# BSCSE Computer Systems Engineering
## Fall 2024

This document is an example of a BSCSE program of study. Several factors can affect the course scheduling sequence. For a copy of the official curriculum, please go to the UGA Bulletin: **http://bulletin.uga.edu/**

**Major Requirements**
Students must earn a grade of "C" (2.0) or better in the courses indicated in **bold**.

**Entrance Requirements**
To be considered as a candidate for BSCSE, students must complete the courses indicated in *italics*. For more information on entrance requirements, please refer to the UGA Bulletin: **http://bulletin.uga.edu/** and our website: **https://engineering.uga.edu/**.

### YEAR ONE

| Fall Semester | | Hours | Spring Semester | | Hours |
|---|---|---|---|---|---|
| *MATH 2250* | *Calculus I* | **4** | *MATH 2260* | *Calculus II* | 4 |
| *PHYS 1251* | *Physics for Engineers I* | **3** | PHYS 1252 | **Physics for Engineers II** | 3 |
| *ECSE 1100* | *Intro to ECSE* | **3** | CSCI 1302 | **Software Development** | 4 |
| **CSCI 1301** | **Intro to Computing/Programming** | **4** | CSCI 2611 | Discrete Math for Engineers | 3 |
| FYOS | First-Year Odyssey | **1** | *ENGL 1101* | *English Composition I* | 3 |
| **Total Credit Hours** | | **15** | **Total Credit Hours** | | **17** |

### YEAR TWO

| Fall Semester | | Hours | Spring Semester | | Hours |
|---|---|---|---|---|---|
| **MATH 2700** | **Differential Equations** | **3** | **MATH 2500** | **Multivariable Calculus** | 3 |
| *CSEE 2220* | *Fundamentals of Logic Design* | **3** | ECSE 2920 | ECSE Design Methodology | 3 |
| CSCI 2720 | Data Structures | 4 | CSCI 1730 | Systems Programming | 4 |
| ENGL 1102 | English Composition II | 3 | ENGR 2110 | Engineering Decision Making | 3 |
| *ECSE 2170+L* | *Fundamentals of Circuit Analysis* | *3* | ELEE 3270 | Electronics I | 3 |
| **Total Credit Hours** | | **16** | **Total Credit Hours** | | **16** |

### YEAR THREE

| Fall Semester | | Hours | Spring Semester | | Hours |
|---|---|---|---|---|---|
| ENGR 2090 | Probability & Statistics for Engrs | **3** | **MATH 3300** | **Applied Linear Algebra** | 3 |
| ELEE 4230 | Sensors & Transducers | 3 | CSEE 4280 | Advanced Digital Design | 4 |
| ECSE 4230 | Embedded Systems Design 1 | 3 | ECSE 4235 | Embedded Systems Design II | 3 |
| CSEE 4270 | Design of Digital Systems | 3 | | Social Sciences Elective | 3 |
| ELEE 4210 | Linear Systems | 3 | | World Lang & Cultural Elective | 3 |
| | Social Sciences Elective | 3 | | | |
| **Total Credit Hours** | | **18** | **Total Credit Hours** | | **16** |

### YEAR FOUR

| Fall Semester | | Hours | Spring Semester | | Hours |
|---|---|---|---|---|---|
| CSEE 4910 | Capstone Design Project I | 2 | CSEE 4911 | Capstone Design Project II | 2 |
| | Major Elective | 3 | | Major Elective | 3 |
| | Major Elective | 3 | | Major Elective | 3 |
| | Humanities & the Arts Elective | 3 | | Life Science Elective* | 4 |
| | World Lang & Culture Elective | 3 | | World Lang & Culture Elective | 3 |
| | Social Sciences Elective | 3 | | | |
| **Total Credit Hours** | | **17** | **Total Credit Hours** | | **15** |

*Life Science Elective: For complete information on these options, please go to the UGA Bulletin: http://bulletin.uga.edu/GenEdCoreBulletin.aspx. This should also meet the Environmental Literacy University Requirement.

**Major Electives:** Choose at least four elective courses numbered 3000-4949 and comprising 12 or more credit hours. At least one must be a course from the CSEE, ECSE, ELEE, or INFO prefixes. The remaining can be courses from the AENG, AERO, ARTI, ASTR, BCHE, BCMB, BINF, BIOE, BIOS, CBIO, CHEM, CSCI, CSEE, CURO, CVLE, ECOL, ECSE, ELEE, ENGR, ENTO, ENVE, GENE, GEOL, GISC, INFO, MATH, MCHE, MIBO, MIST, PBIO, PHYS, or STAT prefixes. Research credits and internship/co-op credits are not "courses" for this purpose, and are treated differently: Refer to the Bulletin or speak to your advisor.

04/26/2024