)
	(If PHYS 4A, 4B & 4C completed, equates to
	SCU's PHYS 31, 32 & 33)
PHYS 7A: Calculus-Based General Physics for	PHYS 31
Scientists and Engineers - I	

PHYS 7B: Calculus-Based General Physics for	PHYS 33
Scientists and Engineers - II	
PHYS 7C: Calculus-Based General Physics for	PHYS 32 (when PHYS 7A is taken)
Scientists and Engineers - III	(If PHYS 7A, 7B & 7C completed, equates to
	SCU's PHYS 31, 32 & 33)
Engineering:	
ENGR 69: Statics	CENG 41
COMSC 20: Introduction to Programming	COEN 10/10L
Concepts and Methodologies OR ENGR 50:	
Introduction to Computing	
COMSC 75: Computer Science I: Introduction to	COEN 11/11L
Program Structures OR COMSC 79C: Programming in	
C Evaluating	
COMSC 76: Computer Science II: Introduction	COEN 12/12L
to Data Structures	
ENGR 71: Introduction to Circuit Analysis	ELEN 50/50L
Mathematics:	
MATH 71: Calculus I with Analytic Geometry	MATH 11
MATH 72: Calculus II with Analytic Geometry	MATH 12
MATH 73: Multivariable Calculus	MATH 13&14
MATH 78: Differential Equations	MATH 22 or AMTH 106
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GENERAL ENGINEERING MAJOR REQUIREMENTS

Evergreen Valley College Course	SCU course equivalency
Natural Science:	
CHEM 1A: General Chemistry w/Lab	CHEM 11
PHYS 4A: General Physics w/Lab	PHYS 31
PHYS 4B: General Physics w/Lab	PHYS 33
PHYS 4C: General Physics w/Lab	PHYS 32 (when PHYS 4A is taken)
	(If PHYS 4A, 4B & 4C completed, equates to
	SCU's PHYS 31, 32 & 33)
PHYS 7A: Calculus-Based General Physics for	PHYS 31
Scientists and Engineers - I	
PHYS 7B: Calculus-Based General Physics for	PHYS 33
Scientists and Engineers - II	
PHYS 7C: Calculus-Based General Physics for	PHYS 32 (when PHYS 7A is taken)
Scientists and Engineers - III	(If PHYS 7A, 7B & 7C completed, equates to
	SCU's PHYS 31, 32 & 33)
Engineering:	
ENGR 69: Statics	CENG 41
COMSC 20: Introduction to Programming	COEN 10/10L
Concepts and Methodologies OR ENGR 50:	
Introduction to Computing	
ENGR 71: Introduction to Circuit Analysis	ELEN 50/50L
ENGR 18: Engineering Design and Graphics	MECH 10/10L
ENGR 66: Properties of Materials	MECH 15/15L
Mathematics:	
MATH 71: Calculus I with Analytic Geometry	MATH 11
MATH 72: Calculus II with Analytic Geometry	MATH 12

MATH 73: Multivariable Calculus	MATH 13&14
MATH 78: Differential Equations	MATH 22 or AMTH 106

MECHANICAL ENGINEERING MAJOR REQUIREMENTS

Evergreen Valley College Course	SCU course equivalency
Natural Science:	
CHEM 1A: General Chemistry w/Lab	CHEM 11
PHYS 4A: General Physics w/Lab	PHYS 31
PHYS 4B: General Physics w/Lab	PHYS 33
PHYS 4C: General Physics w/Lab	PHYS 32 (when PHYS 4A is taken)
	(If PHYS 4A, 4B & 4C completed, equates to
	SCU's PHYS 31, 32 & 33)
PHYS 7A: Calculus-Based General Physics for	PHYS 31
Scientists and Engineers - I	
PHYS 7B: Calculus-Based General Physics for	PHYS 33
Scientists and Engineers - II	
PHYS 7C: Calculus-Based General Physics for	PHYS 32 (when PHYS 7A is taken)
Scientists and Engineers - III	(If PHYS 7A, 7B & 7C completed, equates to
	SCU's PHYS 31, 32 & 33)
Engineering:	
ENGR 69: Statics	CENG 41
ENGR 71: Introduction to Circuit Analysis	ELEN 50/50L
ENGR 66: Properties of Materials	MECH 15/15L
Mathematics:	
MATH 71: Calculus I with Analytic Geometry	MATH 11
MATH 72: Calculus II with Analytic Geometry	MATH 12
MATH 73: Multivariable Calculus	MATH 13&14
MATH 78: Differential Equations	MATH 22 or AMTH 106

WEB DESIGN AND ENGINEERING MAJOR REQUIREMENTS

Evergreen Valley College Course	SCU course equivalency
Natural Science:	
CHEM 1A: General Chemistry w/Lab	CHEM 11
(Recommended)	
Engineering:	
COMSC 20: Introduction to Programming	COEN 10/10L
Concepts and Methodologies OR ENGR 50:	
Introduction to Computing	
COMSC 75: Computer Science I: Introduction to	COEN 11/11L
Program Structures OR COMSC 79C: Programming in	
C Evaluating	
COMSC 76: Computer Science II: Introduction	COEN 12/12L
to Data Structures	
Mathematics:	
MATH 71: Calculus I with Analytic Geometry	MATH 11
MATH 72: Calculus II with Analytic Geometry	MATH 12
MATH 73: Multivariable Calculus	MATH 13&14

Additional notes:

- Consult the current Undergraduate Bulletin for Advanced Placement and High-Level International Baccalaureate test credit equivalencies at: <u>https://www.scu.edu/bulletin/undergraduate/chapter-</u> <u>8/AcademicCreditEvaluation.html</u>
- Consult the Santa Clara University Undergraduate Bulletin for additional requirements in a major. The Bulletin can be found at: <u>https://www.scu.edu/academics/course-catalogs/undergraduate-bulletin/</u>
- 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.
- <u>Per SCU policy, transfer credit earned after enrollment cannot satisfy University</u> <u>Core, major or minor requirements.</u> Refer to the SCU Undergraduate Bulletin for additional transfer credit restrictions.
- This guide is to be used by transfer applicants, not First-Year (aka: freshmen) applicants. Admitted First-Year students must complete the following Core requirements at SCU: Critical Thinking & Writing 1 and 2; Cultures & Ideas 1 and 2; Religion Theology & Culture 1, 2 and 3 (taken in sequence order at SCU); Civic Engagement; Science, Technology & Society; Experiential Learning for Social Justice; Advanced Writing; and four Pathway courses.

For questions regarding transfer credit or test credit, contact the Transfer Record Analyst at: <u>Registrar@scu.edu</u>.

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.