

COMPUTER SCIENCE CORE REQUIREMENTS (39 credits)					
COURSE NO	UCM COURSE TITLE	MCC Equivalent	CR	SEM	CSC
CS 1100	Computer Programming I	CSIS 123 Programming Fundamentals	3	*	
CS 1110	Computer Programming II	CSIS 222 Object Oriented Programming with Java	3	*	
CS 2200	Intro. to Computer Organization	CSIS 250 Assembler Programming	3	S	yes
CS 2300	Data Structures	CSIS 271 Data Structures and Alg. Analysis	3	F	yes
CS 2400	Discrete Structures	CSIS 141 Discrete Structures for CS or MATH 141 Discrete Structures for Science	3	F	yes
CS 3100	Programming Languages	N/A	3	S	yes
CS 3200	Computer Architecture	N/A	3	F	yes
CS 3500	C & UNIX Environment	CSIS 152 Linux Operating Systems and CSIS 223 Object-Oriented Programming	3	F	yes
CS 4300	Algorithm Design & Analysis	N/A	3	S	yes
CS 4500	Operating Systems	N/A	3	S	yes
CS 4600	Database Theory & Applications	CSIS 143 Database Design & Mgt	3	S	yes
CS 4910	Software Engineering	N/A	3	F	yes
CS 4920	Senior Project	N/A	3	S	yes

		N/A	3	*	
CS 4110	Mobile App. Prog. with Android	N/A	3	S	yes
CS 4120	Adv. Applications Prog. in Java	N/A	3	F	yes
CS 4930	Software Testing	N/A	3	S	yes
Electives from the following 9 -18 credits					
CS 3120	Client Side Web Programming	CSIS 228 Advanced Web Development	3	*	
CS 3300	Introduction to Cryptography	N/A	3	S	yes
CS 3810	Introduction to Game Design	N/A	3	*	
CS 4000	Special Problems CS	N/A	3	*	
CS 4020	Internship in CS	N/A	3	SU	yes
CS 4130	Server Side Web Programming	N/A	3	F	yes
CS 4140	Web Applications Security	N/A	3	S	yes
CS 4510	Intro. to Distributed Systems	N/A	3	*	
CS 4610	Intro. to Cloud Computing	N/A	3	*	
CS 4620	Big Data Systems	N/A	3	*	
CS 4630	Data Mining	N/A	3	*	
CS 4700	Artificial Intelligence	N/A	3	*	
CS 4800	Computer Networking	N/A			

CS 4820	Intro. to Information Assurance	N/A	3	F	yes
CS 4830	Game Development	N/A	3	*	
CS 4840	Ethical Hacking	N/A	3	F	yes

COMPUTER SCIENCE OPTION 1 GENERAL EDUCATION REQUIREMENTS (42 credits)

COURSE NO	UCM COURSE TITLE	MCC Equivalent	CR	SEM	CSC
COMM 1000	Public Speaking	COMM 100 Fundamentals of Speech	3	*	
CS 1000	Computers and Modern Society	N/A	3	SU	yes
ACST 1300	Basic Statistics	MATH 115 Statistics	3	*	
CS 1030 or MATH 1131 or MATH 1151	Intro. to Computer Programming or Applied Calculus or Calculus I	N/A or MATH 175 Calculus for Business and Social Sciences or MATH 180 Analytic Geometry and Calculus I	3 3 5	F	yes

NOTE: for the remaining 30 CR 8 613CID17.