Bachelor of Science in Computer Information Systems (BS) Academic Requirements

CIS Major Requirements	(36 + 20) = 56 HRS
Required Courses	36
CIS 110 Introduction to Object-Oriented	4
Programming	
CIS 130 Computer systems Hardware	4
CIS 210 Object-Oriented Programming	4
*CIS 240 Database Management Concepts	4
*CIS 300 Management Information Systems	4
CIS 303 Discrete Structure	4
*CIS 315 Technical Writing for CIS	4
*CIS 325 Data Structures (Using C++)	4
*CIS 460 Senior Project	4
Concentration #1	
Database Systems Management	20 HRS
*CIS 220 Client-Side Web Development	4
*CIS 310 Database Security Management	4
*CIS 320 Server-Side Web Development	4
*CIS 340 Database Management	4
*CIS 440 Topics in Advanced Databases	4
Concentration #2	
Network Systems Administrator	20 HRS
CIS 216 Operating Systems	4
CIS 217 Computer Networks	4
*CIS 328 Network Systems Security	4
*CIS 360 Advanced Topics in Networks	4
*CIS 370 Network Management	4
Concentration #3	
Web-based applications	20 HRS
*CIS 220 Client-Side Web Development	4
*CIS 312 Advanced Applications Programming	4
With Visual Basic	
*CIS 320 Server-Side Web Development	4

*CIS 328 Network Systems Security		4
*CIS 400 Ecommerce		4
General Education Requirements	40 HRS	
ENG 160 Composition I		4
ENG 162 Composition II		4
ENG 165 Speech		4
MAT 225 Statistics		4
PHY 103 Earth Science OR		4
BIO 102 Introduction to Human Biology		
HUM 202 Humanities I OR		4
ENG 203 American Culture and Literature OR		
PHI 200 Introduction to Philosophy OR		
PHI 220 Ethics		
SPA 222 The Hispanic-American Experience		
Through Literature OR		
HUM 202 Humanities I		4
HUM 204 Music Appreciation OR		4
HUM 205 History and Appreciation of Art		
HIS 104 Survey of U.S. History to 1865 OR		4
HIS 105 Survey of U.S. History 1865 to Present OR		
PSC 103 American Government and Politics		
PSY 101 General Psychology OR		4
SOC 101 Introduction to Sociology		
Elective Credits	24 HRS	
Total Credit Hours Required	120 HRS	