Computer Science Department

DEGREES

Computer Science (AS-T)

COURSES:

CS (Computer Science)

CONTACT INFORMATION:

School of Applied Technology and Business

Building: 500 Room 509
Phone Number: (707) 864-7229
Fax Number: (707) 864-7190

Dean: Lisa Neeley

Administrative Assistant: Jill Crompton

Faculty Contact: Mark Berrett

P.A.C.E. - INDUSTRIAL AND APPLIED TECHNOLOGY - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...
- ...desires to work hands-on with objects, machines, tools, plants, or animals?
- ...enjoys work and play outside, including use your physical or athletic abilities?
- ...likes to follow directions to organize, plan and complete a project or task?
- ...is interested in attaining employment as soon as possible?

P.A.C.E. - SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...
- ...desires to observe, learn, analyze, evaluate, or solve problems?
- ...enjoys to question and explore physical or biological happenings?
- ...likes to work hands-on with objects, machines, tools, plants, or animals?
- ...is interested in math and/or thinking analytically to solve complex problems?

Computer Science

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

Program Description
Successful completion of this major will assure competence in computer science through programming and basic data structures, providing an adequate background for employment in many computer system and technology areas as well as providing a firm foundation for students planning to pursue a baccalaureate degree in Computer Science and related disciplines.

Associate in Science for Transfer Degree
The Associate in Science for Transfer is especially appropriate for students who plan to complete a bachelor's degree in Computer Science at a CSU campus. Students completing an AS-T 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 the AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree also prepares students for Computer Science degree programs at other four-year institutions, but does not come with the same guarantees. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

To earn the Associate in Science in Computer Science for Transfer, a student must:
1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   a. The Intersegmental General Education Transfer Curriculum (IGETC) requirements.
   b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes
Students who complete the Associate in Science in Computer Science for Transfer will be able to:

1. Analyze, document and construct a solution to a problem by applying appropriate computer science concepts and ideas.

2. Effectively communicate solution(s).

3. Demonstrate their ability to program in at least one programming language.

REQUIRED COURSES	Units
CIS 020 Assembly Programming	3
CIS 021 Discrete Structures for Computer Science	3
CIS 022 Introduction to Programming	3
CIS 023 Data Structures and Algorithms	3
MATH 020 Analytic Geometry and Calculus I	5
MATH 021 Analytic Geometry and Calculus II	5
PHYS 006 Physics for Science and Engineering	5
One Biology course	5
Required Major Total Units	**32**

Biology (select one course)	Units
BIO 002 Cell and Molecular Biology	5
BIO 003 Evolution, Ecology, & Biodiversity	5