## Professional Option

| Freshman Year | Credits |  |
| :---: | :---: | :---: |
|  | Fall | Spring |
| CSCI 127 - Joy and Beauty of Data | 4 |  |
| M 171Q - Calculus I | 4 |  |
| WRIT 101W - College Writing I | 3 |  |
| University Core and Electives | 3 |  |
| CSCI 132 - Basic Data Structures and Algorithms |  | 4 |
| M 172 - Calculus II |  | 4 |
| University Seminar Core |  | 3 |
| University Core and Electives |  | 4 |
| Year Total: | 14 | 15 |
| Sophomore Year | Credits |  |
|  | Fall | Spring |
| CSCI 215CS - Social \& Ethical Issues in Computer Science | 3 |  |
| CSCI 246 - Discrete Structures | 3 |  |
| WRIT 221 - Intermediate Tech Writing | 3 |  |
| Science Elective | 4 |  |
| University Core | 3 |  |
| CSCI 112 - Programming with C I |  | 3 |
| CSCI 232 - Data Structures and Algorithms |  | 4 |
| Math, Statistics, or Probability Elective |  | 3 |
| Science Elective |  | 3 |
| University Core |  | 3 |
| Year Total: | 16 | 16 |
| Junior Year | Credits |  |
|  | Fall | Spring |
| ESOF 322 - Software Engineering | 3 |  |
| CSCI 366 - Computer Systems | 3 |  |
| Upper Division Elective Choices From Below | 3 |  |
| CS or Related Electives | 6 |  |
| CSCI 305 - Concepts/Programming Languages |  | 3 |
| CSCI 338 - Computer Science Theory |  | 3 |
| Upper Division Elective Choices From Below |  | 6 |
| CS or Related Electives |  | 3 |
| Year Total: | 15 | 15 |
| Senior Year | Credits |  |
|  | Fall | Spring |
| Upper Division Elective Choices From Below | 6 |  |
| CS or Related Electives | 3 |  |
| Math, Statistics, or Probability Elective | 3 |  |
| Free Electives | 3 |  |
| CSCI 468 - Compilers |  | 4 |
| CSCI 476 - Computer Security |  | 3 |
| CSCI 481 - Program Assessment |  | 0 |
| Upper Division Elective Choices From Below |  | 4 |
| Free Electives |  | 3 |
| Year Total: | 15 | 14 |
| Total Program Credits: |  | 120 |

A minimum of 120 credits is required for graduation; 42 of these credits must be in courses numbered 300 and above.

Upper Division Elective Choices

| CSCI 331 | Web Development | 3 |
| :--- | :--- | :--- |
| CSCI 347 | Data Mining | 3 |
| CSCI 351 | Systems Administration | 3 |
| CSCI 432 | Advanced Algorithm Topics | 3 |
| CSCI 440 | Database Systems | 3 |
| CSCI 441 | Computer Graphics | 3 |
| CSCI 442 | Comp Vision: Robot Vision | 3 |
| CSCI 443 | User Interface Design | 3 |
| CSCI 445 | Human Computer Interaction | 3 |
| CSCI 446 | Artificial Intelligence | 3 |
| CSCI 447 | Machine Learning | 3 |
| CSCI 451 | Computational Biology | 3 |
| CSCI 455 | Embedded Systems: Robotics | 3 |
| CSCI 460 | Operating Systems | 3 |
| CSCI 466 | Networks | 1 |
| CSCI 495 | Field Work/Practicum | 3 |
| EGEN 310R | Multidisciplinary Engineering Design | 3 |
| EIND 422 | Introduction to Simulation | 3 |
| ESOF 422 | Advanced Software Engineering: |  |
|  | Cybersecurity Practices |  |

