Computer Science B.A.

Major
Bachelor of Arts
Computer Science
Swenson College of Science and Engineering

The Computer Science B.A. is an interdisciplinary program that will produce computing professionals who have the necessary depth of expertise in computer science to have lifelong professional careers in the field. The program requires each student to gain knowledge and experience in the fundamentals of computer science, including computer organization and architecture, data structures and related algorithms, and programming languages.

In addition, it allows for significant course work in a second complementary discipline. Students who complete this degree will have enormous flexibility and opportunity in their future careers and education since there is no discipline that is not touched in significant ways by computer science.

Career Possibilities

The program requires each student to gain knowledge and experience in the fundamentals of computer science, including computer organization and architecture, data structures and related algorithms, and programming languages.

UMD graduates in computer science are currently working for a diverse array of organizations, from small software engineering companies in Duluth and high-tech corporations in the Twin Cities to international leaders such as Google, Amazon, and Microsoft.

Scholarships

We offer a variety of scholarships to many of the computer science students. They are all hosted by the Swenson College on one simple application.

Student Clubs

We have multiple computer science clubs on campus. The Association for Computing Machinery (ACM) Club is a professional membership group that explores the realm of technology.

Robotics at UMD is a club devoted to inspiring students in science and technology, from building and flying model aircraft to competing in national level battlebot competitions. The Software Development Club at UMD (DEV Club) works on a project whole sharing knowledge.

Why UMD

- Active learning environment
- Access to state-of-the-art instrumentation
- Focus on undergraduate teaching and research

Acquired Skills

- An understanding of the application of programming languages in computer systems
- Ability to design, develop, and analyze significant software systems
- Effective communication skills, both orally and in writing
across the collective languages of the groups membership.

Many of our students also participate in the Women in Computing and/or the Women in Engineering & Sciences. The Women in Computing club is focused on students networking with fellow women interested in computer science research and consider taking part in regional competitions where students can showcase their work. Women in Engineering and Science (WES) focuses on doing fun things with other women interested in the sciences.

Graduate Report

Recent UMD Graduates Job Placement Data & Employers

Here’s a sampling of positions Computer Science B.A. grads have attained six months to one year after graduation.

- Software Engineer - General Dynamics Mission Systems, Bloomington, MN
- Automation Engineer - Merrill Corporation, Minneapolis, MN
- Programmer - Saturn Systems, Duluth, MN
- Senior Big Data Engineer - Thomson Reuters, Eagan, MN
- Web Development & Administration - YMCA, Duluth Area Family, Duluth, MN

For more data see the Computer Science B.A. Graduate Follow-Up Report [1].

For ideas about Computer Science B.A. and other majors visit Career & Internship Services [2].