

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

Academic Year

2021 - 2022

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.

Transfer GE

Electives

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Required Core	:	36.5
CIS 21JA	Introduction to x86 Processor Assembly	
	Language and Computer Architecture	4.5
MATH 1A	Calculus	5
or MATH 1AH		_
MATH 1B	Calculus	5
_	Calculus - HONORS	
MATH 1C	Calculus	5
-	Calculus - HONORS	
MATH 22	Discrete Mathematics	5
or MATH 22H		
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
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Option 1:		
Option 1: CIS 22A	Beginning Programming	
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•	Methodologies in C++ (4.5)	
CIS 22A	Methodologies in C++ (4.5) Intermediate Programming	
CIS 22A	Methodologies in C++ (4.5) Intermediate Programming Methodologies in C++ (4.5)	
CIS 22A CIS 22B	Methodologies in C++ (4.5) Intermediate Programming Methodologies in C++ (4.5) Intermediate Programming	
CIS 22A CIS 22B	Methodologies in C++ (4.5) Intermediate Programming Methodologies in C++ (4.5) Intermediate Programming Methodologies in C++ - HONORS (4.5)	
CIS 22A CIS 22B or CIS 22BH	Methodologies in C++ (4.5) Intermediate Programming Methodologies in C++ (4.5) Intermediate Programming	
CIS 22A CIS 22B or CIS 22BH CIS 22C	Methodologies in C++ (4.5) Intermediate Programming Methodologies in C++ (4.5) Intermediate Programming Methodologies in C++ - HONORS (4.5) Data Abstraction and Structures (4.5)	
CIS 22A CIS 22B or CIS 22BH CIS 22C	Methodologies in C++ (4.5) Intermediate Programming Methodologies in C++ (4.5) Intermediate Programming Methodologies in C++ - HONORS (4.5) Data Abstraction and Structures (4.5) Data Abstraction and	
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IGETC for CSU (51-62 units)

total is less than 90

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

Total Units Required90