

# Computer and Information Sciences

## Curriculum in Information Technology

(2013)



### First Year

#### First Semester

Course Number	Course Title	Credits
CSCI-191	University Seminar I	1
ENGL-101	English Composition I	3
CSCI-110	Computational Thinking I	2
CSCI-120	Elements of Computer Programming I*	4
MTSC-251	Calculus I	4
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#### Second Semester

Course Number	Course Title	Credits
CSCI-192	University Seminar II	1
CSCI-111	Computational Thinking II	2
CSCI-121	Elements of Computer Programming II*	4
ENGL-102	English Composition II	3
MVSC-101	Lifetime Fitness & Wellness	2
AH	Arts and Humanities (M/AE)	3
		15

### Second Year

Course Number	Course Title	Credits
CSCI-210	Data Structures and Algorithms I*	4
INFO-220	System Administration I*	4
ENGR-210	Digital Logic Design	4
MTSC-213	Discrete Mathematics I	3
		15

Course Number	Course Title	Credits
CSCI-211	Data Structures and Algorithms II*	3
CSCI-230	Systems Architecture	3
INFO-230	Introduction to Web Development	3
INFO-240	Database Administration*	3
INFO-295	Mid-Program Project*	1
LIT	Literature (M/AE)	3
		16

### Third Year

Course Number	Course Title	Credits
CSCI-320	Operating Systems*	3
CSCI-340	Database Systems*	3
CSCI-370	Stochastic Computing	3
INFO-380	Human Computer Interaction*	3
PHYS-211	Fundamentals of Physics I	4
		16

Course Number	Course Title	Credits
CSCI-330	Computer Networking	3
CSCI-350	Data Analytics*	3
INFO-320	System Administration II*	3
INFO-340	Introduction to Information Security*	3
AE	Area Elective	3
		15

### Fourth Year

Course Number	Course Title	Credits
CSCI-480	Software Engineering Design*	3
INFO-420	Systems Integration*	3
ENGL-200	Speech	3
PSYC-201	Introduction to Psychology	3
AE	Area Elective	3
		15

Course Number	Course Title	Credits
INFO-495	IT Capstone Project**	3
GLOB-395	Global Societies	3
HIS	History (M/AE)	3
AH	Arts and Humanities (M/AE)	3
AE	Area Elective	3
		15

<b>Total Credit Hours</b>	<b>121</b>
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\*\* Senior capstone course.

\* Writing Intensive.

**NOTE:** All courses must be passed with a C or better in order to fulfill the requirement.

# Department of Computer and Information Sciences Information Technology and General Education Requirements (2013)

General Education - Core		
CSCI-191	University Seminar I	1
ENGL-101	English Composition I	3
CSCI-192	University Seminar II	1
ENGL-102	English Composition II	3
GLOB-395	Global Societies	3
ENGL-200	Speech	3
MVSC-101	Lifetime Fitness & Wellness	2
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General Education - Breadth		
HIS	History (HM/HAE)	3 ●
LIT	Literature (LM/LAE)	3 ●
SS	Social Sciences	3 ●
AH	Arts and Humanities (M/AE)	6 ●
MTH	Mathematics	4 ●
CAP	Capstone Experience	3 ●
NSC	Natural Science with Lab	4 ●
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Computing - Foundations		
CSCI-101	Computational Thinking I	2
CSCI-102	Computational Thinking II	2
CSCI-120	Elements of Computer Programming I	4
CSCI-121	Elements of Computer Programming II	4
CSCI-210	Data Structures and Algorithms I	4
CSCI-211	Data Structures and Algorithms II	3
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Computing - Core		
CSCI-230	System Architecture	3
CSCI-320	Operating Systems	3
CSCI-330	Computer Networking	3
CSCI-340	Database Systems	3
CSCI-350	Data Analytics	3
CSCI-370	Stochastic Computing	3
CSCI-480	Software Engineering	3
INFO-340	Introduction to Information Security	3
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Computing - Cognate		
MTSC-213	Discrete Math I	3
ENGR-210	Digital Logic Design	4
MTSC-251	Calculus I	
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IT - Specific		
INFO-220	System Administration I	4
INFO-230	Introduction to Web Development	3
INFO-240	Database Administration	3
INFO-295	Mid-Program Project	1
INFO-320	System Administration II	3
INFO-380	Human Computer Interaction	3
INFO-420	Systems Integration	3
INFO-495	IT Capstone Project	
AE	Area Elective	3
AE	Area Elective	3
AE	Area Elective	3
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History (choose one)		
HM	<u>History / Multicultural</u>	
	HIST-101	World History to 16th Century
	HIST-102	World History from 16th Century
	HIST-205	Themes in World History
HAE	<u>History / African-American Experience</u>	
	HIST-203	African American History to 1865
	HIST-204	African American History from 1865

Literature (choose one)		
LM	<u>Literature / Multicultural</u>	
	ENGL-201	World Literature I
	ENGL-202	World Literature II
LAE	<u>Literature / African-American Experience</u>	
	ENGL-205	African-American Literature I
	ENGL-206	African-American Literature II

Social Sciences (choose one)		
	PSYC-201	Introduction to Psychology

Arts and Humanities (choose two)		
AH	<u>Arts and Humanities</u>	
	ART-101	Introduction to Art
	ART-103	Introduction to Drawing
	ART-104	Two Dimensional Design
	ART-204	Drawing & Painting (Non-majors)
	ART-205	Intermediate Drawing
	ART-206	Three-Dimensional Design
	ART-304	Introduction to Painting
	ART-315	Modern Art
	ART-316	African-American Art History
	ART-317	Art History I
	ENGL-113	Introduction to Theatre
AH/M	<u>Arts and Humanities / Multicultural</u>	
	PHIL-XXX	All Philosophy Courses without prerequisites
	XX-XXX	All World Languages
AH/AE	<u>Arts and Humanities / African-American Experience</u>	
	MUSC-100	African-American Music
	MUSC-101	Introduction to Music

Mathematics (choose one)		
	MTSC-251	Calculus I

Natural Sciences with Lab (choose one)		
	PHYS-211	Fundamentals of Physics

Capstone Experience		
	INFO-495	IT Capstone Project

Area: Security		
INFO-440	Information Systems Security	
CSCI-440	Computer and Network Security	
AE	Course from another IT/CS Area	

Area: Web and Mobile Development		
INFO-330	Data-Driven Web Applications	
INFO-331	Technologies for Developing Web Systems	
INFO-335	Mobile Computing	

<b>Total</b>		<b>121</b>
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## General Education Breadth Paths

Student must complete  
of these paths

