

Computer Science B.S. (Bachelor of Science)

| FRESHMAN YEAR | | | SOPHOMORE YEAR | |
|--|-----------------------------------|--------------|---|---|
| Fall Semester | | 17 Credits | Fall Semester | 17 Credits |
| ENGL 1100 | Writing I | • | CSC 1600 | Introduction to Electronics(4) |
| CSC 1500 | Computer Science I | (-) | CSC 2560 | Systems Programming(3) |
| MATH 1300 | Precalculus (if needed) | (-) | MATH 2300 | Calculus I(4) |
| | LAB Course | * * * | | LA&S Elective (HAF)(3) |
| | LA&S Elective (CTW) | (1) | | LA&S Elective (AOM)(3) |
| Spring Semester | | 15 Credits | Spring Semester | 17 Credits |
| ENGL 1200 | Writing II | (3) | CSC 1650 | Digital Electronics(4) |
| CSC 1550 | Computer Science II | (-) | CSC 3700 | Algorithms and Data Structures(3) |
| CSC 1900 | Discrete Math | (5) | MATH 2400 | Calculus II(4) |
| | LS&S Elective (HIST) | - / | SPCH 1000 | Introduction to Speech Communication(3) |
| | LA&S Elective (HMN) | (- / | | LA&S Elective (LIT)(3) |
| | JUNIOR YEAR | | | SENIOR YEAR |
| Fall Semester | | 16 Credits | Fall Semester | 12 Credits |
| CSC 2600 | Computer Organization | | CSC 3xxx/4xxx | CSC Elective(3) |
| CSC 3200 | Programming Languages | * * * | CSC 3xxx/4xxx | CSC Elective(3) |
| MATH 1800 | Business Statistics | 1 - / | CSC JAAAJ4AAA | Free Elective(3) |
| CSC 3011 | Data Modeling and Database Design | (-) | | Free Elective(3) |
| CSC 3xxx/4xxx | CSC Elective | | | Tree Liective(3) |
| CJC 3////4/// | CSC LIECUVE | (3) | Curing Compater | 40 Cradita |
| Curing Competer | | 46 Cradita | Spring Semester | 10 Credits |
| Spring Semester | | 16 Credits | CSC 4102 | Ethical Issues in Computer Science(1) |
| CSC 3600 | Microprocessors | (' ' | CSC 4400 | Software Engineering(3) |
| CSC 3100 | Operating Systems | 1 - / | CSC 3xxx/4xxxx | CSC Elective(3) |
| MATH 2600 | Linear Algebra | 1 - / | | Free Elective(3) |
| CSC 3xxx/4xxx | CSC Elective | (3) | | |
| | | | | Suggested Computer Science Electives: |
| LA&S Elective List 1 AOM attribute (Art or Music) | | Global D | viversity Area | Fall Semester CSC 3050 Web Programming CSC 3400 Data Communication and Networking |
| 1 CTW attribute (Citizenship & The World) 3 credits HAF attribute (Health/Fitness) | | | rses taken must meet the iversity requirement: GDAN | CSC 3040 Cyber Security Management CSC 4940 Internship: Computer Science |
| A LUCT and the st | | course + | (GDC or GDCN course) OR | Spring Semester |
| | | dDCIV CO | urse + (GDA or GDAN course). | |
| 1 HMN attribute (Human Behavior) 1 LAB attribute (Lab Science) Option B requirements fulfilled by completion of MATH 1800, | | , | ourses are allowed to satisfy the | |
| 1 LIT attribute (Literature) 2300, 2400, and 2600. | | | nent and another requiremen Ime time. | t CSC 4005 Ethical Hacking CSC 4940 Internship: Computer Science |
| LIT GETTIDGE (Enterature | 2,500, 2400, and 2000. | at the sa | mic unic. | coc 4940 internship, computer ocience |

 $Completion \ of \ 120 \ credits \ required \ for \ graduation.$

Rev. 10-2019

COMPUTER SCIENCE DEPARTMENT Information Sheet



What makes us unique?

ABET accredited since 2006! ABET is the recognized United States accreditor of college and



Computing Accreditation Commission

university programs in applied and natural science, computing, engineering, and engineering technology.

This means:

- Our programs are reviewed regularly according to a national education standard
- We continuously assess our program and improve our curriculum to provide current and relevant instruction to meet student needs.

Facilities

The students in the Computer Science Department have access to state-of-the-art multimedia classrooms and lecture/labs.

In addition, the department offers:

- Access to required software through special educational software licenses from Microsoft, and other prominent software vendors.
- High speed Internet connections between computer labs and departmental network using the latest technologies.
- Hardware labs containing equipment for teaching courses such as digital electronics, computer organization, microprocessors, digital signal processing, data communications, local area networks and embedded systems.
 Windows, UNIX, LINUX, and state-of-the-art database servers.

Faculty

With an average student-to-faculty ratio of 14 to one, every student receives the kind of personal attention they need to master a variety of skills applicable to the business world. Many members of the faculty hold doctoral degrees, and many have been recognized for their expertise in a variety of areas such as systems programming, networking, data communication, data analytics, and algorithms. The faculty are also known for their active involvement in advancing the technological capabilities on campus.

Students benefit from an interdisciplinary approach, taking courses from such disciplines as mathematics and business administration. Faculty from many departments team up to offer dynamic instruction in workplace applications, as well as in group projects. All are recognized for their teaching excellence and involvement with professional organizations.

Internships

Computer Science and Computer Information Systems students are encouraged to pursue off-campus internships in their senior year to hone their real-world skills outside the classroom. Most internships are paid, and all positions can provide a real edge after graduation.

Past and Current Internship Opportunities:

- Dell EMC
- IBM Mass Lab
- MassGeneral Hospital for Children
- Dun & Bradstreet
- VeriSign, Inc.

- Jibunu
- State Street Corporation
- PerkinElmer, Inc.
- ERP Analysts, Inc.
- Staples, Inc.





