Computer and Information Sciences

Curriculum in Computer Science (2013)



First Year

First Semester

Course Number	Course Title	Credits
CSCI-191	University Seminar I	1
CSCI-110	Computational Thinking I	2
CSCI-120	Elements of Computer Programming I*	4
ENGL-101	English Composition I	3
MTSC-251	Calculus I	4
		14

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
MTSC-252	Calculus II	4
		16

Second Year

Course Number	Course Title	Credits
CSCI-210	Data Structures and Algorithms I*	4
ENGR-210	Digital Logic Design	4
HIS	History (M/AE)	3
LIT	Literature (M/AE)	3
MTSC-213	Discrete Mathematics I	3
		17

Course Number	Course Title	Credits
CSCI-211	Data Structures and Algorithms II*	3
CSCI-230	Systems Architecture	3
CSCI-280	Discrete Structures	3
CSCI-295	Mid-Program Project*	1
PSYC-201	Introduction to Psychology	3
		13

Third Year

Course Number	Course Title	Credits
CSCI-320	Operating Systems*	3
CSCI-340	Database Systems*	3
CSCI-370	Stochastic Computing	3
PHYS-211	Fundametals of Physics I	4
MTSC-313	Linear Algebra	3
		16

Course Number	Course Title	Credits
CSCI-330	Computer Networking	3
CSCI-350	Data Analytics*	3
CSCI-380	Principles of Programming Languages	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
CSCI-485	Analysis of Algorithms	3
AE	Area Elective	3
ENGL-200	Speech	3
AH	Arts and Humanities (M/AE)	3
		15

Course Number	Course Title	Credits
CSCI-486	Theory of Computing	3
CSCI-495	CS Capstone Project**	3
AE	Area Elective	3
GLOB-395	Global Societies	3
AH	Arts and Humanities (M/AE)	3
		15

Total Cledit Hours 121	Total Credit Hours	121
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NOTE: All courses must be passed with a C or better in order to fulfill the requirement.

^{**} Senior capstone course.

^{*} Writing Intensive.

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

