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

Code	Title	Credit Hours
Wellness Rec	juirement	
APPH 1040	Scientific Foundations of Health	2
or APPH 1	0 The Science of Physical Activity and Health	
or APPH 1	0 Flourishing: Strategies for Well-being and Resilience	9
Core IMPACT	S	
Institutional I	Priority	
CS 1301	Introduction to Computing ¹	3
Mathematics	and Quantitative Skills	
MATH 1552	Integral Calculus	4
Political Scie	nce and U.S. History	
HIST 2111	The United States to 1877	3
or HIST 21	17 he United States since 1877	
or INTA 12	OAmerican Government in Comparative Perspective	
or POL 110	DIGovernment of the United States	
or PUBP 3	000merican Constitutional Issues	
Arts, Humani	ties, and Ethics	
Any HUM		6
Communicati	ing in Writing	
ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
Technology, I	Mathematics, and Sciences	
Lab Science		8
MATH 1551	Differential Calculus	2
MATH 1554	Linear Algebra ⁵	4
or MATH 1	5Linear Algebra with Abstract Vector Spaces	
Social Science		
Any SS ⁶		9
Field of Study	V	
PHYS 2211	Principles of Physics I ²	4
CS 1100	Freshman Leap Seminar	1
CS 1331	Introduction to Object Oriented Programming ¹	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 Con Science	nputer
MATH 2550	Introduction to Multivariable Calculus ⁵	2
Major Require		
CS 2340	Objects and Design ¹	3
	r Professionalism/Ethics requirement: 1,3	3
CS 3001	Computing, Society, and Professionalism	
CS 4001	Computing, Society, and Professionalism	
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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		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, Organizations, Societies ¹	3		
CS 3750	Human Computer Interface Design and Evaluation ¹	3		
or CS 3751	Introduction to User Interface Design			
PSYC 2012	Introduction to Research Methods ¹	3		
Select nine credit hours of the following for Society and Systems: 1,3,				
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			
Select six credit hours of the following for Human-Centered Technology. 1				
CS 3790	Introduction to Cognitive Science			
CS 4660	Introduction to Educational Technology			
CS 4460	Introduction to Information Visualization			
CS 4470	Introduction to User Interface Software			
CS 4472	Design of Online Communities			
CS 4605	Mobile and Ubiquitous Computing			
CS 4745	Information and Communication Technologies and Global Development			
Select one of the following for Social/Behavioral Science for Computing: 1				
PSYC 2210	Social Psychology			
PSYC 2760	Human Language Processing			
PSYC 3040	Sensation and Perception			
Other Required Courses				
MATH 3012	Applied Combinatorics	3		
Select one of	the following:	3		
MATH 3215Introduction to Probability and Statistics				
MATH 3670Probability and Statistics with Applications				
CEE 3770	Statistics and Applications			
ISYE 3770	Statistics and Applications			
or ISYE 2 02 7bability with Applications & ISYE 3020d Basic Statistical Methods				

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Pass-fail only allowed for Free Electives (max 6 credit hours) and CS 1100.

- Minimum grade of C required.
- ² Two of three lab sciences MUST be a sequence.
- ³ CS 4726 will satisfy the Professionalism/Ethics requirement area or Society and Systems, but not both.
- ⁴ 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.
- ⁶ PSYC 1101 is highly encouraged as this course serves as a pre-requisite to other required courses.