

COMPUTER SCIENCE FOR TRANSFER (AS-T)

PROGRAM DESCRIPTION:

The Associate in Science for Transfer (AS-T) degree in Computer Science prepares students for transfer to four-year colleges and universities for upper-division coursework in the study of information systems, their representation, architecture, and implementation. Computer Science is the study of the methods by which data is accessed, stored and retrieved, including representational computation, programming languages, algorithmic modeling, and software design, testing and development. Student in the Computer Science program study and apply their knowledge of mathematics, physics and logic to solve a variety of problems using current technology. Coursework includes programming languages and concepts, systems analysis, mathematics, physics, computer hardware and data structures.

The program is suited to the needs of students who will complete their education at Chaffey College with an associate degree, as well as those students who will complete their Chaffey associate degree and then transfer to a four-year institution to complete their bachelor's degree. Successful completion of the Associate in Science in Computer Science for Transfer guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree in preparation to pursue a career in the field of computer science.

CAREER AT A GLANCE:

HOW DO I KNOW IF THIS MAJOR IS FOR ME?

- You enjoy using data to solve problems
- You want to learn about computer software and hardware
- You pay close attention to details and have strong critical thinking skills
- You enjoy collecting data
- You like making decisions
- You want to create new technology

Use Focus2Career on your MyChaffey portal to learn more about careers and majors that fit you best.

WHERE CAN I WORK?

Scientific Research Services	Educational Institutions
City/County Offices	Software Publishers
Federal/State Government	Non-Profit Organizations
Small Businesses	Computer Design Services
Internet Access Providers	

For more information visit: www.labormarketinfo.edd.ca.gov/OccGuides

HOW DO I GET STARTED?

- Start taking introductory computer science and mathematics courses
- Apply for entry level positions in reception, data entry, or customer service with employers where you would like to promote
- Job shadow and conduct informational interviews with professionals in positions you wish to have
- Update your resume to include technical and classroom experiences
- Attend university campus tours and visit the Transfer Center to decide where you want to transfer

WHAT CAN I DO WITH THIS ASSOCIATE DEGREE?

<i>Position Title</i>	<i>CA Median Salary</i>
Computer Support Technician	\$59,430
Web Developer	\$76,880
Computer Network Support	\$72,080
Systems Specialist	\$72,080

WHAT CAN I DO WITH HIGHER EDUCATION AND ADDITIONAL TRAINING?

<i>Position Title</i>	<i>CA Median Salary</i>
Computer Research Scientist	\$123,130
Information Researcher	\$123,130
Computer Systems Analyst	\$123,130
Quality Assurance Analyst	\$50,180
Systems Architect	\$94,070
Systems Developer	\$121,210
Information Security Engineer	\$74,810
Computer Security Analyst	\$108,390
University Professor	\$99,640
Software Developer	\$121,210
Computer Programmer	\$93,620
HS Teacher	\$77,980
Network Administrator	\$92,290
Network Architect	\$125,190
Database Analyst	\$95,500
Database Programmer	\$95,500
Research Director	\$138,190

For more information about careers, education and training requirements, salary data, and job outlooks visit www.onetonline.org

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MAJOR AND COURSE REQUIREMENTS:

To obtain the Computer Science AS-T degree, students must:

- Complete all the major requirements listed below with grades of C or better.
- Complete a minimum of 60 CSU-transferable units with a grade point average (GPA) of 2.0 or better.
- Complete either the California State University General Education Breadth pattern (CSUGE) or the Intersegmental General Education Transfer Curriculum (IGETC).

LEGEND: G=Grade IP=In Progress N=Need **Bold: Prerequisites** Plain Text: No Prerequisites

<i>Major Requirements for the Associate in Science for Transfer Degree:</i>		Grade	IP	Need	Units
COMPSCI 1	Programming Concepts and Methodology I				3
COMPSCI 2	Programming Concepts and Methodology II				3
COMPSCI 3	Computer Architecture and Organization				3
COMPSCI 4	Discrete Structures				3
MATH 65A	Calculus I				4
MATH 65B	Calculus II				4
PHYS 45	Physics for Scientists and Engineers I				5
PHYS 46	Physics for Scientists and Engineers II				5

Units for major: 30

Student Name: _____

ID#: _____

Date: _____

Counselor: _____

		IGETC
	General Education	37
	Total units that may be double counted	7
	Elective (CSU transferable) units	0
		60

COUNSELOR NOTES:

\$46 per unit for CA Residents
