



2019 - 2020
Computer Science –
Concentration in Database Technology
Bachelor of Science Degree

| Fall Year 1 | | Courses | Credit Hours | |
|----------------------|---|----------------|---------------------|-----------|
| CIS 1110 | Computer Operating Systems and Maintenance I and II | | 3 | 15 |
| CS 1110 | Introduction to Programming | | 3 | |
| ENG 1010 | College Composition I | | 3 | |
| MTH 1110 | College Algebra I | | 3 | |
| NET 1010 | Networking Essentials | | 3 | |
| Spring Year 1 | | | | |
| | | Courses | Credit Hours | |
| CIS 2210 | Database Management and Design | | 3 | 15 |
| CS 1010 | Principles of Computer Science | | 3 | |
| ENG 1020 | College Composition II | | 3 | |
| MTH 1120 | College Algebra II | | 3 | |
| ITS 2310 | LINUX I | | 3 | |
| Fall Year 2 | | | | |
| | | Courses | Credit Hours | |
| CIS 2510 | Systems Development Methods | | 3 | 15 |
| CS 2010 | Net-centric Computing | | 3 | |
| CS 2410 | Java Programming | | 3 | |
| MTH 1210 | Trigonometry | | 3 | |
| ELECTIVE | Science Elective | | 3 | |
| Spring Year 2 | | | | |
| | | Courses | Credit Hours | |
| CS 2150 | C++ Programming | | 3 | 15 |
| CS 2420 | Advanced Java Programming | | 3 | |
| MTH 1410 | Introduction to Discrete Mathematics | | 3 | |
| SPK 2010 | Oral Communication | | 3 | |
| WRKIT 2010 | Work Experience | | 3 | |

| Fall Year 3 | | Courses | Credit Hours | |
|--|--|---------|--------------|------------|
| CIS 3010 | Computer Architecture | | 3 | 16 |
| CS 3110 | C# Programming | | 3 | |
| CS 3210 | Data Structures and Algorithms I | | 3 | |
| CIS 4210 | Database Administration I | | 3 | |
| MTH 1510 | Calculus I | | 4 | |
| Spring Year 3 | | | | |
| | | Courses | Credit Hours | |
| CIS 4220 | Database Administration II | | 3 | 15 |
| CS 3220 | Data Structures and Algorithms II | | 3 | |
| CS 3950 | Big Data Analytics | | 3 | |
| CS 4210 | Database Programming I | | 3 | |
| Select 1 Course from the Following: | | | | |
| PSY 1010 | Human Relations | | 3 | |
| PSY 1110 | General Psychology | | 3 | |
| Fall Year 4 | | | | |
| | | Courses | Credit Hours | |
| CS 3610 | Report Builder Analytics - Cognos | | 3 | 15 |
| CS 4220 | Database Programming II | | 3 | |
| CS 4510 | Unit Testing And Interfaces | | 3 | |
| ITS 3210 | Legal and Ethical Issues in Information Technology | | 3 | |
| SOC 3210 | Cultural Diversity | | 3 | |
| Spring Year 4 | | | | |
| | | Courses | Credit Hours | |
| CIS 4810 | Systems Development Project | | 3 | 15 |
| CS 4650 | Advanced Database Topics | | 3 | |
| CS 4810 | Trends in Computer Science | | 3 | |
| ELECTIVE | General Education Elective | | 3 | |
| WKRIT 4010 | Work Experience | | 3 | |
| Program Total | | | | 121 |