MONMOUTH UNIVERSITY CURRICULUM CHART

Bachelor of Science in Computer Science - Track 'A' - Advanced Computing

MAJOR REQUIREMENTS/COMPUTER SCIENCE: 51 Credits		Credits
	CS102: Introduction to Computing and Problem Solving	4.0
	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
	CS305: 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
6 credits of CS Electives from 200+ level	CS200+: *(See Exceptions*)*	3.0
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	**Except the following courses: CS288, CS388, CS488, CS212 CS222, CS302, CS312, CS316, CS320, CS322, and CS330*	
3 credits of CS Electives from 400+ level	CS400+: *(Except CS488)*	3.0
REQUIREMENTS OUTSIDE MAJOR: 26 Credits		**Credits**
	MA125: Calculus with Analytic Geometry I	4.0
	MA126: Calculus with Analytic Geometry II	4.0
	MA319: Probability and Statistics I	3.0
12 credits from subjects BY, CE, PH	**Take one Group:**	
	BY111: Anatomy and Physiology I **AND**	
	BY112: Anatomy and Physiology II	
	or	
	CE111/CE111L: General Chemistry I/Lab **AND**	
	CE112/CE112L: General Chemistry II/Lab	
	or	
	PH105/PH105L: Physics and Life Science I/Lab **AND**	
	PH106/PH106L: Physics and Life Science II/Lab	
	or	
	PH211/PH211L: General Physics with Calculus I/Lab **AND**	
	PH212/PH212L: General Physics with Calculus II/Lab	
	or	
	BY109: Introduction to Biodiversity and Evolution **AND**	
	BY110: Introduction to Cell and Molecular Biology	8.0
Select one additional science course:	BY/CE/PH-XXX:_____	4.0
	**Except BY101, BY104, BY105, CE101, and PH101*	
3 credits from subjects BY, CE, PH, MA*	BY/CE/PH/MA-XXX*:	3.0
	**MA-XXX course must be beyond MA118*	
FREE ELECTIVES: 18 Credits		**Credits**
	_____	18.0

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GENERAL EDUCATION REQUIREMENTS: 33 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 MA125 or MA126	0.0
Natural Sciences		Fulfilled in Outside Major Requirements with required courses	0.0
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 Sciences		3 Credits from courses designated with Course*Type: HS.SV 3 Credits from courses designated with Course*Type: SS.SV	3.0
Interdisciplinary Perspectives		3 Credits from courses designated with Course*Type: ISP	3.0
Cultural Diversity/Global Understanding		3 Credits from courses designated with Course*Type: CD 3 Credits from courses designated with Course*Type: GU	
	or	6 Credits from the SAME foreign language	6.0
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

Total Credits for Bachelor of Science in Computer Science - Track 'A' - Advanced Computing = 128

NOTES:

*** 58 credits must be completed at the 200 level or higher.**

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