BACHELOR OF SCIENCE IN COMPUTER SCIENCE - THREAD: MODELING-SIMULATION & INFORMATION INTERNETWORKS

Wellness Requirement APPH 1040 Scientific Foundations of Health 2 or APPH 10 The Science of Physical Activity and Health 2 or APPH 10 Flourishing: Strategies for Well-being and Resilience Secondary Strategies for Well-being and Resilience Core IMPACTS Institutional Priority CS 1301 Introduction to Computing ¹ 3 Mathematics and Quantitative Skills MATH 1552 Integral Calculus 4 Political Science and U.S. History HIST 2111 The United States to 1877 3 or INTA 120@merican Government in Comparative Perspective or POL 110 Government of the United States or PUBP 3000merican Constitutional Issues Arts, Humanities, and Ethics Any HUM 6 Communicating in Writing ENGL 1101 English Composition II 3 ENGL 1101 English Composition II 3 Technology, Mathematics, and Sciences Lab Science BMATH 1551 Differential Calculus 2	Code	Title	Credit Hours	
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			3	

CS 3001	Computing, Society, and Professionalism		
CS 4001	Computing, Society, and Professionalism		
CS 4002	Robots and Society		
CS 4003	AI, Ethics, and Society		
CS 4726	Privacy, Technology, Policy, and Law		
SLS 3110	Technology and Sustainable Community Development		
Junior Design	Options (Capstone)		
Junior Design	Option ^{1,3}	6	
Concentration			
CS 2110	Computer Organization and Programming ¹	4	
CS 2200	Computer Systems and Networks ¹	4	
CS 3510	Design and Analysis of Algorithms ¹	3	
or CS 3511	Design and Analysis of Algorithms, Honors		
MATH 2552	Differential Equations ¹	4	
Select six cred	dit hours of the following for Introduction to	6	
Information M			
CS 3235	Introduction to Information Security		
CS 3251	Computer Networking I		
CS 4400	Introduction to Database Systems		
Select one of to Management:	the following for Advanced Information	3	
CS 3235	Introduction to Information Security (if		
	not taken for Introduction to Information		
	Management)		
CS 3251	Computer Networking I (if not taken for Introduction to Information Management)		
CS 4251	Computer Networking II		
CS 4255	Introduction to Network Management		
CS 4261	Mobile Applications and Services for Converged Networks		
CS 4262	Network Security		
CS 4270	Data Communications Laboratory		
CS 4365	Introduction to Enterprise Computing		
CS 4400	Introduction to Database Systems (if not taken for Introduction to Information Management)		
CS 4420	Database System Implementation		
CS 4440	Emerging Database Technologies and Applications		
CS 4675	Internet Computing Systems, Services and Applications		
Select six credit hours of the following for Computational 6			
Science and E			
CS 4641	Machine Learning		
CX 4140	Computational Modeling Algorithms		
CX 4220	Introduction to High Performance Computing		
CX 4230	Computer Simulation		
CX 4640	Numerical Analysis I		
Other Require	d Courses		
MATH 3012	Applied Combinatorics	3	
Select one of	the following:	3	
MATH 3215	Introduction to Probability and Statistics		
MATH 3670	Probability and Statistics with Applications		
CEE 3770	Statistics and Applications		

ISYE 3770 Statistics and Applications or ISYE 2027 bability with Applications & ISYE 3020 Basic Statistical Methods

Total Credit Hours	126
Free Electives	15
Free Electives	

Pass-fail only allowed for Free Electives (max six credit hours) and CS 1100.

- ¹ Minimum grade of C required.
- ² Two of three labs MUST be a sequence.
- Junior Design Options are as follows (students must pick one option and may not change):
 - Option 1 LMC 3432, LMC 3431, CS 3311,CS 3312.
 - · Option 2 ECE VIP courses and LMC 3403.
 - · Option 3 Satisfy Georgia Tech Research Option.
 - Option 4 CS 2701 (3 hours), CS 4699-I2P (3 hours), LMC 3403 (3 hours) = 9 hours OR CS 4699-I2P (6 hours), LMC 3403 (3 hours) = 9 hours
 - Option 5 CS 4723 (3 hours), LMC 3403 (3 hours) = 6 hours

Six credits of the Junior Design option are used as Major Requirements and the overage credits of research/VIP (5 credit hours/2 credit hours) may be used as free electives. Students completing VIP for their junior design requirement will be required to complete at least three semesters of VIP. (VIP 1 + VIP 2 + VIP 3) (for a total of 5 credit hours) + LMC 3403 = 8 hours of VIP credit.

Students using CREATE-X for junior design take at least 6 hours of CREATE-X Start-ip Lab and Idea 2 Prototype (I2P) and 3 of the 6 hours must be I2P. Students take these 6 hours with LMC 3403 (3 hours) for a total of 9 hours. Extra three hours for CREATE-X option can be used in free electives.

Two credit hours of MATH 1554 may count along with MATH 2550 to give Field of Study 18 credit hours.