



College of Engineering and Computing
 SAMPLE 16 MONTH CURRICULUM | 2017-2018 CATALOG
 Master of Science — Computer Science
 Computer Systems Concentration

| First Year | | | | | | | | |
|---|----------|-----------|--|----------|-----------|---|----------|-----------|
| Fall | | | Winter | | | Summer | | |
| Course | Credits | Frequency | Course | Credits | Frequency | Course | Credits | Frequency |
| CISC 640 Operating Systems | 3 | FS | CISC 610 Programming Languages | 3 | FW | CISC 615 Design and Analysis of Algorithms | 3 | S |
| CISC 680 Software Engineering | 3 | FS | CISC 665 Distributed Systems | 3 | W | CISC 647 Computer Architecture | 3 | S |
| CISC 650 Computer Networks | 3 | FW | Elective | 3 | | Elective | 3 | |
| Total Credits | 9 | | Total Credits | 9 | | Total Credits | 9 | |
| Second Year | | | | | | | | |
| Course | Credits | Frequency | | | | | | |
| Elective | 3 | | | | | | | |
| Elective | 3 | | | | | | | |
| Elective | 3 | | | | | | | |
| Total Credits | 9 | | | | | | | |
| TOTAL CREDITS: 36 | | | | | | | | |
| Elective Options | | | | | | | | |
| Course | Credits | Frequency | Course | Credits | Frequency | Course | Credits | Frequency |
| CISC 664 Information Retrieval and Web Search Engine Technology | 3 | F | MMIS 671 Fundamentals of Analytics and Business Intelligence | 3 | FW | CISC 662 Data Mining and Knowledge Discovery in Databases | 3 | FS |
| CISC 631 Theory of Computation | 3 | W | CISC 684 Software Testing and Verification | 3 | W | CISC 682 Software Requirements Engineering | 3 | F |
| ISEC 620 Applied Cryptography | 3 | F | CISC 685 Interaction Design | 3 | F | CISC 670 Artificial Intelligence | 3 | F |
| CISC 681 Computer Graphics | 3 | W | CISC 660 Database Management Systems | 3 | W | ISEC 660 Advanced Network Security | 3 | W |
| CISC 630 Compilers | 3 | S | CISC 672 Data Visualization | 3 | W | ISEC 600 Secure Computer Systems | 3 | FS |
| ISEC 640 Database Security | 3 | FS | ISEC 650 Computr and Network Forensics | 3 | FW | CISC 683 Object-Oriented Design | 3 | F |

*This sample plan is subject to change.