|  |  |  |  |
| --- | --- | --- | --- |
| **YEAR 1** | | **YEAR 3** | |
| **SEMESTER 1** | | **SEMESTER 5** | |
| **Course Code and Title** | **Credits** | **Course Code and Title** | **Credits** |
| CMPS 315 Operating Systems | 3 | CMPS 480 Big Data | 3 |
| ISIT 328 Data Warehouse Design | 3 | ISIT 370 Agile Project Management | 3 |
| MGMT 200 Introduction to Project Management | 3 | CMPS 222 Java II | 3 |
| BUSN/INTL 240 Law & Ethics | 3 | MATH 131 Calculus I | 3 |
| CMPS 122 Introduction to Java I | 3 | XXX Elective I | 3 |
| **YEAR 1** | | **YEAR 3** | |
| **Semester 2** | | **SEMESTER 6** | |
| **Course Code and Title** | **Credits** | **Course Code and Title** | **Credits** |
| CMPS 332 Analysis of Algorithms | 3 | CMPS 226 Programming in C | 3 |
| CMPS 410 Introduction to Artificial Intelligence | 3 | CMPS 230 Computer Organization | 3 |
| ISIT 350 Advanced Web Application Design | 3 | CMPS 318 Database Management Systems | 3 |
| ISIT 112 Introduction to Information Technology | 3 | MATH 132 Calculus II | 3 |
| MATH 110 Introduction to Business Statistics | 3 | XXX Elective II | 3 |
| **YEAR 2** | | **YEAR 4** | |
| **SEMESTER 3** | | **SEMESTER 7** | |
| **Course Code and Title** | **Credits** | **Course Code and Title** | **Credits** |
| CMPS 426 Bioinformatics | 3 | CMPS 322 Machine Learning and Pattern Recognition | 3 |
| CMPS 433  Game Programming | 3 | CMPS 337 Introduction to Data Science | 3 |
| ISIT 355 Advanced Mobile Application Development | 3 | MATH 140 Discrete Mathematics | 3 |
| CMPS 202 Data Structures and Algorithms I | 3 | XXX Elective III | 3 |
| ISIT 225 Information Systems Analysis and Design | 3 | XXX Elective IV | 3 |
| **YEAR 2** | | **YEAR 4** | |
| **SEMESTER 4** | | **SEMESTER 8** | |
| **Course Code and Title** | **Credits** | **Course Code and Title** | **Credits** |
| CMPS 477 Image Processing | 3 | CMPS 438 Computer Security | 3 |
| ISIT 362 Social Network Analysis | 3 | MATH 212 Numerical Analysis | 3 |
| CMPS 205 Data Structures and Algorithms II | 3 | XXX Elective V | 3 |
| CMPS 211 Computer Networks | 3 | XXX Elective VI | 3 |
| MATH 128 Linear Algebra | 3 | XXX Elective VII | 3 |