

Four-Year Plan of Study - Fall 2019/Spring 2020

Computer Science Major

Updated April 2020

First Year

Semester 1				Crs.	Semester 2				Crs.
CSCE	106/1001	Fundamentals of Computing I		3	CSCE	110/1101	Fundamentals of Computing II		3
PHYS	111/1011	Classical Mechanics, Sound and Heat		3	CSCE	000/1102	Fundamentals of Computing II Lab (1 cr.)		1
PHYS	123L/1012	General Physics Laboratory I		1	PHYS	112/1021	Electricity and Magnetism		3
MACT	132/1122	Calculus II		3	PHYS	124L/1022	General Physics Laboratory II		1
RHET	110/1010	Freshman Writing		3	MACT	231/2123	Calculus III		3
CORE	110/1010	Freshman Seminar		3	RHET	120/1020	Research Writing		3
					SCI	120/1020	Scientific Thinking		3
					LALT	101/1020	Libraries & Learning Technologies		0
Total Credit Hours				16	Total Credit Hours				17

Second Year

Semester 3				Crs.	Semester 4				Crs.
CSCE	230/2301	Digital Design I		3	CSCE	321/2202	Analysis & Design of Algorithms		3
CSCE	239L/2302	Digital Design I Lab		1	CSCE	000/2203	Analysis & Design of Algorithms Lab		1
PHYS	215/2211	Introduction to Electronics		3	CSCE	231/2303	Computer Organization & Assembly Language Programming		3
PHYS	222L/2213	Electronics Lab for Computer Scientists & Computer Engineers		1	MACT	240/2132	Linear Algebra		3
MACT	200/2131	Discrete Mathematics		3	MACT	306/3211	Applied Probability		3
XXXX	XXXX	Pathways 2: Cultural Explorations		3	XXXX	XXXX	Global Studies		3
PHIL	220/2100	Philosophical Thinking		3					
Total Credit Hours				17	Total Credit Hours				16

Third Year

Semester 5				Crs.	Semester 6				Crs.
CSCE	325/3104	Concepts of Programming Languages		3	CSCE	341/3701	Software Engineering		3
CSCE	330/3301	Computer Architecture		3	CSCE	345/3401	Operating Systems		3
CSCE	339L/3302	Computer Architecture Lab		1	CSCE	000/3402	Operating Systems Lab		1
CSCE	XXXX	Computer Science Elective		3	CSCE	XXXX	Computer Science Elective		3
MACT	307/3223	Statistical Inference		3	CSCE	XXXX	Computer Science Elective		3
XXXX	XXXX	Arab World Studies 1		3	XXXX	XXXX	Arab World Studies 2		3
					XXXX	XXXX	Humanities/Social Sciences (Secondary Level)		3
Total Credit Hours				16	Total Credit Hours				19

Fourth Year

Semester 7				Crs.	Semester 8				Crs.
CSCE	422/4201	Theory of Computing		3	CSCE	447/4101	Compiler Design		3
CSCE	490/4950	Industrial Training		1	CSCE	492/4981	Senior Project II (Core Capstone I)		2
CSCE	491/4980	Senior Project I (Core Capstone I)		1	CSCE	XXXX	Computer Science Electives		3
CSCE	XXXX	Computer Science Elective		3	XXXX	XXXX	Core Capstone II		3
CSCE	XXXX	Computer Science Elective		3	XXXX	XXXX	General Elective		3
XXXX	XXXX	General Elective		3					
XXXX	XXXX	General Elective		3					
Total Credit Hours				17	Total Credit Hours				14

- 1) Major Requirements are according to Fall 2019/Spring 2020 Catalog Admission &/or Declaration.
- 2) Core Curriculum Requirements are according to Fall 2013 Admission.