## **BACHELOR OF SCIENCE IN COMPUTER SCIENCE** - THREAD: MEDIA 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	<del>j</del>	
Core IMPACTS	S		
Institutional P	•		
CS 1301	Introduction to Computing <sup>1</sup>	3	
<b>Mathematics</b>	and Quantitative Skills		
MATH 1552	Integral Calculus	4	
<b>Political Scien</b>	ice and U.S. History		
HIST 2111	The United States to 1877	3	
or HIST 211	The United States since 1877		
or INTA 120	American Government in Comparative Perspective		
or POL 110	1Government of the United States		
or PUBP 30	Onerican Constitutional Issues		
Arts, Humanit	ies, and Ethics		
Any HUM		6	
Communicatin	ng in Writing		
ENGL 1101	English Composition I	3	
ENGL 1102	English Composition II	3	
Technology, M	lathematics, and Sciences		
	Introductory Physics I <sup>2</sup>	4	
Lab Science <sup>2</sup>		4	
MATH 1551	Differential Calculus	2	
MATH 1554	Linear Algebra <sup>5</sup>	4	
or MATH 15	56ihear Algebra with Abstract Vector Spaces		
Social Science			
Any SS		9	
Field of Study			
Lab Science <sup>2</sup>		4	
CS 1100	Freshman Leap Seminar	1	
CS 1331	Introduction to Object Oriented Programming <sup>1</sup>	3	
CS 1332	Data Structures and Algorithms for Applications <sup>1</sup>	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 <sup>5</sup>	2	
Major Require			
CS 2340	Objects and Design <sup>1</sup>	3	
	the Professionalism/Ethics requirement: 1,3	3	
CS 3001	Computing, Society, and Professionalism	J	
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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	
Junior Design	Options (Capstone)	
Junior Design	Option <sup>1,4</sup>	6
Concentration	1	
CS 2110	Computer Organization and Programming <sup>1</sup>	4
CS 2200	Computer Systems and Networks <sup>1</sup>	4
CS 3235	Introduction to Information Security <sup>1</sup>	3
CS 3237	Human Dimension of Cybersecurity: People, Organizations, Societies <sup>1</sup>	3
Select three o	f the following for Media Technologies: <sup>1</sup>	9
CS 3451	Computer Graphics	
CS 4455	Video Game Design and Programming	
CS 4460	Introduction to Information Visualization	
CS 4464	Computational Journalism	
CS 4475	Computational Photography	
CS 4488	Procedural Content Generation	
CS 4496	Computer Animation	
CS 4590	Principles and Applications of Computer Audio	
Select nine cr Systems: 1,3	edit hours of the following for Society and	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	
Other Require	d Courses	
MATH 3012	Applied Combinatorics	3
Select one of	the following:	3
MATH 321	5Introduction to Probability and Statistics	
MATH 367	OProbability and Statistics with Applications	
CEE 3770	Statistics and Applications	
ISYE 3770	Statistics and Applications	
	2 <b>୧</b> ୨2ଟିbability with Applications ୧୦ <b>୫୨୪</b> Basic Statistical Methods	
Free Electives		
Free Electives		13
Total Credit Hours		126
Pass-fail only and CS 1100.	allowed for Free Electives (max six credit hours )	
<sup>1</sup> Minimum a	rade of C required	

Minimum grade of C required.
Two of three lab sciences MUST be a sequence.

- <sup>3</sup> 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.