

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 Satisfied within major requirements at SCU
Natural Science w/Lab* 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: https://www.scu.edu/engineering/undergraduate/degree-programs/)

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

- Bioengineering
Civil Engineering
Computer Science and Engineering
Electrical & Computer Engineering
Electrical Engineering
General Engineering
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: http://www.scu.edu/ugrad/transfer/

Santa Clara University

Undergraduate

School of Engineering

De Anza 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 is 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 1A/1AH and MATH 1B/1BH
- One natural science course with a lab: CHEM 1A/1AH
- Two Calculus-based Physics courses: PHYS 4A and PHYS 4C and/or 4B
 - Web Design Engineering majors are not required to complete CHEM 1A/1AH, PHYS 4A & 4C and/or 4B. Complete one course in the Natural Science list.

- GPA 3.5

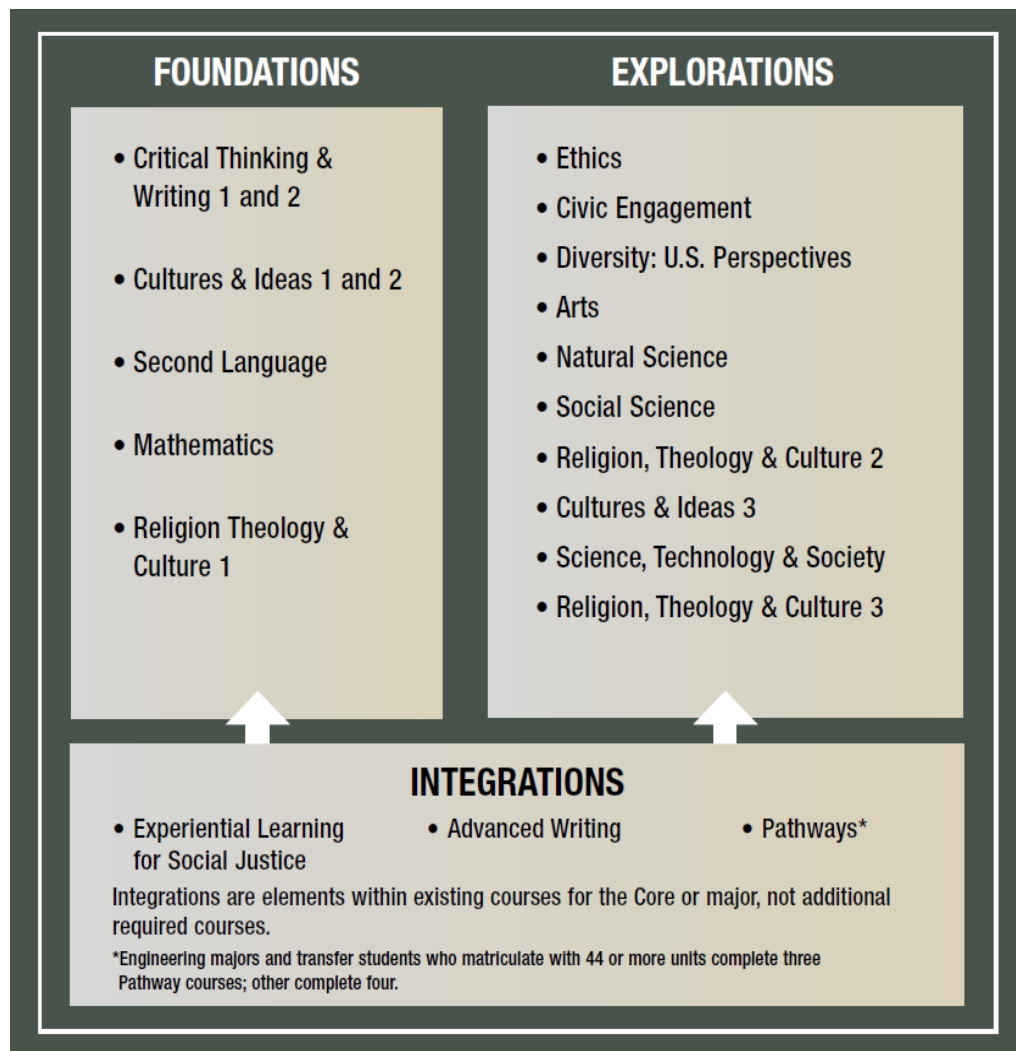
For additional SCU Transfer Admissions information:

<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 First-Year students may not 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
 - 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 Physics</i>	193	96.5	64.33
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 and Electrical & Computer Engineering</i>	190	95	63.33
<i>Mechanical Engineering</i>	192	96	64
<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.

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 De Anza College UC transferable courses to transfer for credit: English as a Second Language, Physical Education, and Physical Education (Adaptive) courses. To view all De Anza 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. 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 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, 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.

De Anza College Course
EWRT 1A/1AH: Composition and Reading

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

Admission recommendation: Complete Critical Thinking and Writing 2 Core requirement

De Anza College Course
EWRT 1B/1BH: Reading, Writing and Research
EWRT 1C: Literature and Composition
EWRT 2/2H: Critical Reading, Writing and Thinking
PHIL 3: Critical Thinking and Writing
COMM 9/9H (formerly SPCH 9): Argumentation Analysis of Oral and Written

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.

De Anza College Course
ADMJ 1: Intro to Administration of Justice
ADMJ 3: Concepts of Criminal Law
ADMJ 11: Federal Courts and Constitutional Law
ADMJ 29: Ethnic Studies, Cultural Pluralism and American Law and Justice
ARTS 2A: History of Art (Europe from Prehistory- Early Christianity)
ARTS 2B: History of Art (Europe during the Middle Ages and the Renaissance)
ARTS 2C: History of Art (Europe from the Baroque Period – Impressionism)
ARTS 2D: History of Art (Europe and the United States from Post Impressionism to Present)
ARTS 2F: History of Art (Multicultural Arts in the United States)
ARTS 3TD: American Art (Public and Private)
CETH 13: History of Art (Multicultural Arts in the United States)
CETH 29: Ethnic Studies, Cultural Pluralism and American Law and Justice
ELIT 38: Utopian/Dystopian Literature
ELIT 41/41H: Ethnic Literature of the United States
ELIT 46A/46AH Major British Writers – Medieval and Renaissance
ELIT 46B/46BH Major British Writers – Neo-Classical and Romantic
ELIT 46C/46CH Major British Writers – Victorian and Modern
ELIT 48A/48AH: Major American Writers (Colonial and Romantic 1620-1865)
ELIT 48B/48BH: Major American Writers (The Advent of Realism, 1865- 1914)
ELIT 48C/48CH: Major American Writers (The Modern Age, 1914- The Present)
F/TV 3A: American Cultures in Film
F/TV 10/10H: Introduction to Electronic Media
HIST 6A/6AH: History of Western Civilization: Pre-History to 750 C.E.
HIST 6B/6BH: History of Western Civilization: 750 C.E. to 1750 C.E.

HIST 6C/6CH: History of Western Civilization: 750 C.E. to Present
HIST 9/9H: Women in American History
HIST 10/10H: History of California
HIST 17A/17AH: History of the United States to Early National Era
HIST 17B/17BH: History of the United States From 1800-1900
HIST 17C/17CH: History of the United States From 1900- the Present
HUMI 18/18H: History as Mystery: A Critique of Western Perspectives in Global Contexts
ICS 25: Grassroots Democracy: Race, Politics and the American Promise
ICS 36: Grassroots Democracy: Social Movements Since the 1960s
ICS 27/27H: Grassroots Democracy: Leadership and Power
MUSI 1A: Intro to Music- Music in Western Cultures
MUSI 1B: Music Appreciation: Jazz Styles
MUSI 1C: Intro to Music- World Music in America
MUSI 1D: Music Appreciation: Rock - From Roots to Rap
PARA 3: Concepts of Criminal Law (CP2)
PARA 11: Federal Courts and Constitutional Law
PHIL 20A: History of Western Philosophy: Ancient Greece
PHIL 20B: History of Western Philosophy: 1400-1800
PHIL 20C: Philosophy: 1800- the Present
PHTG 21: Contemporary Trends in Photography
POLI 1/1H: American Government and Politics
POLI 10: Introduction to Administration of Justice
POLI 11: Federal Courts and Constitutional Law
POLI 13: Concepts of Criminal Law (CP2)
POLI 15: Grassroots Democracy: Race, Politics and the American Promise
POLI 16: Grassroots Democracy: Social Movements Since the 1960s
POLI 17/17H: Grassroots Democracy: Leadership and Power
WMST 9/9H: Women in American History

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.

De Anza College Course
ANTH 2/2H: Cultural Anthropology
ANTH 4: World Prehistory
ANTH 6: Linguistic Anthropology
ARTS 1B: Architecture Past and Present
ARTS 2G: History of Art (Arts of Asia)
ARTS 2H: History of Art (Native Arts of Mesoamerica and the Andes)
ARTS 2J: History of Art (Africa, Oceania, and...)

ASAM 13: Asian Americans and Asia
ASAM 31: Introduction to Pacific Islander History and Culture
ASAM 32: Vietnamese Literature (From Tradition to Asian American Identity)
ASAM 40: History of Art (Arts of Asia)
ASAM 41: Introduction to Korean Popular Culture
ASAM 42A: History of Asian Civilization: China and Japan (to the 19th Century)
ASAM 42B: History of Asian Civilization: China and Japan (19th - 21st Centuries)
ELIT 22: Mythology and Folklore
ELIT 47A: World Literature – Antiquity to the 1500s
ELIT 47B: World Literature – Africa and Latin America
F/TV 2A/2AH: History of the Cinema (1895-1950)
F/TV 2AW/2AWH: History of Cinema (1895-1950)
F/TV 2B/2BH: History of Cinema (1950-Present)
F/TV 2BW/2BWH: History of Cinema (1950-Present)
F/TV 2CW: Contemporary World Cinema
F/TV 2C/2CH: Contemporary World Cinema
F/TV 2CW/2CWH: Contemporary World Cinema
F/TV 41: Film Genres
F/TV 42: National Cinemas
F/TV 45: History of Experimental Film/Video
GEO 10: World Regional Geography
HIST 3A/H: World History from Prehistory to 750 CE
HIST 3B/H: World History from 750 CE to 1750 CE
HIST 3C/H: World History from 1750 CE to Present
HIST 7A: Colonial Latin American History
HIST 7B: Modern Latin American History
HIST 16A: History of Africa to 1800
HIST 16B: History of Africa from 1800- Present
HIST 19A: History of Asian Civilization: China and Japan (to the 19 th Century)
HIST 19B: History of Asian Civilization: China and Japan (19 th and 21 st Centuries)
HUMI 9/H: Intro to Comparative Religion
HUMI 10: Global Religious Perspectives: Judaism, Christianity and Islam
HUMI 13: Intro to Korean Popular Culture
ICS 16A: History of Africa to 1800
ICS 16B: History of Africa from 1800- Present
ICS 37: Ancient People of Mesoamerica
ICS 38A: Colonial Latin American History
ICS 38B: Modern Latin American History
INTL 5: Contemporary Global Issues
INTL 8: Sociology of Globalization and Social Change
INTL 21: History of Art (Native Arts of Mesoamerica and South America)
INTL 22: History of Art (Africa, Oceania, and...)
PHIL/WMST 49: Women and Philosophy
PHIL 24: Philosophy of Religion
POLI 2: Comparative Politics
POLI 3: International Relations
SOC 5: Sociology of Globalization and Social Change
WMST 24: Women and Gender in Global Perspective

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 1A/1AH and MATH 1B/1BH

To fulfill the admission mathematics requirement, complete both MATH 1A/1AH and MATH 1B/1BH 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).

De Anza College Course	SCU Course equivalency
MATH 1A/1AH: Calculus	MATH 11
MATH 1B/1BH: Calculus	MATH 12
MATH 1C/1CH: Calculus	MATH 13
MATH 1D/1DH: Calculus	MATH 14
MATH 2A/2AH: Differential Equations	MATH 22 or AMTH 106
MATH 2B/2BH: Linear Algebra	MATH 53
MATH 10/10H: Introductory Statistics OR MATH 17: Integrated Statistics 2 OR MATH 23: Engineering Statistics	MATH 8
MATH 11/11H: Finite Mathematics	MATH 6
MATH 22: Discrete Mathematics OR MATH 22H: Discrete Mathematics - HONORS	MATH 51 or COEN 19

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.

Students transferring with less than 30 semester units of transfer credit may complete **one course** 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.

De Anza College Course
HUMI 9/9H: Introduction to Comparative Religions
HUMI 10: Global Religious Perspectives: Judaism, Christianity, and Islam

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.

De Anza College Course
PHIL 8/8H: 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.

De Anza College Course
ADMJ 29: Cultural Pluralism and American Law and Justice
AFAM 10: An Introduction to African American Studies
AFAM 11: Sankofa: Roots of the African American Experience
AFAM 12A: African American History to 1865
AFAM 12B: African American History Since 1865
AFAM 25: Introduction to Black Feminism
ARTS 2F: History of Art (Multicultural Arts in the United States)

ARTS 3TC: Women and Art
ASAM 1: Asian American Experience Past and Present
ASAM 10: Contemporary Asian American Communities
ASAM 11: Asian Americans and Racism
ASAM 12: Asian Americans and American Ideals, Institutions and Politics
ASAM 20 Asian Pacific American Literature
ASAM 21: Asian Pacific Americans Make Culture
ASAM 22: Asian American Pacific Islander Women
ASAM 30: Introduction to FilipinX American History and Culture
ASAM 32: Vietnamese Literature from Traditional to Asian American Expressions
ASAM 40: History of Art (Arts of Asia)
ASAM 41: Introduction to Korean Popular Culture
CETH 8: Women of Color in the USA
CETH 10: Race, Ethnicity, and Inequality
CETH 11: Race and Ethnicity: Belonging and Exclusion in the U.S.
CETH 13: History of Art (Multicultural Arts in the United States)
CETH 19: Masculinities in U.S. Culture and Society
CETH 29: Ethnic Studies, Cultural Pluralism and American Law and Justice
CHLX 10: Introduction to Chicanx and Latinx Studies
CHLX 11: Chicanx Culture
CHLX 12: Chicanx and Latinx History
CHLX 13: The Chicanx and Latinx and the Arts
CHLX 26: La Mujer: Latina Life and Experience
COMM 7/7H: Intercultural Communication
EDUC 1: Introduction to Elementary Education in a Diverse Society
ELIT 21: Women in Literature
ELIT 24: Asian Pacific American Literature
ELIT 40: African American Literature
ELIT 41/41H: Ethnic Literature of the United States
F/TV 45: History of Experimental Film/Video
GEO 4: Cultural Geography
HIST 9/9H: Women in American History
HIST 10/10H: History of California
HIST 18A: African American History to 1865
HIST 18B: African American History Since 1865
HUMI 1/1H: Creative Minds
ICS 7/7H: Intercultural Communication
ICS 26: Intro to Lesbian, Gay, Bisexual, Transgender and Queer Studies
ICS 35: Chicano/a, Latino/a Literature
ICS 47: Introduction to Disability Studies
INTL 16: Multicultural Voices in Germany
NAIS 11: Native American Contemporary Society
NAIS 12: Ethnic Studies and the Historical Experiences of Native Americans
NAIS 13: Survey of Native American Arts
NAIS 14: Native American Religious Traditions
NAIS 15: Native American Literature
NAIS 16: California Native Americans
NAIS 31: Ethnic Studies: Native Hawaiian and Pacific Islander Experiences
POLI 15: Grassroots Democracy: Race, Politics and the American Promise

PSYC 12: Psychology of Gender
SOC 20: Sociology of Structural Racism in the United States
WMST 1: Introduction to Women's Studies
WMST 3C: Women and Art
WMST 8: Women of Color in the USA
WMST 9/9H: Women in American History
WMST 12: Psychology of Gender
WMST 21: Women in Literature
WMST 22: Asian American Pacific Islander Women
WMST 25: Introduction to Black Feminism
WMST 26: La Mujer: Latina Life and Experience
WMST 27: Women and Gendered Violence
WMST 29: Masculinities in the US Culture and Society
WMST 31: Women and Popular Culture

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/1AH; PHYS 4A & 4C and/or 4B

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

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 a De Anza 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.

De Anza College Course	SCU Course Equivalency
ANTH 1/1H/1L: Physical Anthro / Physical	ANTH 1

Anthro Lab	
ASTR 4/15L: Solar System Astro / Astro Lab	TRCR 18
ASTR 10/15L: Stellar Astro /Astro Lab	TRCR 18
BIOL 6A/6AH: Form and Function in the Biological World w/Lab	<i>Transfer credits for SCU's BIOL 1A, 1B, and 1C series given if all three BIOL 6A, 6B, AND 6C are taken.</i>
BIOL 6B: Cell and Molecular Biology w/Lab	
BIOL 6C/6CH: Evolution and Ecology w/Lab	
BIOL 10/10H: Intro Biology w/Lab	TRCR 18
BIOL 11: Human Biology w/Lab	TRCR 18
BIOL 13: Marine Biology w/Lab	TRCR 18
BIOL 15: California Ecology w/Lab	TRCR 18
BIOL 26: Intro Microbiology w/Lab	TRCR 18
BIOL 40A: Human Anatomy and Physiology w/Lab	TRCR 18
BIOL 40B: Human Anatomy and Physiology w/Lab	TRCR 18
BIOL 40C: Human Anatomy and Physiology w/Lab	TRCR 18
CHEM 1A: General Chemistry w/Lab	CHEM 11
CHEM 1B: General Chemistry w/Lab	CHEM 12
CHEM 1C: General Chem and Qualitative Analysis w/Lab w/Lab	CHEM 50
CHEM 10: Introductory Chemistry	TRCR 18
CHEM 12A: Organic Chemistry w/Lab	CHEM 31
CHEM 12B: Organic Chemistry w/Lab	CHEM 32
CHEM 12C: Organic Chemistry w/Lab	CHEM 33
CHEM 25: Preparatory Course for General Chemistry w/Lab	TRCR 18
CHEM 30A: Introduction to General, Organic, and Biochemistry I w/Lab	TRCR 18
CHEM 30B: Introduction to General, Organic, and Biochemistry II w/Lab	TRCR 18
ESCI 1/1L: Environmental Science / Environmental Science Lab	ENVS 21
ESCI 19: Environmental Biology w/Lab	TRCR 18
ESCI 21: Practices of Environmental Stewardship w/Lab	TRCR 18
ESCI 30: Introduction to Conservation Biology w/Lab	TRCR 18
GEOL 10: Introductory Geology w/Lab	CENG 20/20L
MET 10: Weather and Climate Processes AND MET 10L: Meteorology Laboratory OR MET 20L: Climate Change Laboratory	TRCR 18
PHYS 2A: General Introductory Physics w/Lab	PHYS 11
PHYS 2B: General Introductory Physics w/Lab	PHYS 12
PHYS 2C: General Introductory Physics w/Lab	PHYS 13
PHYS 4A: Physics for Scientists and Engineers: Mechanics w/Lab	PHYS 31
PHYS 4B: Physics for Scientists and Engineers: Electricity and Magnetism w/Lab	PHYS 33

PHYS 4C: Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics w/Lab	PHYS 32
PHYS 4D: Physics for Scientists and Engineers: Modern Physics w/Lab	PHYS 34

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.

De Anza College Course
ADMJ 25: Law and Social Change
ANTH 2/2H: Cultural Anthropology
ANTH 3: Intro to Archaeology
ECON 1/1H: Principles of Macroeconomics
ECON 2/2H: Principles of Microeconomics
ECON 3/3H: Environmental Economics
ECON 5: Behavioral Economics
EDUC 1: Intro to Elem Educ in a Diverse Society
INTL 8: Sociology of Globalization and Social Change
PARA 25: Law and Social Change
POLI 2: Comparative Politics
PSYC 1: General Psychology
PSYC 8: Introduction to Social Psychology
SOC 1: Introduction to Sociology
SOC 5: Sociology of Globalization and Social Change
SOC 20: Social Problems
SOC 28: Sociology of Gender
SOC 35: Marriage, Family and Intimate Relationships
WMST 28: Sociology of Gender

RELIGION, THEOLOGY & CULTURE 2: Must complete 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.

De Anza College Course
ANTH 2/2H: Cultural Anthropology
ANTH 4: World Prehistory
ANTH 6: Linguistic Anthropology
ARTS 1B: Architecture Past and Present
ARTS 2G: History of Art (Arts of Asia)
ARTS 2H: History of Art (Native Arts of Mesoamerica and the Andes)
ARTS 2J: History of Art (Africa, Oceania, and...)
ASAM 13: Asian Americans and Asia
NAIS 31: Introduction to Pacific Islander History and Culture
ASAM 32: Vietnamese Literature (From Tradition to Asian American Identity)
ASAM 40: History of Art (Arts of Asia)
ASAM 41: Introduction to Korean Popular Culture
ASAM 42A: History of Asian Civilization: China and Japan (to the 19th Century)
ASAM 42B: History of Asian Civilization: China and Japan (19th - 21st Centuries)
ELIT 22: Mythology and Folklore
ELIT 47A: World Literature – Antiquity to the 1500s
ELIT 47B: World Literature – Africa and Latin America
F/TV 2A/2AH: History of the Cinema (1895-1950)
F/TV 2AW/2AWH: History of Cinema (1895-1950)
F/TV 2B/2BH: History of Cinema (1950-Present)
F/TV 2BW/2BWH: History of Cinema (1950-Present)
F/TV 2CW: Contemporary World Cinema
F/TV 2C/2CH: Contemporary World Cinema
F/TV 2CW/2CWH: Contemporary World Cinema
F/TV 41: Film Genres
F/TV 42: National Cinemas
F/TV 45: History of Experimental Film/Video
GEO 10: World Regional Geography
HIST 3A/H: World History from Prehistory to 750 CE
HIST 3B/H: World History from 750 CE to 1750 CE
HIST 3C/H: World History from 1750 CE to Present
HIST 7A: Colonial Latin American History
HIST 7B: Modern Latin American History
HIST 16A: History of Africa to 1800
HIST 16B: History of Africa from 1800- Present
HIST 19A: History of Asian Civilization: China and Japan (to the 19 th Century)
HIST 19B: History of Asian Civilization: China and Japan (19 th and 21 st Centuries)
HUMI 9/H: Intro to Comparative Religion
HUMI 10: Global Religious Perspectives: Judaism, Christianity and Islam
HUMI 13: Intro to Korean Popular Culture

ICS 16A: History of Africa to 1800
ICS 16B: History of Africa from 1800- Present
ICS 37: Ancient People of Mesoamerica
ICS 38A: Colonial Latin American History
ICS 38B: Modern Latin American History
INTL 5: Contemporary Global Issues
INTL 8: Sociology of Globalization and Social Change
INTL 21: History of Art (Native Arts of Mesoamerica and South America)
INTL 22: History of Art (Africa, Oceania, and...)
PHIL 24: Philosophy of Religion
PHIL 49: Women and Philosophy
POLI 2: Comparative Politics
POLI 3: International Relations
SOC 5: Sociology of Globalization and Social Change
WMST 24: Women and Gender in Global Perspective
WMST 49: Women and Philosophy

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

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

INTEGRATIONS Core requirements

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

ADVANCED WRITING: Must complete at Santa Clara University.

PATHWAYS: Must complete 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 students to complete additional School of Engineering requirements.

SCU COURSE	DE ANZA COURSE	BIOE	CENG	COEN	ECEN	ELEN	ENGR	MECH	WDE
MATH 11	MATH 1A/1AH	X	X	X	X	X	X	X	X
MATH 12	MATH 1B/1BH	X	X	X	X	X	X	X	X
MATH 13	MATH 1C/1CH	X	X	X	X	X	X	X	X
MATH 14	MATH 1D/1DH	X	X	X	X	X	X	X	X
MATH 22 or AMTH 106	MATH 2A/2AH	X	X	X	X	X	X	X	
MATH 51 or COEN 19	MATH 22/22H			X	X				
MATH 53	MATH 2B/2BH			X	X				
PHYS 31	PHYS 4A	X	X	X	X	X	X	X	
PHYS 32	PHYS 4C	X	X	X	X	X	X	X	
PHYS 33	PHYS 4B	X	X	X	X	X	X	X	
PHYS 34	PHYS 4D					X			
CHEM 11	CHEM 1A/1AH	X	X	X	X	X	X	X	
ELEN/COEN 21/21L	-			X	X	X	X		
ELEN 50/50L	ENGR 37	X		X	X	X	X	X	
CENG 41	ENGR 35		X				X	X	
COEN 10/10L	CIS 22A OR CIS 26A OR CIS 35A OR CIS 35B OR CIS 36A OR CIS 36B			X	X	X	X		X
COEN 11/11L	CIS 22B/22BH OR CIS 26B/26BH OR CIS 27 OR CIS 29			X	X	X			X
COEN 12/12L	CIS 22C/22CH			X	X	X			X

Abbreviations and Links:

[BIOE = Bioengineering](#)

[CENG = Civil, Environmental, and Sustainable Engineering](#)

[COEN = Computer Science and Engineering](#)

[ECEN = Electrical and Computer Engineering](#)

[ELEN = Electrical Engineering](#)

[ENGR = General Engineering](#)

[MECH = Mechanical Engineering](#)

[WDE = Web Design and Engineering](#)

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

BIOENGINEERING MAJOR REQUIREMENTS

De Anza College Course	SCU course equivalency
Natural Science:	
BIOL 6A/6AH: Form and Function in the Biological World w/Lab	<i>Transfer credits for SCU's BIOL 1A, 1B, and 1C series given if all three BIOL 6A, 6B, AND 6C are taken.</i> *** For Pre-Med Track ***
BIOL 6B: Cell and Molecular Biology w/Lab	
BIOL 6C/6CH: Evolution and Ecology w/Lab	
CHEM 1A/1AH: General Chemistry	CHEM 11
CHEM 1B/1BH: General Chemistry	CHEM 12
CHEM 1C/1CH: General Chemistry	CHEM 50
CHEM 12A: Organic Chemistry	CHEM 31
CHEM 12B: Organic Chemistry	CHEM 32
CHEM 12C: Organic Chemistry	CHEM 33
PHYS 4A: Physics for Scientists and Engineers: Mechanics	PHYS 31
PHYS 4C: Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics	PHYS 32
PHYS 4B: Physics for Scientists and Engineers: Electricity and Magnetism	PHYS 33
Engineering:	
ENGR 37: Introduction to Circuit Analysis	ELEN 50/50L
Mathematics:	
MATH 1A/1AH: Calculus	MATH 11
MATH 1B/1BH: Calculus	MATH 12
MATH 1C/1CH: Calculus	MATH 13
MATH 1D/1DH: Calculus	MATH 14
MATH 2A/2AH: Differential Equations	MATH 22 or AMTH 106

CIVIL ENGINEERING MAJOR REQUIREMENTS

De Anza College Course	SCU course equivalency
Natural Science:	
CHEM 1A/1AH: General Chemistry	CHEM 11
PHYS 4A: Physics for Scientists and Engineers: Mechanics	PHYS 31
PHYS 4C: Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics	PHYS 32
PHYS 4B: Physics for Scientists and Engineers: Electricity and Magnetism	PHYS 33
GEOL 10: Introductory Geology w/Lab	CENG 20/20L
Engineering:	

ENGR 37: Introduction to Circuit Analysis	ELEN 50/50L
ENGR 35: Statics	CENG 41
Mathematics:	
MATH 1A/1AH: Calculus	MATH 11
MATH 1B/1BH: Calculus	MATH 12
MATH 1C/1CH: Calculus	MATH 13
MATH 1D/1DH: Calculus	MATH 14
MATH 2A/2AH: Differential Equations	MATH 22 or AMTH 106

COMPUTER SCIENCE & ENGINEERING MAJOR REQUIREMENTS

De Anza College Course	SCU course equivalency
Natural Science:	
CHEM 1A/1AH: General Chemistry	CHEM 11
PHYS 4A: Physics for Scientists and Engineers: Mechanics	PHYS 31
PHYS 4C: Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics	PHYS 32
PHYS 4B: Physics for Scientists and Engineers: Electricity and Magnetism	PHYS 33
Engineering:	
ENGR 37: Introduction to Circuit Analysis	ELEN 50/50L
CIS 22A: Beginning Programming Methodologies in C++ OR CIS 26A: C as a Second Programming Language OR CIS 35A: Java Programming OR CIS 35B: Advanced Java Programming OR CIS 36A: Introduction to Computer Programming Using Java OR CIS 36B: Intermediate Problem Solving in Java	COEN 10/10L
CIS 22B/22BH: Intermediate Programming Methodologies in C++ OR CIS 26B/26BH: Advanced C Programming OR CIS 27: Programming in C++ for C/Java Programmers OR CIS 29: Advanced C++ Programming	COEN 11/11L
CIS 22C/22CH: Data Abstraction and Structures	COEN 12/12L
MATH 22: Discrete Mathematics OR MATH 22H: Discrete Mathematics - HONORS	COEN 19 or MATH 51
CIS 21JA: Introduction to x86 Processor Assembly Language and Computer Architecture OR CIS 21JB: Advanced x86 Processor Assembly Programming	COEN 20/20L
Mathematics:	
MATH 1A/1AH: Calculus	MATH 11
MATH 1B/1BH: Calculus	MATH 12
MATH 1C/1CH: Calculus	MATH 13
MATH 1D/1DH: Calculus	MATH 14
MATH 2A/2AH: Differential Equations	MATH 22 or AMTH 106
MATH 2B/2BH: Linear Algebra	MATH 53

ELECTRICAL & COMPUTER ENGINEERING MAJOR REQUIREMENTS

De Anza College Course	SCU course equivalency
Natural Science:	
CHEM 1A/1AH: General Chemistry	CHEM 11
PHYS 4A: Physics for Scientists and Engineers: Mechanics	PHYS 31
PHYS 4C: Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics	PHYS 32
PHYS 4B: Physics for Scientists and Engineers: Electricity and Magnetism	PHYS 33
Engineering:	
ENGR 37: Introduction to Circuit Analysis	ELEN 50/50L
CIS 22A: Beginning Programming Methodologies in C++ OR CIS 26A: C as a Second Programming Language OR CIS 35A: Java Programming OR CIS 35B: Advanced Java Programming OR CIS 36A: Introduction to Computer Programming Using Java OR CIS 36B: Intermediate Problem Solving in Java	COEN 10/10L
CIS 22B/22BH: Intermediate Programming Methodologies in C++ OR CIS 26B/26BH: Advanced C Programming OR CIS 27: Programming in C++ for C/Java Programmers OR CIS 29: Advanced C++ Programming	COEN 11/11L
CIS 22C/22CH: Data Abstraction and Structures	COEN 12/12L
MATH 22: Discrete Mathematics OR MATH 22H: Discrete Mathematics - HONORS	COEN 19 or MATH 51
Mathematics:	
MATH 1A/1AH: Calculus	MATH 11
MATH 1B/1BH: Calculus	MATH 12
MATH 1C/1CH: Calculus	MATH 13
MATH 1D/1DH: Calculus	MATH 14
MATH 2A/2AH: Differential Equations	MATH 22 or AMTH 106
MATH 2B/2BH: Linear Algebra	MATH 53

ELECTRICAL ENGINEERING MAJOR REQUIREMENTS

De Anza College Course	SCU course equivalency
Natural Science:	
CHEM 1A/1AH: General Chemistry	CHEM 11
PHYS 4A: Physics for Scientists and Engineers: Mechanics	PHYS 31
PHYS 4C: Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics	PHYS 32
PHYS 4B: Physics for Scientists and Engineers: Electricity and Magnetism	PHYS 33
PHYS 4D: Physics for Scientists and Engineers: Modern Physics	PHYS 34

Engineering:	
ENGR 37: Introduction to Circuit Analysis	ELEN 50/50L
ENGR 35: Statics	CENG 41
CIS 22A: Beginning Programming Methodologies in C++ OR CIS 26A: C as a Second Programming Language OR CIS 35A: Java Programming OR CIS 35B: Advanced Java Programming OR CIS 36A: Introduction to Computer Programming Using Java OR CIS 36B: Intermediate Problem Solving in Java	COEN 10/10L
CIS 22B/22BH: Intermediate Programming Methodologies in C++ OR CIS 26B/26BH: Advanced C Programming OR CIS 27: Programming in C++ for C/Java Programmers OR CIS 29: Advanced C++ Programming	COEN 11/11L
CIS 22C/22CH: Data Abstraction and Structures	COEN 12/12L
Mathematics:	
MATH 1A/1AH: Calculus	MATH 11
MATH 1B/1BH: Calculus	MATH 12
MATH 1C/1CH: Calculus	MATH 13
MATH 1D/1DH: Calculus	MATH 14
MATH 2A/2AH: Differential Equations	MATH 22 or AMTH 106

GENERAL ENGINEERING MAJOR REQUIREMENTS

De Anza College Course	SCU course equivalency
Natural Science:	
CHEM 1A/1AH: General Chemistry	CHEM 11
PHYS 4A: Physics for Scientists and Engineers: Mechanics	PHYS 31
PHYS 4C: Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics	PHYS 32
PHYS 4B: Physics for Scientists and Engineers: Electricity and Magnetism	PHYS 33
Engineering:	
ENGR 37: Introduction to Circuit Analysis	ELEN 50/50L
ENGR 35: Statics	CENG 41
CIS 22A: Beginning Programming Methodologies in C++ OR CIS 26A: C as a Second Programming Language OR CIS 35A: Java Programming OR CIS 35B: Advanced Java Programming OR CIS 36A: Introduction to Computer Programming Using Java OR CIS 36B: Intermediate Problem Solving in Java	COEN 10/10L
Mathematics:	
MATH 1A/1AH: Calculus	MATH 11
MATH 1B/1BH: Calculus	MATH 12
MATH 1C/1CH: Calculus	MATH 13
MATH 1D/1DH: Calculus	MATH 14
MATH 2A/2AH: Differential Equations	MATH 22 or AMTH 106

MECHANICAL ENGINEERING MAJOR REQUIREMENTS

De Anza College Course	SCU course equivalency
Natural Science:	
CHEM 1A/1AH: General Chemistry	CHEM 11
PHYS 4A: Physics for Scientists and Engineers: Mechanics	PHYS 31
PHYS 4C: Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics	PHYS 32
PHYS 4B: Physics for Scientists and Engineers: Electricity and Magnetism	PHYS 33
Engineering:	
ENGR 37: Introduction to Circuit Analysis	ELEN 50/50L
ENGR 35: Statics	CENG 41
Mathematics:	
MATH 1A/1AH: Calculus	MATH 11
MATH 1B/1BH: Calculus	MATH 12
MATH 1C/1CH: Calculus	MATH 13
MATH 1D/1DH: Calculus	MATH 14
MATH 2A/2AH: Differential Equations	MATH 22 or AMTH 106

WEB DESIGN AND ENGINEERING MAJOR REQUIREMENTS

De Anza College Course	SCU course equivalency
Natural Science:	
CHEM 1A/1AH: General Chemistry (Recommended)	CHEM 11
Engineering:	
CIS 22A: Beginning Programming Methodologies in C++ OR CIS 26A: C as a Second Programming Language OR CIS 35A: Java Programming OR CIS 35B: Advanced Java Programming OR CIS 36A: Introduction to Computer Programming Using Java OR CIS 36B: Intermediate Problem Solving in Java	COEN 10/10L
CIS 22B/22BH: Intermediate Programming Methodologies in C++ OR CIS 26B/26BH: Advanced C Programming OR CIS 27: Programming in C++ for C/Java Programmers OR CIS 29: Advanced C++ Programming	COEN 11/11L
CIS 22C/22CH: Data Abstraction and Structures	COEN 12/12L
Mathematics:	
MATH 1A/1AH: Calculus	MATH 11
MATH 1B/1BH: Calculus	MATH 12
MATH 1C/1CH: Calculus	MATH 13
MATH 1D/1DH: Calculus	MATH 14

Additional notes:

- Consult the current Undergraduate Bulletin for Advanced Placement and High-Level International Baccalaureate test credit equivalencies at:
<https://www.scu.edu/bulletin/undergraduate/chapter-8/AcademicCreditEvaluation.html>
- Consult the Santa Clara University Undergraduate Bulletin for additional requirements in a major. The Bulletin can be found at:
<https://www.scu.edu/academics/course-catalogs/undergraduate-bulletin/>
- 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.
- 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:
Registrar@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.