

21250 Stevens Creek Blvd. Cupertino, CA 95014 408-864-5678 www.deanza.edu

Academic Year

2022 - 2023

Associate in Science in Computer Science for Transfer (A.S.-T.)

Business, Computer Sciences and Applied Technologies Division Bldg. L1, Room L14 408-864-8797 Find your counselor at deanza.edu/our-counselors

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

- 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 IC.
- 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 data base 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.

Electives

| 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 |
| | | |
| - | - Complete one option: | 9-13.5 |
| Option 1: | | |
| CIS 22A | Beginning Programming | |
| | Methodologies in C++ (4.5) | |
| CIS 22B | Intermediate Programming | |
| | Methodologies in C++ (4.5) | |
| or CIS 22BH | Intermediate Programming | |
| | Methodologies in C++ - HONORS (4.5) | |
| CIS 22C | Data Abstraction and Structures (4.5) | |
| or CIS 22CH | Data Abstraction and | |
| | Structures - HONORS (4.5) | |
| 0-40 | | |
| Option 2: | D . Al | |
| CIS 22C | Data Abstraction and Structures (4.5) | |
| or CIS 22CH | Data Abstraction and | |
| 0.0 | 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) | |
| | | |

CSU-transferrable elective courses required when the major units plus transfer GE units

Total Units Required90

total is less than 90 units