The American University in Cairo
Department of Computer Science & Engineering

Four-Year Plan of Study - Fall 2018/Spring 2019
Computer Science Major

Updated September

First Year

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

Second Year

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

Third Year

Semester 5			Crs.	Semester 6			
CSCE	325/3104	Concepts of Programming Languages	3	CSCE	341/3701	Software Engineering	
CSCE	330/3301	Computer Architecture	3	CSCE	345/3401	Operating Systems	
CSCE	339L/3302	Computer Architecture Lab	1	CSCE	000/3402	Operating Systems Lab	
MACT	317/3224	Probability & Statistics	3	CSCE	XXXX	Computer Science Elective	
CSCE	XXXX	Computer Science Elective	3	MACT	XXXX	Math Elective*	
XXXX	XXXX	Arab World Studies 1	3	XXXX	XXXX	Arab World Studies 2	
				XXXX	XXXX	Humanities/Social Sciences (Secondary Level)	
Total Credit Hours			**16**	**Total Credit Hours**			

Fourth Year

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

1) Major Requirements are according to Fall 2018/Spring 2019 Catalog Admission &/or Declaration.
2) Core Curriculum Requirements are according to Fall 2013 Admission.
* Students select one of the following: MACT 233/2141, 304/3143, 310/3145, 406/4212 & 440/4135.

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Crs.
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3
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17

Crs.
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16

Crs.
3
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1
3
3
3
3
19

Crs.
3
2
3
3
3
14