## Bachelor of Science in Computer Science with a Concentration in Applied Computing MAJOR REQUIREMENTS/COMPUTER SCIENCE: 51 Credits Credits CS102: Introduction to Computing and Problem Solving CS175: Introduction to Computer Science I 4.0 CS176: Introduction to Computer Science II 4.0 CS202: Discrete Math and Applications 4.0 CS286: Computer Architecture I 3.0 CS205: Data Structures and Algorithms 4.0 CS325: Software Engineering Concepts 3.0 CS310: Advanced Object Oriented Programming/Design 4.0 CS432: Database Systems 4.0 CS438: Operating Systems Analysis 4.0 CS490: Senior Project 4.0 Take 6 Credits of Computer Science 200+ level: 6.0 CS200+: (See Exceptions\*) CS200+: (See Exceptions\*) \*Except the following courses: CS288, CS388, CS488 Take 3 Credits of Computer Science 400+ level: 3.0 CS400+: (Except CS488) REQUIREMENTS OUTSIDE MAJOR: 4 Credits Credits Take 4 Credits of Mathematics from the following courses: 4.0 MA109: Pre-calculus Mathematics or MA-xxx\*: \*(except MA100, MA101, MA103, MA105, MA107, MA120, MA130, MA203, MA204, or MA237) FREE ELECTIVES: 34 Credits Credits 34.0

## **MONMOUTH UNIVERSITY CURRICULUM CHART**

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ENERAL EDUCATION REQUIREMENTS: 39 Credits		Credits
First Year Seminar	FY-101: First Year Seminar	3.0
Reading and Writing	EN101: College Composition I	3.0
	EN102: College Composition II	3.0
Mathematics	Fulfilled in Outside Major Requirements with MA109 or higher	0.0
Natural Sciences	6 Credits from subjects BY, CE, PH, or SC	6.0
Literature	3 Credits from courses designated with Course*Type: LIT	3.0
Aesthetics and Creativity	3 Credits from Art, Music, Theatre, or Dance	3.0
Technological Literacy	Fulfilled in Major Requirements with CS102	0.0
Reasoned Oral Discourse	Fulfilled in Outside Major Requirements with CS490	0.0
Historical Perspective	3 Credits from courses designated with Course*Type: HS.SV	3.0
Social Science	3 Credits from courses designated with Course*Type: SS.SV	3.0
Historical Perspective/Social	3 Credits from courses designated with Course*Type: HS.SV	3.0
Sciences	or 3 Credits from courses designated with Course*Type: SS.SV	
Interdisciplinary Perspectives	3 Credits from courses designated with Course*Type: ISP	3.0
Cultural Diversity and Global	3 Credits from courses designated with Course*Type: CD	6.0
Understanding	and 3 Credits from courses designated with Course*Type: GU	
or Foreign Language	or 6 Credits from the SAME foreign language	
Experiential Education	One course designated with Course*Type: EX	0.0
Writing Intensive	Two courses from Computer Science (CS) designated	0.0
	with Course*Type: WT	0.0

Minimum Credits for Bachelor of Science in Computer Science with a Concentration in Applied Computing = 128.0

## NOTES:

<sup>\* 58</sup> credits must be completed at the 200 level or higher.