Bachelor of Science: Computer Science
Minor: Computer Science, Information Technology, Game Development and Web Development
Certificate: Cybersecurity Certificate

The Bachelor of Science degree in Computer Science is a traditional computer science degree. It focuses on the fundamentals for computer science and application development. Students who receive a degree in Computer Science may choose to work in a variety of areas after graduation, software/application developers, systems analysts, quality assurance analysts, and software support specialist, or go on to graduate school. Employers recommend one or more internships to be successful and competitive when entering this field.

Career types associated with Computer Science
(Is this a good fit for you? Are you a…)
- Investigative - “Thinker”
- Conventional - “Organizer”
- Social - “Helper”

Common interests of Computer Science majors
- Working with computers, software, gaming
- Troubleshooting and repairing electronic equipment
- Completing puzzles or playing games of strategy
- Solving logic problems
- Participating in Computer Science or related clubs
- Working part-time or volunteering in a technology store/department
- Reading computer or technology publications

Related skills, values, and qualities
- Ability to adapt to constant change
- Proficiency in reading, writing, and thinking, questioning, and analyzing
- Proficiency in problem solving
- Ability to think logically and organize
- Proficiency with computers
- Aptitude for accuracy and detail
- Strong math background
- Ability to work under pressure

Courses Computer Science majors typically enjoy
- Algebra, Trigonometry, Calculus
- Computer Programming
- Computer Science
- Criminal Justice
- Information Technology
- Networking
- Cyber Security
- Web Development

For more information about the major
Contact the Computer Science and Information Technology Department, 256 Old Main, 610-683-4340, or visit www.kutztown.edu/cs
CSITDepartment@kutztown.edu

KU Majors related to Computer Science
Mathematics, Physics, Communication Design, Applied Digital Arts, Criminal Justice

For More Information on Computer Science/IT careers or to speak to a Career Counselor, contact KU Career Development Center
113 Stratton Administration Center * 610-683-4067 * careerhelp@kutztown.edu * www.kutztown.edu/careercenter
Sample Career Titles

Computer Science majors can be found working in a wide variety of career fields. Here are just some career titles that may be of interest. Please note that some jobs may require further education and training.

To learn more about these careers, visit http://online.onetcenter.org or www.bls.gov/oco.

Application/Programmer
Communications Specialist
Computer Consultant
Computer Engineer
Computer Facilities Manager
Computer Installation Specialist
Computer Marketing/Sales
Computer Operator
Computer Security Analyst
Computer Service Technician
Computer Systems Analyst
CQI Production Manager
Cryptographer/Cryptologist
Cybersecurity
Data/Database Analyst
Data Communications/Security Analyst
Data Scientist
Distribution Manager
Educator/Trainer

Employee Relations Specialist
End-User Computing Manager
Engineering Lab Technician
Environmental Technologist
Hardware Sales/Service Person
Information Scientist
Information Systems Developer
Information Systems Manager
Information Technology Manager
Internet Developer
Market Analyst
ISO Specialist
LAN/Logistics Manager
Network Administrator/Manager
On-Line Services Manager
Operating Systems Programmer
Operations Manager/Analyst
PC Support Specialist
Product Development/Line Manager
Product Forecaster/Estimator
Production Scheduler/Planner
Production Support Specialist
Programmer: Engineering & Sci.
Quality Assurance Analyst
Software Development Specialist
Software Engineer/Engineer
Software Package Developer
Software Salesperson
Software Support Tech/Specialist
Systems Administrator/Analyst
Systems Consultant
Systems Programmer
Systems Technical Manager
Technical Writer
Telecommunications Manager
User Support Analyst
Web Designer
Handshake is the primary online resource for preparing and connecting students and alumni with employers. www.kutztown.edu/handshake

Common Internship Sites and Employers

Computer Science majors often find internships and employment in the following fields/industries.

- Banks & Investment Firms
- Business & Industry
- Colleges/Universities
- Consulting Firms
- Federal, State & Local
- Healthcare
- International Agencies
- Manufacturing
- Military
- Research & Development
- Telecommunications

Useful Websites for Computer Science Majors

Whether you are researching related career fields, applying for internships or jobs, or planning to join a professional association, these websites are for you!

<table>
<thead>
<tr>
<th>Industry/Employment Information</th>
<th>Professional Associations</th>
<th>Related Area Employers</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="http://www.computerjobs.com">www.computerjobs.com</a></td>
<td>Association for Computing Machinery <a href="http://www.acm.org">www.acm.org</a></td>
<td>Andesa Services</td>
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<tr>
<td>Computer Work</td>
<td>Association of IT Professionals <a href="http://www.aitp.org">www.aitp.org</a></td>
<td>Armstrong World Industries</td>
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<td>Dice</td>
<td>Computing Research Association <a href="http://www.cra.org">www.cra.org</a></td>
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<td>IEEE</td>
<td>Instrumentation, Systems and Automation Society <a href="https://www.isa.org/">https://www.isa.org/</a></td>
<td>Clark Associates</td>
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<tr>
<td>jobs.ieee.org</td>
<td>Institute of Electrical &amp; Electronics Engineers <a href="http://www.ieee.org">www.ieee.org</a> (job postings too)</td>
<td>Computer Aid Inc</td>
</tr>
<tr>
<td>Internet Society</td>
<td>International Assoc. for Technology in Education <a href="http://www.iste.org">www.iste.org</a></td>
<td>Deloitte US Delivery Center</td>
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<td><a href="http://www.internetsociety.org">www.internetsociety.org</a></td>
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<td>East Penn Manufacturing</td>
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<td>Just Tech Jobs</td>
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<td>Fidelity Information Services</td>
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<td><a href="http://www.justtechjobs.com">www.justtechjobs.com</a></td>
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<td>Gateway Ticketing</td>
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<td>Tech America</td>
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<td>Hershey Entertainment &amp; Resorts</td>
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<td><a href="http://www.techamerica.org">www.techamerica.org</a></td>
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<td>Kutztown University</td>
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<td>LinkedIn Jobs</td>
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<td>Lehigh Valley Health Network</td>
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<td><a href="http://www.linkedin.com/jobs">www.linkedin.com/jobs</a></td>
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<td>LeverX</td>
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<td>Computer Science.org</td>
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<td>Listrak Inc.</td>
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<td><a href="http://www.ComputerScience.org">www.ComputerScience.org</a></td>
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<td>Liquid Interactive</td>
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<td>St. Luke's University Health Network</td>
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Building Your Resume for a Career in Computer Science

Building a strong resume for your career field starts long before you ever start your job search. Employers want to hire graduates who not only have the necessary educational background but also have experience applying that knowledge.

Caitlin Computer Science
acomp000@live.kutztown.edu, www.linkedin.com/in/caitlin, 555-555-5555

PROFILE
Interested in working for a telecommunications company as a Computer Technician.

TECHNICAL COMPETENCIES
• Operating Systems: Windows, Linux
• Programming Languages: C++, Java, Python
• Web Languages: HTML, JQuery, PHP

QUALIFICATIONS
• Fluent in Spanish and English
• Experience communicating with diverse populations
• Strong interpersonal and problem solving skills

EDUCATION
B.S. Kutztown University of Pennsylvania
Major: Computer Science
GPA: 3.73
Dean’s List
Fall 20xx-Spring 20xx

Related Courses: Data Structures, Network Programming, Programming Languages, Computer Science I and II, Operating Systems

INTERNSHIP & EXTERNSHIP EXPERIENCE
Computer Aid, Inc.
Allentown, PA
Spring 20xx

• Assisted with code development for tax processing system
• Tested and debugged various applications
• Created code documentation
• Presented group code summary project at annual company seminar

Student Intern
Kutztown, PA
Sept 20xx

• Observed process of code development and troubleshooting techniques
• Attended “Tech Talk” focused on analysis and design for new applications

RELATED EXPERIENCE
Kutztown University ResNet Helpdesk
Kutztown, PA
Fall 20xx-Present

Student Support Staff Member
Fall 20xx-Present

• Assist with Adware/Spyware and Trojan removal
• Perform anti-virus installation, system updates and system restorations
• Complete troubleshooting tasks related to data recovery and printer/scanner issues
• Aid in security procedures such as student password changes
• Communicate effectively with ResNet staff and students

CAMPUS INVOLVEMENT & PROFESSIONAL DEVELOPMENT
Member, Kutztown Technology Association
Fall 20xx-Present

Member, Phi Kappa Phi National Honors Fraternity
Fall 20xx-Present

Member, American Computer Scientists Association (ACSA)
Fall 20xx-Present

Volunteer, Special Olympics, Kutztown University
Spring 20xx & 20xx

Recipient, Career Success Certificate, Kutztown University Career Development Center
Spring 20xx

Recipient, Career Exploration Certificate, Kutztown University Career Development Center
Fall 20xx

WORK EXPERIENCE
Best Buy
Wyomissing, PA
Summers 20xx-20xx

Sales Consultant
• Answered technology-related inquiries regarding desktops, laptops and tablets
• Communicated with diverse staff to provide positive customer experience
• Resolved issues and complete customer returns

Learn more about your field and develop the necessary skills for employment by gaining hands-on experience through clinical practice.

Utilize summer breaks to acquire valuable experience via volunteer or employment opportunities related to your major.

Develop professionally through campus involvement and professional memberships. This illustrates responsibility, leadership abilities and time management skills.