

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

Code	Title	Credit Hours
Wellness Requirement		
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		
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 HIST 2112 The United States since 1877	
	or INTA 1200 American Government in Comparative Perspective	
	or POL 1101 Government of the United States	
	or PUBP 3000 American Constitutional Issues	
Arts, Humanities, and Ethics		
Any HUM		6
Communicating in Writing		
ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
Technology, Mathematics, and Sciences		
PHYS 2211	Introductory Physics I ²	4
	Lab Science ²	4
MATH 1551	Differential Calculus	2
MATH 1554	Linear Algebra ⁵	4
	or MATH 1555 Linear Algebra with Abstract Vector Spaces	
Social Sciences		
PSYC 1101	General Psychology	3
Any SS		6
Field of Study		
	Lab Science 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 Computer Science	
MATH 2550	Introduction to Multivariable Calculus ⁵	2
Major Requirements		
CS 2340	Objects and Design ¹	3
	Select one for Professionalism/Ethics requirement: ^{1,3}	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 ^{1,4}	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, 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}	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	
	Select six credit hours of the following for Human-Centered Technology: ¹	6
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	3
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 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 Probability with Applications
 & ISYE 2028 Basic Statistical Methods

Free Electives	
Free Electives	7
Total Credit Hours	126

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

¹ 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-up 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.

⁵ Two credit hours of MATH 1554 may count along with MATH 2550 to give Field of Study 18 credit hours.