

**B.S. COMPUTER INFORMATION SYSTEMS
DEGREE REQUIREMENTS (2021-2022)**
Application Development and Support 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	_____	_____
Application Development and Support Concentration	<u>15</u>		
CS 230 Design and Analysis of Algorithms	3	_____	_____
CS 305 Information Systems Applications	3	_____	_____
CS 370 Wireless Networking and Devices	3	_____	_____
CS 430 Mobile Programming and Web Applications.....	3	_____	_____
CS 437 Software Engineering II	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