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BACHELOR OF SCIENCE IN COMPUTER SCIENCE -THREAD: MEDIA & PEOPLE

Code	Title	Credit Hours
Wellness Req	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	ŝ
Core IMPACTS	3	
Institutional P	Priority	
CS 1301	Introduction to Computing ¹	3
Mathematics	and Quantitative Skills	
MATH 1552	Integral Calculus	4
Political Scier	nce and U.S. History	
HIST 2111	The United States to 1877	3
or HIST 21	1 2 he United States since 1877	
or INTA 120	Mamerican Government in Comparative Perspective	
or POL 110	1Government of the United States	
or PUBP 30	000 merican Constitutional Issues	
Arts, Humanit	ies, and Ethics	
Any HUM		6
Communicati	ng in Writing	
ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
Technology, N	lathematics, and Sciences	
Lab Science ²		8
MATH 1551		2
MATH 1554	E	4
	5Linear Algebra with Abstract Vector Spaces	
Social Science		
Any SS ⁶		g
Field of Study		5
PHYS 2211	Principles of Physics I ²	4
CS 1100	Freshman Leap Seminar	4
CS 1331	Introduction to Object Oriented Programming ¹	3
CS 1331	Data Structures and Algorithms for	3
	Applications ¹	
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	ments	
CS 2340	Objects and Design ¹	3
Select one for	the 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	
	options (Capstone)	
Junior Design		6
Concentration	·	
CS 3750	Human Computer Interface Design and Evaluation ¹	3
	Introduction to User Interface Design	
Select one of the following for Media Architectures: ¹		4
CS 2110	Computer Organization and Programming	
CS 2261	Media Device Architectures	
PSYC 2012	Introduction to Research Methods	3
	of the following for Media Technologies: ^{1,3}	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 six credit hours of the following for Human-Centered Technology: ^{1,3}		
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 Require	ed Courses	
MATH 3012	Applied Combinatorics	3
Select one of	the following:	3
MATH 321	5Introduction to Probability and Statistics	
MATH 367	0Probability and Statistics with Applications	
CEE 3770	Statistics and Applications	
ISYE 3770	Statistics and Applications	
or ISYE	2Probability with Applications	
& ISYE 3	8(and Basic Statistical Methods	
Free Electives	6	
Free Electives	3	17
Total Credit H	lours	126
Pass-fail only	allowed for Free Electives (max six credit hours)	

and CS 1100.

¹ Minimum grade of C required.

² Two of three lab sciences MUST be a sequence.

- ³ If CS 4460 is successfully completed, one of the Media Technologies is fulfilled, one of the Human-Centered Technology is fulfilled, and an additional 3 credit hour Thread Elective is required. Thread Electives can be chosen from the following courses: CS 2110, CS 2261, CS 3240, CS 3510, CS 3790, CS 4455, CS 4464, CS 4470, CS 4472, CS 4475, CS 4480, CS 4496, CS 4550, CS 4590, CS 4605, CS 4660, CS 4665, CS 4670, CS 4690, CS 4770, CS 4745, CS 4793, PSYC 2020, PSYC 2210, PSYC 2760, PSYC 3012, PSYC 3040, PSYC 4090, PSYC 4260 or CX 4236.
- 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.

- ⁵ 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