



## MODULAR DEGREE PLAN:

# COMPUTING

Major (Computing) - BCMPH

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



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Sub-Plans		
i. Fundamental Computation (CSFU-O)		
Code	Title	Units
<b>a. Complete the following:</b>		
CISC 324	Operating Systems	3.00
<b>b. Complete 3.00 units from the following:</b>		<b>3.00</b>
CISC 422	Formal Methods in Software Engineering	
CISC 455	Evolutionary Optimization and Learning	
CISC 465	Semantics of Programming Languages	
<b>c. Complete 3.00 units from the following:</b>		<b>3.00</b>
CISC		
CISC_Subs		
SOFT at the 400-level or above		
<b>d. Complete 6.00 units from the following:</b>		<b>6.00</b>
CISC at the 300-level or above		
CISC_Subs at the 300-level or above		
SOFT at the 300-level or above		
<b>e. Complete 3.00 units from the following:</b>		<b>3.00</b>
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
<b>a. Complete the following:</b>		
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>b. Complete 6.00 units from the following course list:</b>		<b>6.00</b>
CISC_Artificial_Intelligence		





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iii. Security (CSEC-O)		
Code	Title	Units
<b>a. Complete the following:</b>		
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>b. Complete 3.00 units from the following:</b>		<b>3.00</b>
CISC 448	Software Reliability and Security	
CISC 468	Cryptography	

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