

SCHOOL OF SCIENCE AND ENGINEERING

PROGRAM OF STUDY IN COMPUTER ENGINEERING

FRESHMAN YEAR

| <i>First Semester</i> | | <i>SCH</i> | <i>Second Semester</i> | | <i>SCH</i> |
|-----------------------|---|------------|------------------------|----------------------------------|------------|
| ENG 131 | Analysis & Argumentation | 3 | ENG 132 | Information, Literacy & Research | 3 |
| MATH 143 | Calculus I | 4 | MATH 144 | Calculus II | 4 |
| CSC 132 | Intro to Computing and Programming Concepts | 3 | CSC 135 | Introduction to Programming | 3 |
| HIST 130 | Afr. American History | 3 | | Global and Intercultural | 3 |
| ENGR 130 | Introduction to Engineering | 3 | STEM 112 | The College Experience II | 1 |
| STEM 111 | The College Experience | 1 | | | |
| Total | | 17 | Total | | 14 |

SOPHOMORE YEAR

| <i>First Semester</i> | | <i>SCH</i> | <i>Second Semester</i> | | <i>SCH</i> |
|-----------------------|--------------------------|------------|------------------------|-----------------------------------|------------|
| MATH 237 | Differential Equations I | 3 | *CSC 138 | Algorithm Design II | 3 |
| CSC 136 | Algorithm Design I | 3 | MATH 230 | Linear Algebra | 3 |
| *CSC 231 | Assembly Language | 3 | *EE 232 | Circuits II | 3 |
| *EE 231 | Circuits I | 3 | *EE 212L | Circuits II Lab | 1 |
| *EE 211 L | Circuits I Lab | 1 | *EE 233 | Electronics I | 3 |
| *CE 231 | Digital Circuits | 3 | *EE 213L | Electronics I Lab | 1 |
| *CE 211L | Digital Circuits I Lab | 1 | STEM 221 | Professional Pathways Development | 2 |
| Total | | 17 | Total | | 16 |

JUNIOR YEAR

| <i>First Semester</i> | | <i>SCH</i> | <i>Second Semester</i> | | <i>SCH</i> |
|-----------------------|-------------------------------|------------|------------------------|----------------------------|------------|
| *EE 330 | Systems and Signals | 3 | *EE 332 | Digital Signal Processing | 3 |
| *CSC 333 | Data Structures | 3 | *CE 332 | Embedded Systems | 3 |
| *CSC 337 | Computer Org and Architecture | 3 | MATH 336 | Discrete Mathematics | 3 |
| *EE 334 | Electronics II | 3 | MATH 236 | Probability and Statistics | 3 |
| *EE 314L | Electronics II Lab | 1 | ENG 237 | Oral Communication | 3 |
| PHYS 233 | Prin. Of Physics I | 3 | PHYS 234 | Prin. Of Physics II | 3 |
| PHYS 213L | Prin. Of Physics I Lab | 1 | PHYS 214L | Prin. Of Physics II Lab. | 1 |
| ENGR 321 | Engineering Professional Dev. | 2 | | | |
| Total | | 19 | Total | | 19 |

SENIOR YEAR

| <i>First Semester</i> | | <i>SCH</i> | <i>Second Semester</i> | | <i>SCH</i> |
|-----------------------|-------------------------------|------------|------------------------|-----------------------------------|------------|
| *CSC 435 | Software Engineering | 3 | *CSC 436 | Operating Systems | 3 |
| *CE 436 | VLSI Design | 3 | *EE 431 | Communication Systems | 3 |
| *CE 427 | Senior Design Project I | 2 | *CE 428 | Senior Design Project II | 2 |
| ENGR 331 | Engineering Economics | 3 | | Global and Intercultural Learning | 3 |
| FS/SP/AR 233 | Intermediate Foreign Language | 3 | | Health and Wellness | 2 |
| Total | | 14 | Total | | 13 |

Total SCH 129

SCH in Major* 57

*Major courses require a "C" or better.