COMPUTER INFORMATION SYSTEMS MAJOR

Available concentrations are Computer Game Technology (https://catalog.bradley.edu/undergraduate/programs/computer-information-systems-computer-game-technology-concentration/); Data Science (https://catalog.bradley.edu/undergraduate/programs/computer-information-systems-data-science-concentration/); Mobile Computing (https://catalog.bradley.edu/undergraduate/programs/computer-information-systems-mobile-computing-concentration/); and Software, Web, and Computer Security (https://catalog.bradley.edu/undergraduate/programs/computer-information-systems-software-web-computer-security-concentration/),

The general requirements for the computer information systems major are:

Code	Title H	lours	
Computer Science and Computer Information Systems			
45 semester hour	9		
CS 101	Introduction to Programming	4.0	
CS 102	Data Structures	3.0	
CS 200	Advanced Programming Concepts and Languages	3.0	
CS 210	Advanced Data Structures and Algorithms	3.0	
CS 220	Computer Architecture	3.0	
CS 370	Database Management Systems	3.0	
CIS 393	Web Technologies & Systems	3.0	
CS 480	Social and Professional Issues in Computing	2.0	
CIS 430	Information Technology Infrastructure	3.0	
CIS 445	Integrative Programming and Technology	3.0	
CIS 475	Computer Information Systems Analysis. Design and Integration	3.0	
CIS 491	Computer Information System Project Management	3.0	
Select one of the	Select one of the following:		
MIS 379	Information Systems Security (or equivalent)		
CIS 415	Applied Cryptography		
CIS 435	Computer Networks and System Security		
CIS 495	Software and Web Applications Security		
Mathematics			
MTH 120 & MTH 111	Discrete Mathematics and Elementary Statistics (or equivalents) 1	6.0	
Psychology			
PSY 101 & PSY 320	Principles of Psychology and Human Factors Psychology (or equivalents)	6.0	
Communication			
Select one of the	following: (or equivalents)	3.0	
COM 292	Organizational Communication (recommended)		
M L 354	Maximizing Effectiveness in Organizations		
COM 300	Communication Theory		
English			
ENG 305	Advanced Writing-Technical Writing (or equivalents)	3.0	
or ENG 306	Advanced WritingBusiness Communication		

Management, Leadership, and Entrepreneurship

Total Hours		63
ENT 280	Entrepreneurial Creativity	
ENT 381	Entrepreneurship for Non-Business Students	
ENT 385	Technology Entrepreneurship (recommended)	
Select one of the following: (or equivalents)		
M L 350	Managing for Results in Organizations	3.0

¹ MTH 115 Brief Calculus With Applications I is recommended.