Computer Science

The computer science degree provides you the background, knowledge, and skills to design and implement software systems or computer programs. The program emphasizes the software of programming aspects of computing, with research directed toward applied computing. Most of the required computer science classes require extensive programming using languages such as JAVA, UNIX, C and C++. This program also prepares students to pursue Master’s or Ph.D. degrees.

Computer Science majors develop the following skills:

- Problem Solving: recognizing levels of abstraction in software, hardware systems, and multimedia
- Practical skills: building and using database management systems and other software tools
- Programming skills: Use existing software to carry out a variety of computing tasks, such as creating a user interface
- Awareness to the many uses of computers, recognizing issues to do with security and safety
- Looking at innovative ways of using computers, creating tools, and providing tools for support
- Communicating in writing, giving effective presentation and product demonstrations, and being a good negotiator
- Recognizing the challenges and opportunities of keeping skills current
- Literacy/fluency in computing: organizing all profession information effectively

Job and Internship Websites

- Association for Computing Machinery: http://jobs.acm.org
- Central Intelligence Agency (CIA): https://www.cia.gov/careers
- Computer World: http://www.computerworld.com/
- Cobol Jobs: http://www.mycoboljobs.com/
- College Monster: http://college.monster.com/?wt.mc_n=monstertrak
- Computer work: http://computerwork.com
- Computer jobs: http://computerjobs.com
- Computing Research Association: http://www.cra.org/
- Dice: http://www.dice.com/
- Exxon Mobile: http://exxonmobil.com/USA-English/HR/careers_campus_bach_mast_it.aspx
- Facebook: https://www.facebook.com/careers/teams/it
- Fortune 500 computer science internship programs: http://www.computersciencedegreehub.com/internships-for-tune-500-companies/
- Game Recruiter: http://www.gamejob.com/
- Google: http://www.google.com/about/jobs/teams/ops-support/
- Jobs in C++: http://www.cplusplus.com/forum/jobs/
- Just Tech Jobs: http://www.justtechjobs.com/
- Society for Technical Communication: http://jobs.stc.org/home/index.cfm?site_id=360
- Walmart: http://jobs.walmart.com/

Gamers of OSU
Association for Computing Machinery
Information Security and Assurance Club
Oklahoma Women in Information Technology
OSU Google Developers Group

A complete list of student clubs and organizations can be found online at: https://campuslink.okstate.edu

College of Arts & Sciences Career Services
213 Life Science East
Tel: 405 744 5658

For appointments and resources: http://cascareers.okstate.edu
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, and mobile computing. 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 career path, many software professionals return to school to obtain a terminal degree. Career opportunities occur in a wide variety of settings including software companies, computer service companies, and organizations of all kinds in both large and small sizes.

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 1990's; or it can involve a combination of the two.

IT Professional: Work for a corporation, private school or government agency directing the entire IT program.

Software Engineer: Help develop the software programs that are used around the world using programming languages.

Developing Effective Ways to Solve Computing Problems: This refers to the application and development of computer science theory and knowledge of algorithms to ensure the best possible solutions for computationally intensive problems. 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.

College Professor: Instruct classes as to the basics of computer coding languages. You will also help classes understand how to learn the latest software programs. One of the benefits of this position is that you can also pursue continuous research.

Computer Systems Analyst: Complete regular maintenance check-ups for a business. The purpose of a computer systems analyst is to make sure that a business's computer system is in full working order and is free of cyber threats. You will regularly check to see whether there are any viruses that have affected the computer platform of a business. It is also essential for you to make sure that a computer system is running at its optimum speed.

Computer Programmer: Directly influence the types of computer programs that are released onto the market. You will help to develop word-processing software, gaming software and virus protection software. You will also analyze consumer trends to understand the needs that consumers have for computer programs on the market.

Job Titles

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<th>Data Processing Manager</th>
<th>Senior Consultant End User</th>
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<tr>
<td>Software Sales Rep.</td>
<td>Telecommunications Specialist</td>
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<tr>
<td>.NET/JAVA/ Web Developer</td>
<td>Application Support Specialist</td>
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<td>System Administrator</td>
<td>Technical Support Engineer</td>
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<tr>
<td>Computer Operator</td>
<td>Database Analyst</td>
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<td>Programmer Analyst</td>
<td>User Interface Specialist</td>
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<td>Chief Information Officer</td>
<td>Project Manager</td>
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<td>Technical Writer</td>
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<td>Computer Science Service</td>
<td>Web Service Developer</td>
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<td>Technical Evaluator</td>
<td>Reference Data Analyst</td>
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<td>Data Dictionary Specialist</td>
<td>Network Technician</td>
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<tr>
<td>Technical Analyst</td>
<td>Data Photographer</td>
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<td>Database Administrator</td>
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<td>Records Manager</td>
<td>Support Technician</td>
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<td>Documentation Specialist</td>
<td>Logistics Engineer</td>
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<td>Security Officer</td>
<td>EDP Auditor</td>
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<td>Technical Consultant</td>
<td>Analyst</td>
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<td>Network Administrator</td>
<td>Info Systems Analyst</td>
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<td>Quality Assurance Analyst</td>
<td>PC Sales Representative</td>
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<tr>
<td>Systems Analyst/Engineer</td>
<td>Application Developer</td>
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<td>Scheduling/Control Specialist</td>
<td>Computer Manager</td>
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<td>Training &amp; Standards Manager</td>
<td>Business Applications Consultant</td>
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Types of Employers

- Computer firms
- Consulting firms
- Energy Industry: Oil and Gas Companies
- Hospitals and Health Care Services
- Higher Education
- Hospitality Organizations
- Banks and Financial Services
- Insurance Companies
- Investment Firms
- Manufacturing Companies
- Media Firms
- Non-Profit Agencies
- Publishing Companies
- Research Organizations/Centers
- Telecommunication Firms
- Utility Companies
- Software and Computer Retailers
- Technology Development Companies
- Accounting and Audit Firms
- Law Offices and public services
- Distribution and logistic businesses
- County and State Government Agencies
- Web and Programming Providers
- Shipping and Receiving Companies
- Software Development Companies