COLLEGE OF ARTS & 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*

- COMP 1900 CS1: Intro to Programming
- COMP 1950 Ethics & Technology
- COMP 2150 CS2: OOP & Data Structures
- COMP 2700 Discrete Structures
- COMP 3081 CS3: Intro to Software Design
- COMP 3115 Database Process & Design
- COMP 4081 Software Engineering
- COMP 4270 Operating Systems
- COMP 4882 Capstone Software Project
- MATH 1920 Calculus II
- MATH 3242 Intro to Linear Algebra
- MATH 4614 Probability & Statistics

DEGREE OPTIONS

- BS in Computer Science
  - Artificial Intelligence
  - Cybersecurity
  - Data Science
  - Honors in Computer Science
- Minor in Computer Science
- Accelerated BS/MS in Computer Science
- Graduate Certificates
  - Cybersecurity & Information Assurance
  - Data Science
- MS in Computer Science
- PhD in Computer Science

CENTERS & INSTITUTES

- Center for Information Assurance
- Institute for Intelligent Systems
- Systems Testing Excellence Program

ADDITIONAL OPPORTUNITIES

- Internships
- Research Groups
- Student Organizations
- Workshop Series

The University of Memphis is an Equal Opportunity/Affirmative Action University.
It is committed to the education of a non-racially identifiable student body.

THE UNIVERSITY OF MEMPHIS
College of Arts & Sciences

COMPUTER SCIENCE
MAJOR FACT SHEET

BY THE NUMBERS (Spring 2024)

Student Enrollment

876 Total
573 Undergraduate
303 Graduate

Number of Minors

7 Total

Student Demographics

- **27%** Female
- **79%** Under 25
- **32%** Pell Grant
- **26%** First Gen

Faculty Employed

37:1 Student-Faculty Ratio†

- **24** Full-Time
- **5** Part-Time
- **56** Grad Asst
- **85** Total

Degrees Awarded

240 Total

- **79** Bachelor's
- **1** GRCT
- **158** Master's
- **2** Doctorate

Career Outcomes‡

- **$74K** Avg Expected Salary First Destination
- **$65K** Avg Annual Salary 1-3 Years Post-Grad
- **70%** Employed in TN
- **70%** 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 & Programming
- Gaming & Modding
- Open-Source Projects
- Technology
- Web Design

WHAT YOU'LL LEARN

Core Skills

- Computational Theory
- Data Structures & 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.*