

Distributed System & Software Design and Devices

| 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 2031 | 2 | |
| PHYS 2212 | 4 | | History/Government Elective | 3 | 5 |
| CS 1332 | 3 | | MATH 2552 | 4 | |
| ECE 2020 | 3 | | ECE 2035 | 4 | |
| CS 2050 OR CS 2051 | 3 | | CS 2340 | 3 | |
| 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 | |
| ECE 2040 | 3 | | CS 3251 | 3 | |
| Social Science Elective | 3 | | ECE/CS 3000/4000 Elective | 3 | 4 |
| Prob & Stat option | 3 | | Humanities Elective | 3 | |
| ECE 3058 | 4 | | ECE 3005 | 1 | |
| | | | Pick 1 of Advanced Software | 3 | |
| | | | | | |
| TOTAL SEMESTER HOURS | 16 | | TOTAL SEMESTER HOURS | 16 | |

| FOURTH YEAR-FALL | HR | Notes | FOURTH YEAR-SPRING | HR | Notes |
|--|------------|--------------|--|-----------|--------------|
| Senior Design Sequence | 1 | 2 | Senior Design Sequence | 2 | 2 |
| CS 3510 or CS 3511 | 3 | | Pick 1 of Building Devices | 4 | |
| Elective hours | 3 | 1 | Pick 1 of Devices in the Real World | 3 | |
| Pick 1 of Edge, Cloud, and Mobile Apps | 3 | | Pick 1 of Edge, Cloud, and Mobile Apps | 3 | |
| Elective Hours | 3 | 1 | Elective Hours | 3 | 1 |
| Elective Hours | 2 | 1 | | | |
| | | | | | |
| TOTAL SEMESTER HOURS | 15 | | TOTAL SEMESTER HOURS | 15 | |
| Completed Hours: | | | | | |
| Remaining Hours: | | | | | |
| Surplus Non Usable Hours | | | | | |
| Total Hours for Degree | 129 | 129 | | | |

| DSSD + Devices | | | |
|---|------------|------------|--------------|
| | 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 |
| | | | |
| | | | |
| Devices | | | |
| CS 2340 - Objects and Design | 3 | 0 | 3 |
| CS 3251 - Computer Networking (*) | 3 | 0 | 3 |
| CS 3510 or CS 3511 - Design and analysis of algorithms | 3 | 0 | 3 |
| Pick 1 of Building Devices (**) | 3 | 3 | 4 |
| Pick 1 of Devices in the Real World | 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 (see notes 3 and 4)
- (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) HIST 2111/2122 or POL 1101 or INTA 1200 or PUBP 3000

(*) CS3251 is duplicated in the required list of courses (See Note 4)

(**) ECE4180 is a shared pick (see Note 4)