## **BACHELOR OF SCIENCE IN COMPUTER SCIENCE -THREAD: DEVICES & PEOPLE**

Wellness Requirement  APPH 1040 Scientific Foundations of Health 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  Mathematics and Quantitative Skills  MATH 1552 Integral Calculus  Political Science and U.S. History  HIST 2111 The United States to 1877 or HIST 2112 He United States since 1877 or HIST 2112 He United States since 1877 or INTA 120@merican Government in Comparative Perspective or POL 1101Government of the United States or PUBP 30@merican Constitutional Issues  Arts, Humanities, and Ethics Any HUM  Communicating in Writing  ENGL 1101 English Composition I  ENGL 1102 English Composition II  Technology, Mathematics, and Sciences  Lab Science 2  MATH 1551 Differential Calculus  MATH 1554 Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS 6  Field of Study  PHYS 2211 Principles of Physics I 2  CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming 1  CS 1332 Data Structures and Algorithms for Applications 1  CS 2050 Introduction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus 5  Major Requirements  CS 2340 Objects and Design 1	Credit Hours
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 Mathematics and Quantitative Skills MATH 1552 Integral Calculus Political Science and U.S. History HIST 2111 The United States to 1877 or HIST 2111 The United States since 1877 or HIST 2111 The United States since 1877 or INTA 120@merican Government in Comparative Perspective or POL 1101Government of the United States or PUBP 30@merican Constitutional Issues  Arts, Humanities, and Ethics Any HUM Communicating in Writing ENGL 1101 English Composition I Technology, Mathematics, and Sciences Lab Science 2 MATH 1551 Differential Calculus MATH 1551 Linear Algebra 5 or MATH 15Linear Algebra with Abstract Vector Spaces Social Sciences Any SS 6 Field of Study PHYS 2211 Principles of Physics I 2 CS 1100 Freshman Leap Seminar CS 1331 Introduction to Object Oriented Programming 1 CS 1332 Data Structures and Algorithms for Applications 1 CS 2050 Introduction to Discrete Mathematics for Computer Science 1 or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science MATH 2550 Introduction to Multivariable Calculus 5 Major Requirements	
or APPH 10 Flourishing: Strategies for Well-being and Resilience  Core IMPACTS  Institutional Priority  CS 1301 Introduction to Computing  Mathematics and Quantitative Skills  MATH 1552 Integral Calculus  Political Science and U.S. History  HIST 2111 The United States to 1877  or HIST 2111 The United States since 1877  or INTA 120@merican Government in Comparative Perspective or POL 1101Government of the United States or PUBP 30@merican Constitutional Issues  Arts, Humanities, and Ethics  Any HUM  Communicating in Writing  ENGL 1101 English Composition I  ENGL 1102 English Composition II  Technology, Mathematics, and Sciences  Lab Science   MATH 1551 Differential Calculus  MATH 1554 Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS  Field of Study  PHYS 2211 Principles of Physics I  CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming  CS 1332 Data Structures and Algorithms for Applications  Or CS 2050 Introduction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus  Major Requirements	2
Core IMPACTS  Institutional Priority  CS 1301 Introduction to Computing  Mathematics and Quantitative Skills  MATH 1552 Integral Calculus  Political Science and U.S. History  HIST 2111 The United States to 1877  or HIST 2111 The United States since 1877  or INTA 120@merican Government in Comparative Perspective or POL 1101Government of the United States or PUBP 3000merican Constitutional Issues  Arts, Humanities, and Ethics  Any HUM  Communicating in Writing  ENGL 1101 English Composition I  ENGL 1102 English Composition II  Technology, Mathematics, and Sciences  Lab Science   MATH 1551 Differential Calculus  MATH 1554 Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS   Field of Study  PHYS 2211 Principles of Physics I   CS 1331 Introduction to Object Oriented Programming  CS 1331 Introduction to Object Oriented Programming  CS 1332 Data Structures and Algorithms for Applications  1  CS 2050 Introduction to Discrete Mathematics for Computer Science   or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus   Major Requirements	
Institutional Priority  CS 1301 Introduction to Computing  Mathematics and Quantitative Skills  MATH 1552 Integral Calculus  Political Science and U.S. History  HIST 2111 The United States to 1877  or HIST 2112 The United States since 1877  or INTA 120@merican Government in Comparative Perspective or POL 1101Government of the United States or PUBP 30@merican Constitutional Issues  Arts, Humanities, and Ethics  Any HUM  Communicating in Writing  ENGL 1101 English Composition I  ENGL 1102 English Composition II  Technology, Mathematics, and Sciences  Lab Science   MATH 1551 Differential Calculus  MATH 1554 Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS   Field of Study  PHYS 2211 Principles of Physics I   CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming   CS 1332 Data Structures and Algorithms for Applications   CS 2050 Introduction to Discrete Mathematics for Computer Science   or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus   Major Requirements	
CS 1301 Introduction to Computing  Mathematics and Quantitative Skills  MATH 1552 Integral Calculus  Political Science and U.S. History  HIST 2111 The United States to 1877  or HIST 2112 The United States since 1877  or INTA 120@merican Government in Comparative Perspective or POL 1101Government of the United States or PUBP 30@merican Constitutional Issues  Arts, Humanities, and Ethics  Any HUM  Communicating in Writing  ENGL 1101 English Composition I  ENGL 1102 English Composition II  Technology, Mathematics, and Sciences  Lab Science   MATH 1551 Differential Calculus  MATH 1554 Linear Algebra  or MATH 15Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS   Field of Study  PHYS 2211 Principles of Physics I  CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming  CS 1332 Data Structures and Algorithms for Applications  Applications  1  CS 2050 Introduction to Discrete Mathematics for Computer Science  or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus   Major Requirements	
Mathematics and Quantitative Skills  MATH 1552 Integral Calculus  Political Science and U.S. History  HIST 2111 The United States to 1877 or HIST 2112 The United States since 1877 or INTA 120@merican Government in Comparative Perspective or POL 1101Government of the United States or PUBP 30@merican Constitutional Issues  Arts, Humanities, and Ethics  Any HUM  Communicating in Writing  ENGL 1101 English Composition I  ENGL 1102 English Composition II  Technology, Mathematics, and Sciences  Lab Science 2  MATH 1551 Differential Calculus  MATH 1554 Linear Algebra 5 or MATH 15Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS 6  Field of Study  PHYS 2211 Principles of Physics I 2  CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming 1  CS 1332 Data Structures and Algorithms for Applications 1  CS 2050 Introduction to Discrete Mathematics for Computer Science 1 or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus 5  Major Requirements	
MATH 1552 Integral Calculus  Political Science and U.S. History  HIST 2111 The United States to 1877  or HIST 2112 United States since 1877  or INTA 120@merican Government in Comparative Perspective or POL 1101Government of the United States or PUBP 30@merican Constitutional Issues  Arts, Humanities, and Ethics  Any HUM  Communicating in Writing  ENGL 1101 English Composition I  ENGL 1102 English Composition II  Technology, Mathematics, and Sciences  Lab Science 2  MATH 1551 Differential Calculus  MATH 1554 Linear Algebra 5  or MATH 1554 Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS 6  Field of Study  PHYS 2211 Principles of Physics I 2  CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming 1  CS 1332 Data Structures and Algorithms for Applications 1  CS 2050 Introduction to Discrete Mathematics for Computer Science 1  or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus 5  Major Requirements	3
Political Science and U.S. History  HIST 2111 The United States to 1877 or HIST 2111 The United States since 1877 or INTA 120 American Government in Comparative Perspective or POL 1101 Government of the United States or PUBP 30 American Constitutional Issues  Arts, Humanities, and Ethics Any HUM  Communicating in Writing  ENGL 1101 English Composition I  ENGL 1102 English Composition II  Technology, Mathematics, and Sciences  Lab Science   MATH 1551 Differential Calculus  MATH 1554 Linear Algebra borner or MATH 15Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS   Field of Study  PHYS 2211 Principles of Physics I   CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming 1  CS 1332 Data Structures and Algorithms for Applications 1  CS 2050 Introduction to Discrete Mathematics for Computer Science 1  or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus 5  Major Requirements	
HIST 2111 The United States to 1877 or HIST 2111 The United States since 1877 or INTA 120 American Government in Comparative Perspective or POL 1101 Government of the United States or PUBP 30 American Constitutional Issues  Arts, Humanities, and Ethics Any HUM  Communicating in Writing  ENGL 1101 English Composition I  ENGL 1102 English Composition II  Technology, Mathematics, and Sciences  Lab Science 2  MATH 1551 Differential Calculus  MATH 1554 Linear Algebra 5 or MATH 15Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS 6  Field of Study  PHYS 2211 Principles of Physics I 2  CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming 1  CS 1332 Data Structures and Algorithms for Applications 1  CS 2050 Introduction to Discrete Mathematics for Computer Science 1  or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus 5  Major Requirements	4
or HIST 2117he United States since 1877 or INTA 1200 merican Government in Comparative Perspective or POL 1101Government of the United States or PUBP 3000 merican Constitutional Issues  Arts, Humanities, and Ethics  Any HUM  Communicating in Writing  ENGL 1101 English Composition I  ENGL 1102 English Composition II  Technology, Mathematics, and Sciences  Lab Science 2  MATH 1551 Differential Calculus  MATH 1554 Linear Algebra 5 or MATH 15Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS 6  Field of Study  PHYS 2211 Principles of Physics I 2  CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming 1  CS 1332 Data Structures and Algorithms for Applications 1  CS 2050 Introduction to Discrete Mathematics for Computer Science 1  or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus 5  Major Requirements	
or INTA 120@merican Government in Comparative Perspective or POL 1101Government of the United States or PUBP 300@merican Constitutional Issues  Arts, Humanities, and Ethics  Any HUM  Communicating in Writing  ENGL 1101 English Composition I  ENGL 1102 English Composition II  Technology, Mathematics, and Sciences  Lab Science 2  MATH 1551 Differential Calculus  MATH 1554 Linear Algebra 5  or MATH 15Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS 6  Field of Study  PHYS 2211 Principles of Physics I 2  CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming 1  CS 1332 Data Structures and Algorithms for Applications 1  CS 2050 Introduction to Discrete Mathematics for Computer Science 1  or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus 5  Major Requirements	3
or POL 1101Government of the United States or PUBP 3000merican Constitutional Issues  Arts, Humanities, and Ethics  Any HUM  Communicating in Writing  ENGL 1101 English Composition I  ENGL 1102 English Composition II  Technology, Mathematics, and Sciences  Lab Science 2  MATH 1551 Differential Calculus  MATH 1554 Linear Algebra 5 or MATH 15Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS 6  Field of Study  PHYS 2211 Principles of Physics I 2  CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming 1  CS 1332 Data Structures and Algorithms for Applications 1  CS 2050 Introduction to Discrete Mathematics for Computer Science 1  or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus 5  Major Requirements	
or PUBP 3000merican Constitutional Issues  Arts, Humanities, and Ethics  Any HUM  Communicating in Writing  ENGL 1101 English Composition II  ENGL 1102 English Composition II  Technology, Mathematics, and Sciences  Lab Science 2  MATH 1551 Differential Calculus  MATH 1554 Linear Algebra 5  or MATH 15Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS 6  Field of Study  PHYS 2211 Principles of Physics I 2  CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming 1  CS 1332 Data Structures and Algorithms for Applications 1  CS 2050 Introduction to Discrete Mathematics for Computer Science 1  or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus 5  Major Requirements	
Arts, Humanities, and Ethics  Any HUM  Communicating in Writing  ENGL 1101 English Composition II  ENGL 1102 English Composition II  Technology, Mathematics, and Sciences  Lab Science  MATH 1551 Differential Calculus  MATH 1554 Linear Algebra 5  or MATH 15Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS 6  Field of Study  PHYS 2211 Principles of Physics I 2  CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming 1  CS 1332 Data Structures and Algorithms for Applications 1  CS 2050 Introduction to Discrete Mathematics for Computer Science 1  or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus 5  Major Requirements	
Any HUM  Communicating in Writing  ENGL 1101 English Composition I  ENGL 1102 English Composition II  Technology, Mathematics, and Sciences  Lab Science 2  MATH 1551 Differential Calculus  MATH 1554 Linear Algebra 5  or MATH 15Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS 6  Field of Study  PHYS 2211 Principles of Physics I 2  CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming 1  CS 1332 Data Structures and Algorithms for Applications 1  CS 2050 Introduction to Discrete Mathematics for Computer Science 1  or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus 5  Major Requirements	
Any HUM  Communicating in Writing  ENGL 1101 English Composition I  ENGL 1102 English Composition II  Technology, Mathematics, and Sciences  Lab Science 2  MATH 1551 Differential Calculus  MATH 1554 Linear Algebra 5  or MATH 15Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS 6  Field of Study  PHYS 2211 Principles of Physics I 2  CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming 1  CS 1332 Data Structures and Algorithms for Applications 1  CS 2050 Introduction to Discrete Mathematics for Computer Science 1  or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus 5  Major Requirements	
Communicating in Writing  ENGL 1101 English Composition I  ENGL 1102 English Composition II  Technology, Mathematics, and Sciences  Lab Science 2  MATH 1551 Differential Calculus  MATH 1554 Linear Algebra 5  or MATH 15Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS 6  Field of Study  PHYS 2211 Principles of Physics I 2  CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming 1  CS 1332 Data Structures and Algorithms for Applications 1  CS 2050 Introduction to Discrete Mathematics for Computer Science 1  or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus 5  Major Requirements	6
ENGL 1101 English Composition I ENGL 1102 English Composition II  Technology, Mathematics, and Sciences  Lab Science 2  MATH 1551 Differential Calculus  MATH 1554 Linear Algebra 5   or MATH 15Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS 6  Field of Study  PHYS 2211 Principles of Physics I 2  CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming 1  CS 1332 Data Structures and Algorithms for Applications 1  CS 2050 Introduction to Discrete Mathematics for Computer Science 1   or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus 5  Major Requirements	
ENGL 1102 English Composition II  Technology, Mathematics, and Sciences  Lab Science 2  MATH 1551 Differential Calculus  MATH 1554 Linear Algebra 5   or MATH 15Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS 6  Field of Study  PHYS 2211 Principles of Physics I 2  CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming 1  CS 1332 Data Structures and Algorithms for Applications 1  CS 2050 Introduction to Discrete Mathematics for Computer Science 1  or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus 5  Major Requirements	3
Technology, Mathematics, and Sciences  Lab Science 2  MATH 1551 Differential Calculus  MATH 1554 Linear Algebra 5   or MATH 15Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS 6  Field of Study  PHYS 2211 Principles of Physics I 2  CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming 1  CS 1332 Data Structures and Algorithms for Applications 1  CS 2050 Introduction to Discrete Mathematics for Computer Science 1  or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus 5  Major Requirements	3
Lab Science 2  MATH 1551 Differential Calculus  MATH 1554 Linear Algebra 5 or MATH 15Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS 6  Field of Study  PHYS 2211 Principles of Physics I 2  CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming 1  CS 1332 Data Structures and Algorithms for Applications 1  CS 2050 Introduction to Discrete Mathematics for Computer Science 1  or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus 5  Major Requirements	3
MATH 1551 Differential Calculus  MATH 1554 Linear Algebra <sup>5</sup> or MATH 15Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS <sup>6</sup> Field of Study  PHYS 2211 Principles of Physics I <sup>2</sup> CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming <sup>1</sup> CS 1332 Data Structures and Algorithms for Applications <sup>1</sup> CS 2050 Introduction to Discrete Mathematics for Computer Science <sup>1</sup> or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus <sup>5</sup> Major Requirements	8
or MATH 1554 Linear Algebra <sup>5</sup> or MATH 15Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS <sup>6</sup> Field of Study  PHYS 2211 Principles of Physics I <sup>2</sup> CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming <sup>1</sup> CS 1332 Data Structures and Algorithms for Applications <sup>1</sup> CS 2050 Introduction to Discrete Mathematics for Computer Science <sup>1</sup> or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus <sup>5</sup> Major Requirements	2
or MATH 15Linear Algebra with Abstract Vector Spaces  Social Sciences  Any SS <sup>6</sup> Field of Study  PHYS 2211 Principles of Physics I <sup>2</sup> CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming <sup>1</sup> CS 1332 Data Structures and Algorithms for Applications <sup>1</sup> CS 2050 Introduction to Discrete Mathematics for Computer Science <sup>1</sup> or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus <sup>5</sup> Major Requirements	4
Social Sciences  Any SS <sup>6</sup> Field of Study  PHYS 2211 Principles of Physics I <sup>2</sup> CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming <sup>1</sup> CS 1332 Data Structures and Algorithms for Applications <sup>1</sup> CS 2050 Introduction to Discrete Mathematics for Computer Science <sup>1</sup> or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus <sup>5</sup> Major Requirements	4
Any SS <sup>6</sup> Field of Study  PHYS 2211 Principles of Physics I <sup>2</sup> CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming <sup>1</sup> CS 1332 Data Structures and Algorithms for Applications <sup>1</sup> CS 2050 Introduction to Discrete Mathematics for Computer Science <sup>1</sup> or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus <sup>5</sup> Major Requirements	
Field of Study  PHYS 2211 Principles of Physics I <sup>2</sup> CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming <sup>1</sup> CS 1332 Data Structures and Algorithms for Applications <sup>1</sup> CS 2050 Introduction to Discrete Mathematics for Computer Science <sup>1</sup> or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus <sup>5</sup> Major Requirements	0
PHYS 2211 Principles of Physics I <sup>2</sup> CS 1100 Freshman Leap Seminar CS 1331 Introduction to Object Oriented Programming <sup>1</sup> CS 1332 Data Structures and Algorithms for Applications <sup>1</sup> CS 2050 Introduction to Discrete Mathematics for Computer Science <sup>1</sup> or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science MATH 2550 Introduction to Multivariable Calculus <sup>5</sup> Major Requirements	9
CS 1100 Freshman Leap Seminar  CS 1331 Introduction to Object Oriented Programming <sup>1</sup> CS 1332 Data Structures and Algorithms for Applications <sup>1</sup> CS 2050 Introduction to Discrete Mathematics for Computer Science <sup>1</sup> or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science  MATH 2550 Introduction to Multivariable Calculus <sup>5</sup> Major Requirements	
CS 1331 Introduction to Object Oriented Programming <sup>1</sup> CS 1332 Data Structures and Algorithms for Applications <sup>1</sup> CS 2050 Introduction to Discrete Mathematics for Computer Science <sup>1</sup> or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science MATH 2550 Introduction to Multivariable Calculus <sup>5</sup> Major Requirements	4
CS 1332 Data Structures and Algorithms for Applications <sup>1</sup> CS 2050 Introduction to Discrete Mathematics for Computer Science <sup>1</sup> or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science MATH 2550 Introduction to Multivariable Calculus <sup>5</sup> Major Requirements	1
Applications <sup>1</sup> CS 2050 Introduction to Discrete Mathematics for Computer Science <sup>1</sup> or CS 2051 Honors - Induction to Discrete Mathematics for Computer Science MATH 2550 Introduction to Multivariable Calculus <sup>5</sup> Major Requirements	3
Computer Science <sup>1</sup> or CS 2051 Honors - Induction to Discrete Mathematics for Composition Science MATH 2550 Introduction to Multivariable Calculus <sup>5</sup> Major Requirements	3
Science  MATH 2550 Introduction to Multivariable Calculus <sup>5</sup> Major Requirements	3
Major Requirements	outer
Major Requirements	2
CS 2340 Objects and Design 1	
00 2040 Objects and Design	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		
	Options (Capstone)		
Junior Design		6	
Concentration	_		
CS 2110	Computer Organization and Programming <sup>1</sup>	4	
CS 2200	Computer Systems and Networks 1	4	
CS 3251	Computer Networking I	3	
ECE 2031	Digital Design Laboratory <sup>1</sup>	2	
PSYC 2012	Introduction to Research Methods 1	3	
	the following for Building Devices: 1	4	
CS 3651	Prototyping Intelligent Devices		
ECE 4180	Embedded Systems Design		
	the following for Devices in the Real World: 1,3	3	
CS 3630	Introduction to Perception and Robotics		
CS 4261	Mobile Applications and Services for Converged Networks		
CS 4605	Mobile and Ubiquitous Computing		
CS 4476	Introduction to Computer Vision		
	the following for Algorithm Fundamentals: 1	3	
CS 3240	Languages and Computation	J	
CS 3510	Design and Analysis of Algorithms		
CS 3511	Design and Analysis of Algorithms, Honors		
	the following for Social/Behavioral Science for	3	
Computing: 1	J.		
PSYC 2210	Social Psychology		
	Human Language Processing		
PSYC 3040	Sensation and Perception		
CS 3750	Human Computer Interface Design and Evaluation <sup>1</sup>	3	
or CS 3751	Introduction to User Interface Design		
Select two of 1,3	the following for Human-Centered Technology:	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 4605	Mobile and Ubiquitous Computing		
CS 4472	Design of Online Communities		
CS 4745	Information and Communication Technologies and Global Development		
Other Require	d Courses		
MATH 3012	Applied Combinatorics	3	
Select one of	the following:	3	
MATH 321	5Introduction to Probability and Statistics		
MATH 3670	Probability and Statistics with Applications		
CEE 3770	Statistics and Applications		
ISYE 3770	Statistics and Applications		
or ISYE 2Probability with Applications & ISYE 3(and 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.

- Minimum grade of C required.
- <sup>2</sup> Two of three labs MUST be a sequence.
- <sup>3</sup> If CS 4605 is successfully completed, both requirements are fulfilled, and three credits are added to Free Electives.
- 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.
- <sup>6</sup> PSYC 1101 is highly encouraged as this course serves as a pre-requisite to other required courses