

College of Computer and Information Science

Website (<http://www.ccs.neu.edu/undergraduate>)

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Computing has transformed the way people work and live, and its applications are limitless. Today, an understanding of computing is critical in business, healthcare, science, digital art, and other areas of our information-driven society. Computing knowledge and computing technology also contribute to resolving major issues in an increasingly complex world.

The College of Computer and Information Science offers undergraduate programs that combine a strong foundation in computing with the opportunity to acquire a deep knowledge of another discipline in which computing plays a critical role. The college offers undergraduate degree programs in computer science (BS and BA), data science (BS), information science (BS), and cybersecurity (BS); combined majors with business administration, cognitive psychology, biology, biochemistry, mathematics, physics, environmental science, health sciences, game development, music composition and technology, linguistics, communication, design, media arts, journalism, criminal justice, economics, English, history, philosophy, political science, and sociology; and a combined major in computer science and information science. The BS in computer science emphasizes strong technical competence in computer science, mathematics, science, and electrical engineering. The BA in computer science combines computer science with a broad-based liberal arts education. The BS in information science integrates studies in computer science, behavioral science, business, and social science. The BS in data science combines computer science, information science, mathematics, statistics, and probability theory into an integrated curriculum. The BS in cybersecurity provides the fundamental knowledge of computer science with an essential focus on experiential learning through security-related courses. The BS in computer science with a concentration in cyber operations extends the regular BS in computer science by requiring a significant number of courses in security and in networks both wired and wireless. This program is one of the initial four programs selected in 2012 by the National Security Agency as a National Center of Academic Excellence in Cyber Operations Program.

Academic Progression Standards

To progress to sophomore standing, students are required to earn:

- A minimum of 25 semester hours of credit
- A minimum overall and CS GPA of 1.800

- A grade of C or higher in First-Year Writing (ENGW 1111) or First-Year Writing for Multilingual Writers (ENGW 1102)

A deficit in any of these criteria after two semesters of enrollment will lead to student dismissal from CCIS and Northeastern.

Additional requirements

- Students are permitted two attempts to earn a minimum grade of C– in the following courses:
 - Discrete Structures (CS 1800)
 - Fundamentals of Computer Science 1 (CS 2500)
 - Fundamentals of Computer Science 2 (CS 2510)
- If a C– is not earned by the second attempt, a student will be dismissed from CCIS and Northeastern.
- If the following courses are required by the degree program, a minimum grade of C– is required:
 - Calculus for Business and Economics (MATH 1231)
 - Calculus and Differential Equations for Biology 1 (MATH 1251)
 - Calculus and Differential Equations for Biology 2 (MATH 1252)
 - Intensive Calculus for Engineers (MATH 1340)
 - Calculus 1 for Science and Engineering (MATH 1341)
 - Calculus 2 for Science and Engineering (MATH 1342)

Maintaining good standing

To remain in good academic standing and progress after the first year, students are required to fulfill:

- A minimum of 12 SH in each full-term semester (fall or spring)
- A minimum overall GPA of 2.000
- A minimum GPA of 2.000 in all CS/IS/DS courses
- A minimum GPA of 2.000 for business courses in the combined CS and business, IS and business, and cybersecurity and business majors (or the business portion of the combined major will be dropped)

Program Length

The College of Computer and Information Science prides itself on flexibility and a very supportive advising staff. Depending upon the number of entry-level/transfer credits, the academic program, and student planning, it is possible to complete the program within four years with at least one experiential experience and usually with two such experiences.