

Le Moyne College										
Computer Science Major, typical program for B.S. With Concentration in Pre-Engineering: Computer Science										
(as of 2014-15 Academic Year)										
Revised 01-02-2016										
		CREDIT	FIRST-YEAR		SOPHOMORE		JUNIOR		SENIOR	
			F	S	F	S	F	S	F	S
MAJOR REQUIREMENTS										
COMPUTER SCIENCE										
CSC 175*	Introduction to Algorithms and Program Development	4	4							
CSC 176*	Object-oriented Programming	3		3						
CSC 181*	Bits, Nibbles and Bytes	3		3						
CSC 275*	Data Structures & Algorithms	3			3					
CSC 281*	Discrete Mathematics	3			3					
CSC 346*	Software Operating Environments	3				3				
CSC 375*	Design and Analysis of Algorithms	3					3			
CSC 355* or CIS 352**	Programming Languages & Paradigms Pr0gramming Languages: Theory & Practice	3					3			
CSC 471* or CIS 473**	Models of Computation Automata and Computability	3						3		
CSC xxx	2 CSC programming-intensive upper-level electives	6						3	3	
CSC yyy	1 additional CSC elective	3								3
CSC 495/6	Senior Research/Capstone Project	3								3
MAJOR SUPPORT										
MATHEMATICS										
MTH 145*	Calculus I	4	4							
OTHER										
Foreign Language		6	3	3						
CORE REQUIREMENTS										
ENGLISH/SOC SCI/HIST/RELIG/PHILOS										
COR 100	First Year Seminar	3	3							
WRT 101	Critical Writing	3	3							
HST 110	History 1	3			3					
HST 111	History 2	3		3						
PHL 110	Philosophy 1	3				3				
PHL 210	Philosophy 2	3					3			
ENG 210	English 1	3				3				
ENG 310	English 2	3						3		
REL	Religion 1	3								3
THE	Theology 1	3						3		
Core IDS	Core Interdisciplinary	3						3		
COR 400	Interdisciplinary Senior Capstone	3								3
Social Sci	Social Science	3				3				
VPA	Visual and Performing Arts	1								1
ADDITIONAL MASTERS PREREQUISITES*										
SCIENCE/MATHEMATICS/ENGINEERING										
MTH 146*	Calculus II	4		4						
MTH 245*	Calculus III	4			4					
MTH 261***	Linear Algebra	3					3			
MTH 311*	Introduction to Probability Theory	3								3
(NS)*	Natural Science	8			4	4				
PHY 103*	General Physics Lab I	1					1			
PHY 105*	General Physics I	3					3			
Electives	Electives	6								6
TOTAL CREDITS		122	17	16	17	16	16	15	13	12

* Satisfies pre-requisites for admission to masters program. 3.0 GPA in math/science/engineering and overall also required.

** Taken at Syracuse University

*** To earn a minor in Mathematics (CSC program requires student to earn a minor)