

## What is Computer Science?

Computer Science is concerned with the study of the hardware, software, and theoretical aspects of high-speed computing devices and the application of these devices to a broad spectrum of scientific, technological, and business problems. The curriculum gives students a basic understanding of computer science. After completing a required set of fundamental courses, students can arrange their subsequent work around one of several upper division emphases. These emphases allow concentrations within computer science. This should prepare a student for a variety of industrial, governmental, and business positions involving the use of computers, or for graduate work in the field.

## What are the major requirements?

Go to [www.catalogs.umn.edu/programs.html](http://www.catalogs.umn.edu/programs.html) and select “undergraduate majors.”

## How do I declare a Computer Science major?

You will be required to declare a major by the time you have completed 60 credits.

1. Talk with someone from the department: an adviser, a professor, or a teaching assistant to learn more about the major. You may also wish to talk with students who are already in the major.
2. Complete Math 1271, 1272, 2243, CSci 1901, 1902, and 2011 with an overall GPA of 2.4.
3. If you decide upon Computer Science as a major, fill out a petition form stating that you would like to be admitted to the Computer Science major. Attach current copies of your unofficial transcript and Academic Progress Audit System (APAS) report to your petition and turn it in at the Computer Science department office in Room 4-192, EE/CS Building.
4. You should follow the same procedure if you have already selected another major and wish to change to Computer Science or add it as another major.
5. If you decide to change your major, contact your CLA student community to learn more about your new major’s declaration process.

## What can I do with a major in Computer Science?

### Skills

Computer Science majors develop skills that are applicable to a wide variety of careers. These skills include:

- Technical knowledge and skills
- Analytical and problem solving skills
- Independent, self-motivated work ethic
- Ability to formulate clear and persuasive messages
- Ability to work well with diverse groups

### Employment

Common areas of employment for this major include but are not limited to:

## For more information:

### About the Computer Science major:

Undergraduate Advising  
4-196B EE/CS Building  
(612) 625-4055

<http://www.cs.umn.edu/>

### About CLA requirements, graduation, and other information about majors:

CLA Languages and  
Mathematics Student  
Community

114 Johnston Hall

(612) 624-7540

<http://langmath.class.umn.edu>

or

CLA Martin Luther King, Jr.  
Program

19 Johnston Hall

(612) 625-2300

<http://www.class.umn.edu/mlk/>

[mlk@class.cla.umn.edu](mailto:mlk@class.cla.umn.edu)

### About careers, internships, and community learning opportunities in this major and others:

Career and Community  
Learning Center

135 Johnston Hall

(612) 624-7577

[www.cclc.umn.edu](http://www.cclc.umn.edu)

[cclc@class.cla.umn.edu](mailto:cclc@class.cla.umn.edu)

### About graduation with honors:

CLA Honors Division

20 Nicholson

(612) 624-5522

[www.honors.class.umn.edu/](http://www.honors.class.umn.edu/)

[honors@class.cla.umn.edu](mailto:honors@class.cla.umn.edu)

- Computing—programming, systems development, network technology, Internet
- Other business—consulting, marketing, sales, technical writing, training
- Education—teaching, research, administration
- Government—public information, campaigns, research, diplomacy
- Nonprofit—administration, training

Today's workplace requires individuals with interpersonal skills, the ability to communicate effectively, an ability to solve problems, and adaptability. CLA graduates find that they are well-prepared in all these areas and that their education—especially when combined with experience gained through internships, volunteer positions, past jobs, and other collegiate involvement—makes them competitive.

The **Career & Community Learning Center** provides students with the tools to identify and pursue potential careers. An extensive resource room, career courses and workshops, and a helpful staff are just some of the ways we can help.

## **Remember!**

You have not declared a major until you have:

- completed a Major Program form with your major adviser,
- filed a copy with the major department,
- and filed a copy with your CLA student community.

**Don't forget: keep a copy for yourself!**