

COLLEGE OF ARTS AND SCIENCES

# COMPUTER SCIENCE

**Computer Science** is the study of computer and computational systems. It is a broad field; as such, the department offers **a wide-ranging curriculum focused on fundamentals and practical application** to develop creative problem-solvers equipped to adapt to the evolving world of computer science.

## DEPARTMENT STRENGTHS

- **ABET Certification.** The BS is accredited by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology.
- **Research Funding.** The department boasts millions in active grants, with numerous opportunities for student research.
- **Student Engagement.** Students can get involved in organizations, workshops and department-wide social events hosted each semester.

## SAMPLE CURRICULUM

### Core Courses*

- MATH 1920 Calculus II
- MATH 3242 Intro to Linear Algebra
- MATH 4614 Probability and Statistics
- COMP 1900 CS1: Intro to Programming
- COMP 2150 CS2: OOP and Data Structures
- COMP 2700 Discrete Structures
- COMP 3081 CS3: Intro to Software Design
- COMP 3115 Database Process and Design
- COMP 4030 Design and Analysis of Algorithms
- COMP 4081 Software Engineering
- COMP 4270 Operating Systems
- COMP 4517 Ethical Human-Computer Interaction

## DEGREE OPTIONS

- BS in Computer Science
  - Cybersecurity Concentration
- Minor in Computer Science
- Accelerated BS/MS in Computer Science
- Graduate Certificates
  - Data Science**
  - Cybersecurity and Information Assurance**
- MS in Computer Science
- PhD in Computer Science

## CENTERS + INSTITUTES

- Center for Information Assurance (CfIA)
- Institute for Intelligent Systems (IIS)
- M2DK Center of Excellence
- Systems Testing Excellence Program

## ADDITIONAL OPPORTUNITIES

- Honors Program
- Internships
- Research Groups
- Student Organizations
- Workshop Series

THE UNIVERSITY OF MEMPHIS
College of Arts and Sciences

# COMPUTER SCIENCE
## MAJOR FACT SHEET

## BY THE NUMBERS (Spring 2026)

### Student Enrollment

**582** Total
**490** Undergraduate
**92** Graduate

### Number of Minors

**6** Total

### Student Demographics

- **23%** Female
- **78%** Under 25
- **43%** Pell Grant
- **42%** First Gen

### Faculty Employed

**24:1** Student-Faculty Ratio†

**24** Full-Time
**3** Part-Time
**39** Grad Asst
**66** Total

### Degrees Awarded

**145** Total
**134** Bachelor's
**34** Master's
**2** GRCT
**9** Doctoral

### Career Outcomes‡

**$46K** Avg Expected Salary First Destination
**$66K** Avg Annual Salary 1-3 Years Post-Grad
**65%** Employed in TN
**65%** Employed in Memphis

### TN Employment Outlook

**34.9%** 10-Year Job Growth
**448** Avg Annual Job Openings

## CAREER OPTIONS

### Job Titles

- Business Analyst
- Computer Programmer
- Database Architect
- Front-End Developer
- Information Scientist
- Network Administrator
- Software Engineer
- Systems Analyst
- Web Developer
- Video Game Designer

### Industries

- Cybersecurity
- Government
- Healthcare
- Software
- Technology

## WHO YOU ARE

### Personality

- Analytical
- Collaborative
- Innovative
- Methodical
- Observant
- Technical

### Interests & Hobbies

- 3D Modeling
- Coding and Programming
- Gaming and Modding
- Open-Source Projects
- Technology
- Web Design

## WHAT YOU'LL LEARN

### Core Skills

- Computational Theory
- Data Structures and Algorithms
- Database Design
- Operating Systems
- Programming Languages
- Software Engineering

### Transferable Skills

- Attention to Detail
- Effective Communication
- Logical Thinking
- Organization
- Problem Solving
- Teamwork

* *The specified courses are for example purposes only. It is not a complete list of core courses.*
** *Online degree options are available for the specified programs through UofM Global.*

† *Calculated based on the number of student majors and the number of full-time faculty.*
‡ *Based on self-reported post-graduation outcomes of UofM students who have earned a Bachelor's degree in the last ten years.*