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.
FOUR STEPS TO SUCCESS

1*ST YEAR
• Enroll in the Career Exploration Certificate.
• Attend info sessions to learn about career development and personal branding.
• Take a career assessment to identify and confirm interests.
• Get involved in campus clubs and organizations.
• Develop basic workplace skills through jobs or volunteer work.
• Talk with professors, family, and friends about career ideas.
• Conduct informational interviews with professionals working in fields of interest.
• Develop a relationship with your professors and faculty advisor.

2ND YEAR
• Meet with CDC career coach.
• Attend info sessions to learn about resume writing, and externships.
• Confirm your choice of major and consider options for double major or minor.
• Research careers of interest.
• Complete a job shadowing (externship) experience.
• Seek meaningful employment or volunteer work in a field related to your major.
• Explore options for undergraduate research and study abroad.
• Write a resume and have it reviewed by the CDC.
• Manage your online presence.

3RD YEAR
• Enroll in the Career Success Certificate.
• Complete an internship and/or undergraduate research.
• Attend info sessions about internships, interviewing, job search strategies, and grad school.
• Build a LinkedIn profile and continue to monitor your online presence.
• Complete a mock interview.
• Build skills through research projects, part-time employment, and volunteer work.
• Participate in employer panels, site visits & networking events.
• Attend internship & job fairs.
• Take on a leadership role in a student organization or work.
• Consider graduate school options and prepare for admissions tests.

4TH YEAR
• Attend your Senior Kick-off session and other info sessions to prepare for job search/grad school.
• Update your resume and LinkedIn profile.
• Create cover letter drafts.
• Gain experience through internships and/or undergraduate research.
• Secure references for job/grad school applications.
• Create your “30 second” commercial/elevator pitch.
• Meet with CDC to develop job search strategies.
• Research employers.
• Network with professionals through events and social media.
• Join a professional organization in your discipline.
• Attend the senior etiquette luncheon or dinner.
• Attend the senior etiquette luncheon or dinner.
• Participate in job fairs and on-campus interviewing.

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 Engineering Specialist
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
**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

Handshake is the primary online resource for preparing and connecting students and alumni with employers.  
www.kutztown.edu/handshake

**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!

**Industry/Employment Information**

- Computer Jobs  
  www.computerjobs.com
- Computer Work  
  www.computerwork.com
- Dice  
  www.dice.com
- IEEE  
  jobs.ieee.org
- Internet Society  
  www.internetsociety.org
- Just Tech Jobs  
  www.justtechjobs.com
- Tech America  
  www.techamerica.org
- LinkedIn Jobs  
  www.linkedin.com/jobs
- Computer Science.org  
  www.ComputerScience.org
- Production Hub  
  www.productionhub.com/jobs

**Professional Associations**

- American Society for Info Science & Technology  
  www.asist.org
- Association for Computing Machinery  
  www.acm.org
- Association of IT Professionals  
  www.aitp.org
- Association for Women in Computing  
  www.awc-hq.org
- Computing Research Association  
  www.cra.org
- Computer Society  
  www.computer.org
- Instrumentation, Systems and Automation Society  
  https://www.isa.org/
- Institute of Electrical & Electronics Engineers  
  www.ieee.org (job postings too)
- International Assoc. for Technology in Education  
  www.iste.org

**Related Area Employers**

- Air Products
- Andesa Services
- Armstrong World Industries
- B. Braun Medical Inc.
- Brenntag
- Brentwood Industries
- Clark Associates
- Computer Aid Inc
- Deloitte US Delivery Center
- East Penn Manufacturing
- Fidelity Information Services
- Gateway Ticketing
- Hershey Entertainment & Resorts
- Kutztown University
- Lehigh Valley Health Network
- LeverX
- Listrak Inc.
- Liquid Interactive
- Lutron Electronics
- Neo Pangea
- Olympus
- Oracle
- Penn Interactive
- Penske
- PPL Electric Utilities
- SAP
- St. Luke’s University Health Network
- Versum Materials
- Zulily
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
ecomp000@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

- 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
- Aide 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

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

For More Information on Computer Science 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