BACHELOR OF SCIENCE IN COMPUTER SCIENCE -THREAD: INFORMATION INTERNETWORKS & MEDIA

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	è		
Core IMPACTS	3			
Institutional P	Institutional Priority			
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 211	17 he United States since 1877			
or INTA 120	American Government in Comparative Perspective			
or POL 110	1Government of the United States			
or PUBP 30	000merican 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, Mathematics, and Sciences				
Lab Science ²		8		
MATH 1551	Differential Calculus	2		
MATH 1554	Linear Algebra ⁴	4		
or MATH 1	5Linear Algebra with Abstract Vector Spaces			
Social Sciences				
Any SS		9		
Field of Study				
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 Com Science	nputer		
MATH 2550	Introduction to Multivariable Calculus ⁴	2		
Major Require				
CS 2340	Objects and Design ¹	3		
Select one for	Professionalism/Ethics requirement: 1	3		
CS 3001	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		
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		
Select six credit hours of the following for Introduction to 6 Information Management: 1			
CS 3235	Introduction to Information Security		
CS 3251	Computer Networking I		
CS 4400	Introduction to Database Systems		
Select one of the following for Advanced Information Management: ¹		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 for Information Management)		
CS 4420	Database System Implementation		
CS 4440	Emerging Database Technologies and Applications		
CS 4675	Internet Computing Systems, Services and Applications		
Select three of	f the following for Media Technologies: 1	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		
Other Required	d 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 2027 bability with Applications & ISYE 30210d Basic Statistical Methods

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

- 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.

⁴ Two credit hours of MATH 1554 may count along with MATH 2550 to give Field of Study 18 credit hours.