| Computing Hardware & Emerging Architectures 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 | | Notes |
|----------------------|----|-------|-----------------------------------|----|-------|
| Humanities Elective | 3 | | Economics/Social Science Elective | 3 | |
| ECE 3550 | 3 | | ECE 3150 | 4 | |
| CS 2050 OR CS 2051 | 3 | | ECE 4550 | 4 | |
| Prob & Stat option | 3 | | Humanities Elective | 3 | |
| ECE 3058 | 4 | | ECE 3030 | 3 | |
| ECE 3005 | 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 Embedded Systems | 3 | 1 | Pick 1 of Integration, Devices, & Fab | 3 | |
| Elective Hours | 3 | | Pick 1 of Computer Architecture | 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 | | | |

| CHEA + ROB | | | | | |
|--|-----|-----|-------|--|--|
| | Lec | Lab | Hours | | |
| Institute Core Hours+Prob Stat: | Х | х | 60 | | |
| Common Core | Х | х | 27 | | |
| Total Thread Hours: | Х | Х | 32 | | |
| Elective Hours (includes Senior Design Sequence) | Х | Х | 10 | | |

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 | 3 | 3 | 4 |
| Computation | 5 | 5 | 4 |
| Total | 24 | 9 | 27 |

| Computing Hardware & Emerging Architectures | | | | | | | |
|--|---|---|----|--|--|--|--|
| ECE 3150 - VLSI & Adv Digital Design | 3 | 3 | 4 | | | | |
| ECE 3030 – Physical Found. of Computer Engineering | 3 | 0 | 3 | | | | |
| Pick 1 of Embedded Systems (*) | 3 | 0 | 3 | | | | |
| Pick 1 of Integration, Devices & Fabrication | 3 | х | 3 | | | | |
| Pick 1 of Computer Architecture 3 0 | | | | | | | |
| | | | | | | | |
| 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 | х | 32 | | | | |

| Total Degree Hours: | х | 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