



MODULAR DEGREE PLAN:

COMPUTING

Major (Computing) - BCMPH

NEW PLAN		
Computing - Major (Computing) - BCMPH		
COMP-M		
Code	Title	Units
<i>1. Core</i>		
A. Complete the following:		
CISC 102	Discrete Structures I	3.00
CISC 121	Introduction to Computing Science I	3.00
CISC 124	Introduction to Computing Science II	3.00
B. Complete 3.00 units from the following:		3.00
MATH 110	Linear Algebra	
MATH 112	Introduction to Linear Algebra	
C. Complete 3.00 units from the following:		3.00
CISC 171	Computational Probability and Statistics	
STAT 263	Introduction to Statistics	
STAT 268	Statistics and Probability I	
STAT_Options		
D. Complete the following:		
CISC 203	Discrete Structures II	3.00
CISC 204	Logic for Computing Science	3.00
CISC 221	Computer Architecture	3.00
CISC 223	Software Specifications	3.00
CISC 235	Data Structures	3.00
E. Complete 3.00 units from the following:		3.00
CISC 322	Software Architecture	
CISC 326	Game Architecture	
F. Complete the following:		
CISC 360	Programming Paradigms	3.00
CISC 365	Algorithms I	3.00
G. Complete the following:		
CISC 497	Social, Ethical, and Legal Issues in Computing	3.00
<i>2. Sub-Plans</i>		
A. Complete one of the following Sub-Plans:		18.00
i. Fundamental Computation (CSFU-O)		
ii. Artificial Intelligence (CSAI-O)		
iii. Security (CSEC-O)		
Total Units		60.00



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Sub-Plans		
i. Fundamental Computation (CSFU-O)		
Code	Title	Units
a. Complete the following:		
CISC 324	Operating Systems	3.00
b. Complete 3.00 units from the following:		3.00
CISC 422	Formal Methods in Software Engineering	
CISC 455	Evolutionary Optimization and Learning	
CISC 465	Semantics of Programming Languages	
c. Complete 3.00 units from the following:		3.00
CISC		
CISC_Subs		
SOFT at the 400-level or above		
d. Complete 6.00 units from the following:		6.00
CISC at the 300-level or above		
CISC_Subs at the 300-level or above		
SOFT at the 300-level or above		
e. Complete 3.00 units from the following:		3.00
CISC at the 200-level or above		
CISC_Subs at the 200-level or above		
SOFT at the 200-level or above		
ii. Artificial Intelligence (CSAI-O)		
Code	Title	Units
a. Complete the following:		
COGS 100	Introduction to Cognitive Science	3.00
CISC 271	Linear Methods for Artificial Intelligence	3.00
CISC 352	Artificial Intelligence	3.00
CISC 371	Numerical Optimization for Artificial Intelligence	3.00
b. Complete 6.00 units from the following course list:		6.00
CISC_Artificial_Intelligence		





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iii. Security (CSEC-O)		
Code	Title	Units
a. Complete the following:		
CISC 220	System-Level Programming	3.00
CISC 324	Operating Systems	3.00
CISC 327	Software Quality Assurance	3.00
CISC 335	Computer Networks	3.00
CISC 447	Introduction to Cybersecurity	3.00
b. Complete 3.00 units from the following:		3.00
CISC 448	Software Reliability and Security	
CISC 468	Cryptography	

New numbers of units required: 
Added in Modular Plan: 
Modified in Modular Plan: 