Bachelor of Science in Computer Science Advanced Computing

Checklist

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Required Course	When Taken	Grade	Notes
Compute	er Science Core (3	3 Credit hours)	
CSIT 121 Computer Science I			
CSIT 221Computer Science II			
CSIT 324 Object Oriented Programming			
CSIT 231 Systems Programming			
CSIT 241Discrete Math for CS I / MATH 231 Linear			
Algebra,			
CSIT 311 Assembly Language/Computer Organization			
CSIT 321 Paradigms of Programming Languages			
CSIT 341 Data Structures			
CSIT 425 Software Engineering			
CSIT 431 Introduction to Operating Systems			
CSIT 455 Relational and Object Databases			
	umnuting Require	ments and Electiv	
MATH 122 University Calculus I		ments and Electiv	
MATH 122 University Calculus II			
CSIT 242 Discrete Math for Computer Science II			
CSIT 441 Analysis and Design of Algorithms			
CS Elective			
CS Elective (400 level)*			
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CSIT 307 Web Development with Ruby on Rails, CSIT 411 Programming for Embedded Microcontrollers, CSIT 413 Computer Architecture, CSIT 435 Data Communications and Networks, CSIT 456 Information and Decision Support Systems, CSIT 433 Compiler Construction, CSIT 443 Theory of Computation, CSIT 461 Introduction to AI and Knowledge Engineering, CSIT 462 Computer Graphics, CSIT 463 Introduction to Digital Image Processing and Computer Vision, CSIT 473 Data Warehousing and Mining, CSIT 475 Electronic Commerce. One course from the following list may be taken as an elective; CSIT 490 Seminar on Selected Topics, CSIT 496 Special Topics, CSIT 497 Thesis, CSIT 499 Semior Project, CSIT 300 Internship, CSIT 291 Special Topics, CSIT 390 Directed Study, CSIT 201 Computer and Ethics, CSIT 400 Directed Independent Study. Additional Requirements: Students must complete a minimum of 30 credit hours in Natural Sciences (BIOL, CHEM, GEO, PHYS) and Mathematics/Statistics (MATH/STAT). Of these, at least 3 credits must be in Mathematics/Statistics (in addition to CSIT 241, CSIT 242, MATH 122, and MATH 123) and must come from the following list, by advisement: * MATH 223 University Calculus III, MATH 231 Linear Algebra, MATH 325 Numerical Analysis, MATH 335 Number Theory, MATH 337 Combinatorics, MATH 341 Geometry, STAT 250 Statistics for Scientists, STAT 350 Probability and Statistics. At least 7 credits must be in Biology, Chemistry, Geosciences, or Physics, and at least one of these 7 credits must be a laboratory course. (The above requirements may also be used to fulfill general education requirements, or requirements for a minor or second major.)			
	onal Requirements to		ajor.)
MATH/STAT elective from the above list * (3 credits)		(co cicuito)	
BIOL.CHEM GEO OR PHYS (3 credits)			
BIOL, CHEM, GEO OR PHYS			
*Must be a lab course (4 credits)			
BIOL, CHEM, GEO, PHYS OR MATH/STAT COURSE			
BIOL, CHEM, GEO, PHYS OR MATH/STAT COURSE BIOL, CHEM, GEO, PHYS OR MATH/STAT COURSE			
BIOL, CHEM, GEO, PHYS OR MATH/STAT COURSE			
BIOL, CHEM, GEO, PHYS OR MATH/STAT COURSE			
BIOL, CHEM, GEO, PHYS OR MATH/STAT COURSE			
BIOL, CHEM, GEO, PHYS OR MATH/STAT COURSE			
Students must complete a minimum of 66 credits of non-			
the above checklist. Students must complete a minimum of 120 tot			FED IN FALL 2015 OR AFTER seeking an
undergraduate degree must complete 45 credit hours as the upper Students may double major in Computer Science and Computer to take at least 15 additional credit hours in the second major (crequirements in the first major). College Core Curriculum: MISSING:	Information Systems edit hours from cour	by completing all reses within the list of c	
Student:	Anticipated Date		
Advisor:	Of Completion:		Revised March 2021
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