

What can I do with a degree in... Computer Science

COLLEGE OF
**ARTS &
SCIENCES**
Career Services

The Computer Science degree gives you the background to learn programming and computing skills to prepare you for software or computer programming. The program emphasizes the software or programming aspects of computing, with research directed toward applied computing. Most of the required computer classes require extensive programming using languages such as JAVA, UNIX, C and C++. The Computer Science degree also prepares students for a Master's or Ph.D. degree in Computer Science. The department also offers a Master's and a Ph.D. degree.

The Department web site is: <http://www.cs.okstate.edu/>

Computer Science majors develop the following skills:

- Problem-solving ability, recognizing levels of abstraction in software, hardware systems, and multimedia
- Practical skills: building and using database management systems and other software tools
- Programming
- Using existing software to carry out a variety of computing tasks, such as creating a user interface
- Being aware of the uses to which computers are put, recognizing issues to do with security & safety
- Looking at innovative ways of using computers, creating tools, providing tools support, etc.
- Communicating in writing, giving effective presentations and product demonstrations, and being a good negotiator (both in traditional environments and electronically)
- Recognizing the challenges and opportunities of keeping skills current
- Literacy/fluency in computing; organizing all your professional information effectively

Regardless of your major, a university education enables you to develop a wide range of valuable transferable skills including: Information and Communication Skills; Thinking, Planning & Organizational Skills; Teamwork & Management Skills

Depending on your desired career path, additional skills may need to be developed to be competitive in the marketplace upon graduation. Make an appointment with a career consultant to design your individual career development plan.

College of Arts & Sciences Career Success E-Guide

Provided to all new, incoming students as an introduction to career planning process

If you don't have an E-Guide...Get one!!!

Visit the A&S Career Services Office

Questions?

College of Arts & Sciences Career Services
Student Success Center, LSE 2nd Floor
Stillwater, OK 74078-3016

Visit the A&S website to make an appointment to see a Career Consultant @
<http://ascareers.okstate.edu>

Build Skills Beyond the Classroom:

- Join related clubs, professional associations, & organizations
- Athletics/Sports
- Military
- Part-time Employment (Summer/Work Study)
- Internships/Job Shadowing
- Travel/Work Abroad
- Volunteer/Community Service

Job & Internship Web Sites

- **Computer World** <http://www.computerworld.com>
- **Tech-Centric** <http://www.tech-centric.net>
- **Techies** <http://www.techies.com>
- **Just Tech Jobs** www.justtechjobs.com
- **Internet jobs** <http://www.internetjobs.com>
- **Jobs for Programmers** <http://www.prgjobs.com>
- **IT Careers.com** <http://itcareers.careercast.com>
- **Cobol Jobs** <http://www.coboljobs.com/public/default.asp>
- **Career Marketplace** <http://www.careermarketplace.com>
- **Developers.Net** - <http://www.developers.net>
- **High Tech Jobs Online** <http://www.dice.com>
- **Java Jobs** <http://javajobs.com>
- **Jobs in C++** <http://www.cplusplusjobs.com/>
- **Computerwork.com** <http://www.computerwork.com>
- **Society for Technical Communication**
<http://www.stc.org/index.asp>
- **CMP Technology Network job postings**
<http://www.cmpnet.com/jobs/joblists.htm>
- **Web Programming Jobs**
<http://www.webprogrammingjobs.com/public/default.asp>
- **Association for Computing Machinery (ACM)**
http://www.acm.org/member_services/career/careerline.html
- **Computing Research Association** www.cra.org
- **MonsterTRAK** <http://www.monstertrak.com>
- **DICE** <http://www.dice.com>
- **Computer Jobs** www.computerjobs.com
- **RTP Preferred Jobs** <http://rtp.preferredjobs.com/index2.asp>
- **GameJob** www.gamejob.com
- **GameRecruiter** www.gamerecruiter.com
- **Software Jobs** www.softwarejobs.com
- **IEEE's Careers site** www.careers.ieee.org
- **Apple** www.apple.com
- **Dell** <http://dellapp.us.dell.com/careers/>
- **Microsoft** www.microsoft.com/jobs

Sample Careers for Computer Science Majors

Potential Career Paths

The work of computer scientists falls into three categories: designing and implementing software; devising new ways to use computers; and developing effective ways to solve computing problems.

Designing and implementing software

This refers to the work of software development which has grown to include aspects of web development, interface design, security issues, mobile computing, and so on. This is the career path that the majority of computer science graduates follow. While a bachelor's degree is generally sufficient for entry into this kind of career, many software professionals return to school to obtain a terminal degree. Career opportunities occur in a wide variety of settings including large or small software companies, large or small computer services companies, and large organizations of all kinds (industry, government, banking, healthcare, etc.).

Devising new ways to use computers.

This refers to innovation in the application of computer technology. A career path in this area can involve advanced graduate work, followed by a position in a research university or industrial research and development laboratory; it can involve entrepreneurial activity such as was evident during the dot-com boom of the 1990s; or it can involve a combination of the two.

Developing effective ways to solve computing problems.

This refers to the application or development of computer science theory and knowledge of algorithms to ensure the best possible solutions for computationally intensive problems. As a practical matter, a career path in the development of new computer science theory typically requires graduate work to the Ph.D. level, followed by a position in a research university or an industrial research and development laboratory.

According to the U.S. Department of Labor, Bureau of Labor Statistics, computer scientists are expected to be among the fastest growing occupations through 2014. Employment of these computer specialists is expected to grow much faster than the average for all occupations as organizations continue to adopt and integrate increasingly sophisticated technologies.

The College of Arts & Sciences Career Services offers:

**Arts & Sciences 4111
Job Search Strategies Course**
(AS 4111) 1 Credit Course

Arts & Sciences Majors (for Juniors & Seniors only)
For Course description visit the Arts & Sciences
Career Services website: <http://ascareers.okstate.edu>

Sample of Related Occupations

Analyst	Associate Consultant	Business Applications Consultant
Chief Information Officer	Computer Operator	Computer Serviceperson
Consultant	Data Dictionary Specialist	Data Processing Manager
Database Administrator	Database Analyst	Documentation Specialist
EDP Auditor	End-User Computer Manager	Equipment Manufacturer Rep.
Info Systems Analyst	Intermediate Programmer	Librarian
Micro Programmer	Network Administrator	Office Automation Specialist
PC Sales Representative	Programmer	Programmer Analyst
Project Manager	Records Manager	Sales Rep.
Scheduling/Control Specialist	Security Officer	Senior Consultant
Senior Project Leader	Service Sales Representative	Software Sales Representative
Systems Analyst/Engineer	Technical Analyst	Technical Evaluator
Technical Writer	Telecommunications Specialist	Training & Standards Manager
User Interface Specialist		

Types of Employers

Computer Firms	Libraries
Consulting Firms	Manufacturing Companies
Government Agencies	Media Firms
Health Care Industry	Non-Profit Organizations
Higher Education	Publishing Companies
Hospitality Organizations	Research Organizations
Insurance Companies	Telecommunications Firms
Investment Firms	Utilities
	Wholesale Retailers

For further research on career & employment options, utilize any internet search engine. The following websites are a great place to begin:

www.monstertrak.com www.mymajor.com
www.quintcareers.com www.monster.com
www.careerbuilder.com www.bls.gov/oco
www.experience.com www.jobcentral.com