

Employment Outlook

Computer science jobs are distinguished by the higher level of theoretical expertise and innovation applied to complex problems and the creation or application of new technology. Graduates are prepared to work in a range of positions, from entry-level computer support specialists who provide hardware and software assistance as part of an IT department to web developers who design, create, maintain, troubleshoot and enhance technical performance for web sites.

The Associate of Science degree with a specialization in Computer Science could help you get started in a web-based online career as a web developer, a position with a median annual wage in the low \$60s. The web development field is also in demand it is projected to see more than 28,000 new positions by 2022.

21%

From 2012-2022 jobs in Computer Science are expected to increase by 21%

In 2012 there were 104,429 job openings related to Computer Science. That same year, 18,831 students completed programs in Computer Science.

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Associate of Science in Computer Science

LFCC
Computer Science

**Providing students the
opportunity to obtain
the competencies need
to succeed in the field
of computer science**



Associate of Science Computer Science

PURPOSE:

The Associate of Science degree program with a specialization in computer science is designed for students who plan to transfer to a four-year college or university to complete a baccalaureate or higher degree program in computer science, and pursue careers in fields such as computer software, applications and systems development and engineering.

LEARNING OUTCOMES:

A successful computer science graduate is expected to:

1. Demonstrate understanding of the field of computing, both as an academic discipline and as a profession within the context of society;
2. Demonstrate understanding of the theoretical foundations of the field of computing;
3. Demonstrate knowledge of the essential elements of computer information systems and computer science;
4. Apply knowledge of computing and information systems to specific problems and produce solutions;
5. Demonstrate an appreciation for the ethical and societal issues associated with the computing field;
6. Demonstrate the capability for staying current and, more generally, for achieving ongoing self-education in the computing discipline;
7. Use current programming languages, software development tools, software systems, database systems, multimedia systems, and common-place computing platforms.

TRANSFER OPPORTUNITIES:

Students enrolling in this program with plans to transfer to a four-year college or university should explore opportunities with their faculty advisor and the planned four-year institution.

SAMPLE ACADEMIC PLAN

Course #	Title	Credits
First Semester		
ENG 111	College Composition I	3
MTH 173	Mathematics	3
SDV 100	College Success Skills	1
CSC 200	Introduction to Computer Science	3
HIS	History Elective	3
	Social Science Elective	3
Second Semester		
ENG 112	College Composition II	3
MTH 174	Mathematics	3
CSC 201	Computer Science I	4
	Humanities/Fine Arts Elective	3
Third Semester		
ENG	Literature Elective	3
CSC 202	Computer Science II	4
PED/HLT	Physical Education or Health	1
	Science with Laboratory	4
CST	Communication Elective	3
Fourth Semester		
CSC 205	Computer Organization	3
	Social Science Elective	3
	Approved STEM Elective	3
	Science with Laboratory	4
	Approved STEM Elective	3

See complete degree requirements in college catalog for course descriptions and prerequisites

Courses and total credits subject to change

Throughout the AS in Computer Science program students use computers with diverse software tools to solve complex computational problems. Take advantage of an outstanding classroom challenges as you master the curriculum, based on the Association for Computing Machinery's recommendations. Explore algorithms, high level languages, and real-world challenges in this exciting computer science major.

What you'll study

Professors regularly upgrade their courses to reflect constant changes within this evolving industry. With a practical approach, you'll gain insight in nine areas: algorithms and data structures, architecture, artificial intelligence, database and information retrieval, human-computer interaction, numerical and symbolic computation, operating systems, programming languages, and software methodology and engineering.

How you'll learn more

By emphasizing hands-on and research experiences, your professors bring the coursework to life. Beyond coding, you'll integrate theory, abstraction, and design into your practical projects. You'll also be challenged to bridge the gap between hardware and software issues.

Where it can take you

Computer Programmer. System Analyst. Mobile App Creator and so much more. Apply your skills across a range of potential career paths, and become the reliable computing professional every business and organization needs. With a degree in computer science, you'll be ready to advance in government, higher education, and across the high-tech industry.

