



# B.A. in Computing and Informatics

## Major Requirements (42 sh)

### SUMMARY OF MAJOR REQUIREMENTS

- 21 sh of Foundational Courses
  - 9 sh of Upper-Level and Capstone Courses
  - 12 sh of Computing and Informatics Restricted Electives
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- 42 sh total

### FOUNDATIONAL COURSES

Course #	Course Name	Course Attributes / Notes	Sem/Yr	Grade	Credits
CS 00100	Computer Science Learning Community	Not required for transfer students			1
PHIL 09130, MATH 03160 or MATH 03150	Introduction to Symbolic Logic, Discrete Structures or Discrete Math				3
CS 01104, CS 04171 or CS 04110	Introduction to Scientific Programming, Creating Android Apps or Introduction to Programming Using Robots				3
CS 04103	Computer Science and Programming				4
CS 04210	Advanced Programming Workshop	prereq CS 04103 or CS 04113;			2
CS 04210	Advanced Programming Workshop	2 sections of course must be taken with different topics (e.g., Ruby, C#)			2
CS 04225	Principles of Data Structures	prereq CS04103			3
CS 01210	Intro to Computer Networks & Data Communication				3
<b>Subtotal: 21 sh</b>					

### UPPER-LEVEL AND CAPSTONE COURSES

Course #	Course Name	Course Attributes / Notes	Sem/Yr	Grade	Credits
MIS 02334 / CS 10334	Applied Database Technologies	prereq Junior standing			3
CS 10310	Introduction to Web Development	prereq (CS 04210 or CS 04114) & (MIS 02334 or CS 10334 or CS 04430) & (CS 04225 or CS 04222)			3
CS 10430	Computing & Informatics Capstone Experience	prereq CS 10310 and CMS 04205			3
<b>Subtotal: 9 sh</b>					

### COMPUTING AND INFORMATICS RESTRICTED ELECTIVES

Choose 12 credits from the courses below.

	Course #	Course Name	Course Attributes / Notes	Sem/Yr	Grade	Credits
<input type="radio"/>	BINF 07250	Intro to Bioinformatics	prereq CHEM 06101 & BIOL 01106 & CS 04103			3
<input type="radio"/>	CS 01205	Computer Laboratory Techniques	prereq CS 04113 or CS 04103			3
<input type="radio"/>	CS 01211	Principles of Information Security				3
<input type="radio"/>	CS 01295	Special Topics in Computer Science	multiple sections of this course with different topics can be taken.			3
<input type="radio"/>	CS 01395	Topics in Computer Science	prereq CS 04222 or CS 04225; multiple sections of course with different topics can be taken.			3
<input type="radio"/>	CS 04350	Blockchain Programming	prereq (CS 10250 or CS 07350) and (CS 01104 or CS 04113)			3
<input type="radio"/>	CS 10250	Cryptography and Blockchain Essentials				3
<input type="radio"/>	CS 10271	Introduction to Android Programming	prereq CS 04113 or CS 04171 or CS 04103 or CS 01104 or CS 01102			3
<input type="radio"/>	CS 04372	Advanced Android Programming	prereq CS 10271 or CS 04222 or CS 04225			3
<input type="radio"/>	CS 10275	Introduction to iOS Programming	prereq CS 04113 or CS 04171 or CS 04103 or CS 01104 or CS 01102			3
<input type="radio"/>	CS 04376	Advanced iOS Programming	prereq CS 10275			3
<input type="radio"/>	CS 04471	Topics in Mobile Programming				3
<input type="radio"/>	CS 07252	Foundations of Computer Forensics				3
<input type="radio"/>	CS 07370	Introduction to Information Visualization	prereq CS 04222 or CS 04225			3
<input type="radio"/>	CS 07430	Human Computer Interaction	prereq CS 04222 or CS 04225			3

