BACHELOR OF SCIENCE IN COMPUTATIONAL MEDIA -INTELLIGENCE - GAMES

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			
Core IMPACTS	S			
Institutional F	Priority			
CS 1301	Introduction to Computing ¹	3		
or CS 1315	Introduction to Media Computation			
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 21	17 he United States since 1877			
or INTA 120	Ommerican Government in Comparative Perspective			
or POL 110	Government of the United States			
or PUBP 30	000merican Constitutional Issues			
Arts, Humanit	ties, and Ethics			
Any HUM		6		
Communicati	na in Writina			
ENGL 1101	English Composition I	3		
ENGL 1102	English Composition II	3		
	Mathematics, and Sciences			
Lab Science	,	8		
MATH 1551	Differential Calculus	2		
MATH 1554	3	4		
	5Linear Algebra with Abstract Vector Spaces	·		
Social Sciences				
Any SS 4		9		
Field of Study		,		
CS 1331	Introduction to Object Oriented Programming ¹	3		
CS 1332	Data Structures and Algorithms for	3		
00 1002	Applications ¹	Ü		
CS 2050	Introduction to Discrete Mathematics for Computer Science ¹	3		
CS 2340	Objects and Design ¹	3		
LMC 2700	Introduction to Computational Media ¹	3		
MATH 2550	Introduction to Multivariable Calculus ³	2		
Major Require	ements			
CS 2110	Computer Organization and Programming	4		
CS 4001	Computing, Society, and Professionalism	3		
or CS 3001	Computing, Society, and Professionalism			
	Privacy, Technology, Policy, and Law			
or SLS 311(Technology and Sustainable Community Development				
Junior Design Options (Capstone)				

Junior Design Option 1,2

CS 3600 Introduction to Artificial Intelligence Embodied Intelligence (select one): CS 3630 Introduction to Perception and Robotics CS 3790 Introduction to Cognitive Science PSYC 3040 Sensation and Perception Approaches to Intelligence (select three): CS 4476 Introduction to Computer Vision CS 4510 Automata and Complexity Theory CS 4635 Knowledge-Based Artificial Intelligence CS 4641 Machine Learning CS 4649 Robot Intelli Planning CS 4650 Natural Language Understanding CS 4731 Game AI Games Requirements LMC 2410 Introduction to Game Studies LMC 4710 Game Studio Design course (select one): LMC 2730 Constructing the Moving Image LMC 3710 Principles of Interaction Design Game Design courses (select three): LMC 4720 Interactive Narrative LMC 4720 Experimental Digital Art LMC 4731 Game AI	Total Credit Hours		
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CS 3600 Introduction to Artificial Intelligence 1 Embodied Intelligence (select one): 1 CS 3630 Introduction to Perception and Robotics CS 3790 Introduction to Cognitive Science PSYC 3040 Sensation and Perception Approaches to Intelligence (select three): 1 CS 4476 Introduction to Computer Vision CS 4510 Automata and Complexity Theory CS 4635 Knowledge-Based Artificial Intelligence CS 4641 Machine Learning CS 4649 Robot Intelli Planning CS 4650 Natural Language Understanding CS 4731 Game Al Games Requirements 5 LMC 2410 Introduction to Game Studies 1 LMC 4710 Game Studio 1 Design course (select one): 1 LMC 2730 Constructing the Moving Image LMC 3710 Principles of Interaction Design Game Design courses (select three): 1 LMC 4720 Interactive Narrative LMC 4725 Games Design as a Cultural Practice LMC 4731 Game Al CM or Media Courses (select three): 1 LMC 2400 Introduction to Media Studies LMC 2500 Introduction to Film LMC 3206 Communication and Culture LMC 3314 Technologies of Representation LMC 3406 Video Production		·	
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CS 3600 Introduction to Artificial Intelligence ¹	CS 3630	Introduction to Perception and Robotics	
	Embodied Inte	elligence (select one): ¹	3
Design and Analysis of Algorithms	CS 3600	Introduction to Artificial Intelligence ¹	3
CS 3510 Design and Analysis of Algorithms 1	CS 3510	Design and Analysis of Algorithms ¹	3

Pass Fail is allowed for Free electives.

- ¹ Minimum grade of C required.
- Junior Design Options are as follows (students must pick one option and may not change):
 - Option 1
 - LMC 3432LMC 3432LMC 3432LMC 3432LMC 3432, LMC 3431, CS 3311,CS 3
 - Option 2 ECE VIP courses and LMC 3403.
 - · Option 3 Satisfy Georgia Tech Research Option
 - Option 4- CS 2701 (3

hours), CS 4699CS 4699CS 4699CS 4699CS 4699-I2P (3 hours), LMC 3403 (3 hours) = 9 hours

12P (3 Hours), LIVIC 3403 (3 Hours) = 9 Hours

OR CS 4699CS 4699CS 4699CS 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

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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 credits of MATH 1554 may count along with MATH 2550 to give Field of Study 18 credit hours.
- PSYC 1101 is not required but strongly recommended as it is a pre-requisite for many upper-level major course requirements.
- 5 LMC courses cannot count in two thread areas at the same time. There is no double counting.