Please visit your counselor to apply for certificates or degrees and for academic planning assistance.

A.A.-T./A.S.-T. Degree for Transfer Requirements
1. Completion of all major courses with a C grade or higher. Major courses may be used to satisfy GE requirements.
2. Completion of either the California State University General Education-Breadth pattern (CSU GE) or the Intersegmental General Education Transfer Curriculum (IGETC) pattern in full; students transferring to CSU using IGETC must complete Area 1C.
3. Completion of a minimum of 90 CSU-transferable quarter units with a minimum overall GPA of 2.0 in all CSU-transferable units.

Note: While a minimum 2.0 GPA is required for admission to CSU, many majors and campuses require a higher GPA. Please consult with a counselor or academic adviser.

Note: A minimum of 18 degree-applicable quarter units must be earned at De Anza College.

Associate in Science in Computer Science for Transfer
A.S.-T. Degree
The Computer Science major consists of courses appropriate for an Associate in Science in Computer Science for Transfer degree, which provides a foundational understanding of the discipline, a breadth of coursework in the discipline and preparation for transfer to any CSU that accepts the Transfer Model Curriculum (TMC). It is a starting point for students who are preparing for careers in software engineering, network administration and database management, where scientific and technical skills are in great demand. It also provides a foundation for majors in physical science, math and engineering.

The Associate in Science in Computer Science for Transfer is intended for students who plan to complete a bachelor's degree in Computer Science (or an approved similar major) at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 (semester) units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Program Learning Outcomes: Upon completion, students will be able to
• Create, design, implement and debug solutions for computing systems of different levels of complexity using an object orientated language
• Create, design, implement and debug solutions for low-level systems using assembly language

1. Meet the A.A.-T./A.S.-T. degree for transfer requirements.
2. Complete the following.

Required Core: 36.5
CIS 21JA Introduction to x86 Processor Assembly Language and Computer Architecture 4.5
MATH 1A Calculus 5
or MATH 1AH Calculus - HONORS
MATH 1B Calculus 5
or MATH 1BH Calculus - HONORS
MATH 1C Calculus 5
or MATH 1CH Calculus - HONORS
MATH 22 Discrete Mathematics 5
or MATH 22H Discrete Mathematics - HONORS
PHYS 4A Physics for Scientists and Engineers: Mechanics 6
PHYS 4B Physics for Scientists and Engineers: Electricity and Magnetism 6

Required Core - Complete one option: 9-13.5
Option 1:
CIS 22A Beginning Programming
CIS 22B Intermediate Programming
or CIS 22BH Intermediate Programming
CIS 22C Data Abstraction and Structures (4.5)
or CIS 22CH Data Abstraction and Structures - HONORS (4.5)

Option 2:
CIS 22C Data Abstraction and Structures (4.5)
or CIS 22CH Data Abstraction and Structures - HONORS (4.5)
CIS 35A Java Programming (4.5)

Major Computer Science for Transfer 45.5-50
Transfer GE IGETC for CSU (51-62 units)
Electives CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90

Total Units Required ...........................................90