## Distributed System & Software Design and Robotics & Autonomous Systems

| FIRST YEAR-FALL | HR | Notes | FIRST YEAR-SPRING | HR | Notes |
|---|---|---|---|---|---|
| ENGL 1101 | 3 | | ENGL 1102 | 3 | |
| MATH 1551 | 2 | | MATH 1552 | 4 | |
| MATH 1554 | 4 | | Social Science Elective | 3 | |
| CS 1301 | 3 | | PHYS 2211 | 4 | |
| CHEM 1310 | 4 | | CS 1331 | 3 | |
| ECE 1100 | 1 | | | | |
| | | | | | |
| **TOTAL SEMESTER HOURS** | **17** | | **TOTAL SEMESTER HOURS** | **17** | |

| SECOND YEAR-FALL | HR | Notes | SECOND YEAR-SPRING | HR | Notes |
|---|---|---|---|---|---|
| MATH 2550 | 2 | | ECE 2040 | 3 | |
| PHYS 2212 | 4 | | History/Government Elective | 3 | 6 |
| CS 1332 | 3 | | MATH 2552 | 4 | |
| ECE 2020 | 3 | | ECE 2035 | 4 | |
| ECE 2026 | 3 | | ECE 2031 | 2 | |
| APPH 1040 OR 1050 | 2 | | | | |
| **TOTAL SEMESTER HOURS** | **17** | | **TOTAL SEMESTER HOURS** | **16** | |

| THIRD YEAR-FALL | HR | Notes | THIRD YEAR-SPRING | HR | Notes |
|---|---|---|---|---|---|
| Humanities Elective | 3 | | Economics/Social Science Elective | 3 | |
| ECE3550 | 3 | | CS3251 | 3 | |
| CS 2050 OR CS 2051 | 3 | | ECE 4550 | 4 | |
| Prob & Stat option | 3 | | Humanities Elective | 3 | |
| ECE 3058 | 4 | | ECE 3005 | 1 | |
| Elective Hours | 1 | 1 | Pick 1 of Advanced Software | 3 | 1 |
| | | | | | |
| **TOTAL SEMESTER HOURS** | **17** | | **TOTAL SEMESTER HOURS** | **17** | |

| FOURTH YEAR-FALL | HR | Notes | FOURTH YEAR-SPRING | HR | Notes |
|---|---|---|---|---|---|
| Senior Design Sequence | 1 | 2 | Senior Design Sequence | 2 | 2 |
| Pick 1 of Robotics & Auto Systems | 3 | | ECE 3000/4000 Elective (EE Thread) | 3 | 5 |
| Pick 1 of Edge, Cloud, and Mobile Apps | 3 | 1 | Elective Hours | 3 | 1 |
| Elective Hours | 3 | | Pick 1 of Edge, Cloud, and Mobile Apps | 3 | |
| Social Science Elective | 3 | | Elective Hours | 3 | 1 |
| Elective Hours | 1 | 1 | | | |
| | | | | | |
| **TOTAL SEMESTER HOURS** | **14** | | **TOTAL SEMESTER HOURS** | **14** | |
| Completed Hours: | | | | | |
| Remaining Hours: | | | | | |
| Surplus Non Usable Hours | | | | | |
| Total Hours for Degree | **129** | 129 | | | |

| DSSD + ROB | | | |
|---|---|---|---|
| | Lec | Lab | Hours |
| Institute Core Hours+Prob Stat: | x | x | 60 |
| Common Core | x | x | 27 |
| Total Thread Hours: | x | x | 28 |
| Elective Hours (includes Senior Design Sequence) | x | x | 14 |
| Total Degree Hours | | | 129 |

| CmpE Common Core | | | |
|---|---|---|---|
| ECE 1100 - ECE Discovery Studio | 1 | 0 | 1 |
| CS 1331 Introduction to Object-Oriented Programming | 3 | 0 | 3 |
| CS 1332 Data Structures and Algorithms | 3 | 0 | 3 |
| CS 2050 or CS 2051 Introduction to Discrete Math for CS | 3 | 0 | 3 |
| ECE 2020 – Fundamentals of Digital System Design | 3 | 0 | 3 |
| ECE 2040 - Circuit Analysis | 3 | 0 | 3 |
| ECE 2031 – Digital Design Laboratory | 1 | 3 | 2 |
| ECE 2035 - Programming HW/SW Sys | 3 | 3 | 4 |
| ECE 3005 - Professional Communications | 1 | 0 | 1 |
| ECE 3058 – Architecture, Concurrency and Energy in Computation | 3 | 3 | 4 |
| **Total** | **24** | **9** | **27** |

| Distributed System & Software Design | | | |
|---|---|---|---|
| CS 3251 - Computer Networking | 3 | 0 | 3 |
| **Pick 1 of Advanced Software** | **3** | **0** | **3** |
| **Pick 2 of Edge, Cloud, and Mobile Apps** | **6** | **x** | **6** |
| | | | |
| Robotics & Autonomous Systems | | | |
| ECE2026 - Intro Signal Processing | 2 | 3 | 3 |
| ECE 3550 - Feedback Control Systems | 3 | 0 | 3 |
| ECE 4550 - Control System Design | 3 | 3 | 4 |
| **Pick 1 of Robotics & Autonomous Systems Topics** | **3** | **0** | **3** |
| **ECE 3000/4000 Elective (From any EE Thread)** | **3** | **0** | **3** |
| **Total (See Notes 3 and 4)** | **x** | **x** | **28** |

| Total Degree Hours: | x | x | 129 |
|---|---|---|---|

(1) Elective hours depend on thread picks and Senior Design Option

(2) See degree options for senior design

(3) Thread hours may depend on thread picks

(4) For shared thread courses, select an additional ECE/CS 3000/4000 elective or pick

(5) EE Thread electives must come from an EE thread

(6) HIST 2111/2122 or POL 1101 or INTA 1200 or PUBP 3000