



# What Can I Do With a Major in... Computer Science

## What is Computer Science...

Computer science is a discipline that spans theory and practice. It requires thinking both in abstract terms and in concrete terms. The practical side of computing can be seen everywhere. Nowadays, practically everyone is a computer user, and many people are even computer programmers. Getting computers to do what you want them to do requires intensive hands-on experience. But computer science can be seen on a higher level, as a science of problem solving. Computer scientists must be adept at modeling and analyzing problems. They must also be able to design solutions and verify that they are correct. Problem solving requires precision, creativity, and careful reasoning. Computer science also has strong connections to other disciplines. Many problems in science, engineering, health care, business, and other areas can be solved effectively with computers, but finding a solution requires both computer science expertise and knowledge of the particular application domain. Thus, computer scientists often become proficient in other subjects. Finally, computer science has a wide range of specialties.

## Potential Employers

- ❖ Existing Web Pages
- ❖ Schools
- ❖ Government Agencies
- ❖ Mass Media Industries
- ❖ Intelligent Information Systems
- ❖ Federal Investigation Agencies
- ❖ Research Data Bases
- ❖ Information Centers
- ❖ Customer Service
- ❖ IT
- ❖ Web Design Companies

## Possible Job Titles

- ❖ Software Engineer
- ❖ Demographer
- ❖ Statistician
- ❖ Artificial Intelligence Programmer
- ❖ Investment Manager
- ❖ Data Processing Manager
- ❖ Database Manager
- ❖ Software Development Specialist
- ❖ Web Designer
- ❖ Robotics Programmer

- ❖ Satellite Communication Specialist
- ❖ Mathematician
- ❖ Production Manager
- ❖ External Auditor
- ❖ Financial Auditor
- ❖ Technical Support Representative
- ❖ Computer Engineer
- ❖ Computer/Marketing Sales Representative
- ❖ Value Engineer
- ❖ Rate Analyst

- ❖ Quality Assurance Analyst
- ❖ Network Programmer
- ❖ Systems Analyst
- ❖ Software Support Specialist
- ❖ Underwriter
- ❖ Hydrologist
- ❖ Weight Analyst
- ❖ Information Scientist
- ❖ Aerospace Engineer
- ❖ Teacher: Science/Math/Computers

# How This Major Helps You Move Forward:

## Skills Learned in This Major:

- ❖ Strong Data Structures and Algorithms skills
- ❖ Be calm in stressful environments
- ❖ Read and write a lot of codes
- ❖ Open and assemble the components of a computer - know what each component does and how they fit in together
- ❖ Learn how computer networks work, create a basic usable chat application
- ❖ Basics of security, vulnerabilities and cryptography

## Additional Information can be found at:

[www.assist.org](http://www.assist.org)

[www.salary.com](http://www.salary.com)

[www.uncw.edu/career/WhatCanIDoWithaMajorIn.html](http://www.uncw.edu/career/WhatCanIDoWithaMajorIn.html)

[www.cacareerzone.org](http://www.cacareerzone.org)

[www.lamission.edu/careercenter](http://www.lamission.edu/careercenter)

## CSU/UC Related Transfer Degree Options:

- ❖ **CSUN:** Computer Science B.S., Computer Engineering B.S., Computer Information Technology B.S.
- ❖ **UCLA:** Computer Science B.S., Linguistics and Computer Science B.A., Computer Science and Engineering B.S.
- ❖ **UCI:** Computer Science and Engineering, B.S., Computer Science, B.S, Computer Engineering, B.S., Computer Game Science, B.S.)
- ❖ ... and more!

Go to [www.assist.org](http://www.assist.org) to see universities that offer these majors

## CSU/UC Graduate Degree Options:

- ❖ CSUN: Computer Science MS
- ❖ UC Irvine: Software Engineering MS/PhD
- ❖ UCLA: Bioinformatics MS/PhD

This is **general information**. For specific information on majors and careers please see a counselor in the Career Center – Claudia Ramirez (818)833-3403 ; [careercenter@lamission.edu](mailto:careercenter@lamission.edu)