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| **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 |