BACHELOR OF SCIENCE IN COMPUTER SCIENCE - THREAD: DEVICES & CYBERSECURITY AND PRIVACY

Code	Title	Credit Hours
Wellness Requ	uirement	
APPH 1040	Scientific Foundations of Health	2
or APPH 10	The Science of Physical Activity and Health	
or APPH 10	Flourishing: Strategies for Well-being and Resilience	
Core IMPACTS	3	
Institutional P	riority	
CS 1301	Introduction to Computing ¹	3
Mathematics	and Quantitative Skills	
MATH 1552	Integral Calculus	4
Political Scien	nce and U.S. History	
HIST 2111	The United States to 1877	3
or HIST 21	17he United States since 1877	
or INTA 120	Ommerican Government in Comparative Perspective	
	1Government of the United States	
	000merican Constitutional Issues	
	ies, and Ethics	
Any HUM	ico, una Euroo	6
Communicati	na in Writina	Ŭ
ENGL 1101	English Composition I	3
ENGL 1101	English Composition II	3
	Inthematics, and Sciences	3
PHYS 2211	Introductory Physics I ²	4
Lab Science ²		4
MATH 1551	Differential Calculus	
	E	2
MATH 1554	_	4
	56ihear Algebra with Abstract Vector Spaces	
Social Science	es	
Any SS		9
Field of Study		
Lab Science ²		4
CS 1100	Freshman Leap Seminar	1
CS 1331	Introduction to Object Oriented Programming '	3
CS 1332	Data Structures and Algorithms for Applications ¹	3
CS 2050	Introduction to Discrete Mathematics for Computer Science ¹	3
or CS 2051	Honors - Induction to Discrete Mathematics for Com Science	puter
MATH 2550	Introduction to Multivariable Calculus ⁵	2
Major Require		
CS 2340	Objects and Design ¹	3
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Coloot one for	Professionalism/Ethics requirement: 1,3	3	
CS 3001		3	
	Computing, Society, and Professionalism		
CS 4001	Computing, Society, and Professionalism		
CS 4002	Robots and Society		
CS 4003	Al, Ethics, and Society		
CS 4726	Privacy, Technology, Policy, and Law		
SLS 3110	Technology and Sustainable Community Development		
_	Options (Capstone)		
Junior Design	Option ^{1,4}	6	
Concentration			
CS 2110	Computer Organization and Programming 1	4	
CS 2200	Computer Systems and Networks ¹	4	
CS 3235	Introduction to Information Security ¹	3	
CS 3237	Human Dimension of Cybersecurity: People,	3	
	Organizations, Societies		
CS 3251	Computer Networking I 1	3	
CS 3510	Design and Analysis of Algorithms ¹	3	
or CS 3511	Design and Analysis of Algorithms, Honors		
ECE 2031	Digital Design Laboratory ¹	2	
Select at least and Systems:	t nine credit hours of the following for Society	9	
CS 4117	Introduction to Malware Reverse Engineering		
CS 4238	Computer Systems Security		
CS 4239	Enterprise Cybersecurity Management		
CS 4243	Cyber Warfare		
CS 4262	Network Security		
CS 4263	Psychology of Cybersecurity		
CS 4265	Technical Introduction to Blockchain and Cryptocurrencies		
CS 4267	Critical Infrastructures Security and Resilience		
CS 4725	Information Security Strategies and Policies		
CS 4726	Privacy, Technology, Policy, and Law		
	the following for Building Devices: 1	4	
CS 3651	Prototyping Intelligent Devices		
ECE 4180	Embedded Systems Design		
	the following for Devices in the Real World: 1	3	
CS 3630	Introduction to Perception and Robotics		
CS 4261	Mobile Applications and Services for		
00 1201	Converged Networks		
CS 4605	Mobile and Ubiquitous Computing		
CS 4476	Introduction to Computer Vision		
Other Require	ed Courses		
MATH 3012	Applied Combinatorics	3	
Select one of	the following:	3	
	5Introduction to Probability and Statistics		
	OProbability and Statistics with Applications		
CEE 3770	Statistics and Applications		
	Statistics and Applications		
or ISYE 2 02 0 bability with Applications			
& ISYE 20208d Basic Statistical Methods			
Free Electives			

Free Electives 7

Total Credit Hours

126

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

- Minimum grade of C required.
- ² Two of three labs MUST be a sequence.
- 3 CS 4726 will satisfy the Professionalism/Ethics requirement or Society and Systems, but not both.
- 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.