

**B.S. COMPUTER INFORMATION SYSTEMS
DEGREE REQUIREMENTS (2021-2022)**
Database Management Concentration

Student Name: _____

Mentor: _____

GENERAL EDUCATION CORE REQUIREMENTS

| Course | Credit Hrs. | Term Taken | Grade |
|---|-------------|------------|-------|
| First Year Experience FYE 101 | 1 | _____ | _____ |
| FYE 102 or approved substitute | 1 | _____ | _____ |
| English ENG 101/101E..... | 3 | _____ | _____ |
| ENG 102/103 | 3 | _____ | _____ |
| Literature ENG <u>201, 202, 203, 204, 205, or 206</u> | 3 | _____ | _____ |
| History HIS <u>111, 112, 201 or 202</u> | 3 | _____ | _____ |
| Religion/Philosophy | | | |
| REL <u>101, 102, 201, or 241</u> | 3 | _____ | _____ |
| Fine Arts (3 hours selected from ART 121, ART 131, ART 143, ART 211, ART 251, MUS 231, MUS 233, MUS 235, MUS 236, or ENG/DRA 131) | | | |
| _____ | 3 | _____ | _____ |
| Additional Humanities (Choose an additional course from the Literature, History, Religion/Philosophy, or Fine Arts choices) | | | |
| _____ | 3 | _____ | _____ |
| Speech ENG/COMM 221 | 3 | _____ | _____ |
| Math MAT 231 | 3 | _____ | _____ |
| Natural Science | | | |
| (8 hours selected from BIO 111/115, BIO 112/116, BIO 114, CHE 111, CHE 112, PHY 101, PHY 102, PHY 105, PHY 241, PHY 242, PHY 251, or PHY 252) | | | |
| _____ | 4 | _____ | _____ |
| _____ | 4 | _____ | _____ |
| Physical Education (any activity course) | | | |
| HPPE _____ | 1 | _____ | _____ |
| Social Sciences (3 hours selected from PSY 113, SOC 211, BUS 201 BUS 202, or HIS 221) | | | |
| _____ | 3 | _____ | _____ |
| B.S. Degree Requirement – Computer Literacy | | | |
| CS 110 | 3 | _____ | _____ |
| Other Required Courses | | | |
| MAT 142 Calculus I..... | 4 | _____ | _____ |
| MAT 241 Calculus II | 4 | _____ | _____ |

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|---|-------------------|------------|-------|
| Required Computer Science Courses | <u>44</u> | | |
| CS 200 Discrete Structures..... | 3 | _____ | _____ |
| CS 220 Data Structures | 3 | _____ | _____ |
| CS 240 Intro to Project Management | 3 | _____ | _____ |
| CS 310 System Architecture & Assembly Language Programming | 3 | _____ | _____ |
| CS 315 Operating Systems Analysis & Admin | 3 | _____ | _____ |
| CS 330 Networks & Distributed Data Processing..... | 3 | _____ | _____ |
| CS 340 System Analysis & Design..... | 3 | _____ | _____ |
| CS 350 Ethics & Professionalism in Computer Programming | 3 | _____ | _____ |
| CS 355 Introduction to Geographic Information Systems | 3 | _____ | _____ |
| CS 360 Security of Information Systems | 3 | _____ | _____ |
| CS 410 Server Administration | 3 | _____ | _____ |
| CS 411 Server Administration Lab | 1 | _____ | _____ |
| CS 435 Software Engineering | 3 | _____ | _____ |
| CS 450 Database Development & Administration..... | 3 | _____ | _____ |
| CS 451 Database Development & Admin Lab | 1 | _____ | _____ |
| <i>Choose one from the following:</i> | | | |
| CS 480 Capstone | 3 | _____ | _____ |
| CS 498 Internship..... | 3 | _____ | _____ |
| Database Management Concentration | <u>15</u> | | |
| CS 320 Operating Systems II | 3 | _____ | _____ |
| CS 370 Wireless Networking and Devices | 3 | _____ | _____ |
| CS 437 Software Engineering II | 3 | _____ | _____ |
| CS 455 Advanced Database Applications..... | 3 | _____ | _____ |
| CS 475 Digital Forensics..... | 3 | _____ | _____ |
| Elective Hours..... | <u>9</u> | | |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| Total Hours Required for the B.S. Degree | <u>120</u> | | |

* Minimum 2.0 GPA required for graduation

** A minimum of 42 hours must be earned in courses numbered 300 or above