The field of computer science has rapidly progressed to encompass artificial intelligence, data science, and other innovations that will determine the future of our world.

Through the study of computing and important application domains, you’ll enhance your knowledge and expand your technology leadership responsibilities in organizations that design, develop, market, or utilize computing systems and new technologies.

As computer science continues evolving, you’ll be at the forefront of technical advancements that will impact how we interact with technology.

**PROGRAM BENEFITS**

- **Learn anywhere**, with programs available in Boston, Seattle, San Francisco, Silicon Valley, Vancouver, Toronto, and online.

- **Gain real-world experience** through Northeastern’s signature graduate co-op program.

- **Customize your learning path** with one of 11 specializations designed to meet your professional goals and interests.

- **Enter the Align Program** to get your master’s degree with no prior programming or computer science experience.

- **Available to international** students enrolled full time, subject to course and location availability.

**PROGRAM OUTCOMES**

Students who complete the program will:

- **Exhibit proficiency** in the design and maintenance of large application software.

- **Build familiarity with basic algorithms** and theoretical computer science principles.

- **Demonstrate ability** in advanced programming and software design materials.

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"Computer science is a very rapidly changing field. The industry moves fast, and the research areas move fast. We’re constantly thinking about where the field is going. That’s how we design our classes."

Olin Shivers, Professor, Khoury College of Computer Sciences

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**CURRICULUM OUTLINE**

- **Specializations**
  - Artificial Intelligence
  - Data Science
  - Game Design
  - Graphics
  - Human-Computer Interaction
  - Networks
  - Programming Languages
  - Security
  - Software Engineering
  - Systems
  - Theory

- **Required Courses (12 semester hours)**
  - Algorithms
  - Foundations of Software Engineering
  - Program Design Paradigm

- **Sample Electives (20 semester hours)**
  - Database Management Systems
  - Game Artificial Intelligence
  - Information Retrieval
  - Machine Learning
  - Network Security
  - Web Development

- **Total Degree Requirements (32 semester hours)**
  - Full-time students can complete this degree in two years.

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**LEARN MORE AND APPLY**

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Founded in 1898, Northeastern is a global research university and the recognized leader in experience-powered lifelong learning. Our world-renowned experiential approach empowers our students, faculty, alumni, and partners to create impact far beyond the confines of discipline, degree, and campus.

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Northeastern’s comprehensive array of undergraduate and graduate programs—in on-campus, online, and hybrid formats—lead to degrees through the doctorate in nine colleges and schools. Among these, we offer more than 140 multidisciplinary majors and degrees designed to prepare students for purposeful lives and careers.