Le Moyne College										
Physics Major, typical program for B.S. with Concentration in Pre-Engineering (Environmental)***										
(as of 2016-17 Academic Year)				-YEAR SOPHOMORE			JUNIOR		SENIOR	
Revised 10-24-13		CREDIT	F	S	F	S	F	S	F	S
MAJOR REQ	UIREMENTS									
PHYSICS	0 18 1 1 1									
PHY 105* PHY 103*	General Physics I (calc.)	3 1	<u>3</u>							
PHY 103 PHY 106*	General Physics Lab I General Physics II (calc.)	3	- '	3	.					
PHY 104*	General Physics Lab II	1		1						
PHY 201	Fields and Waves	3		-	3					
PHY 203	Foundations of Modern Physics	3			Ť	3				
PHY 231	Foundations Lab	1				1				
PHY 303	Classical Electr/magn Theory I	3							3	
PHY 321	Analytical Mechanics I	3				3				
PHY 331	Atomic & Nuclear Physics Lab	1					1			
PHY 311	Electronics I	4			4					
PHY 333	Computational Physics	3	ļ		ļ		_	3		
PHY 307	Quantum Mechanics I	3 3 3					3	2		
	Quantum Mechanics II or 3XX/4XX	ა ი						3		2
PHY 401* PHY 405*	Mathematical Physics Statistical Physics	3								3
PHY 431	Advanced Physics Lab	1	ŀ		ł			1		5
PHY 476	Physics Capstone	3							3	
MAJOR SUPPORT		Ť							Ť	
MATHEMATICS					1					
MTH 145*	Calculus I	4	4							
MTH 146*	Calculus II	4		4						
MTH 245*	Calculus III	4			4					
MTH 304*	Differential Equations Sci-Eng	4				4				
OTHER SCI	ENCES									
CHM 151*	Chemical Principles I	4			4					
CHM 152*	Chemical Principles II	4				4				
CORE REQUIREMENTS										
	OC SCI/HIST/RELIG/PHILOS	_								
COR 100	First Year Seminar	3	3							
WRT 101	Critical Writing	3	3							
HST 110	World Civilization I	3	3	2						
HST 111 PHL 110	World Civilization II Introduction to Philosophy	3		3						
PHL 110 PHL 210	Moral Philosophy	3		٦	3					
EAC 1	Encountering Another Culture/	3					3			
EAC 2	Foreign Language	3						3		
ENG 210	Major Authors							3		
ENG 310	Literature & Culture	3 3 3 3 3					3			
IDS	Interdiscip. NatSci/SocSci/Math	3							3	
THE	Theology	3		3						
REL	Religious Studies	3							3	
(SOC)	Social Science									3
COR 400	Senior Seminar: Transformations	3	ļ		ļ					3
VPA	Visual & Performing Arts	1 0								1
DIV	Diversity MASTERS PREPERIORS MASTERS PREPERI	U								
ADDITIONAL MASTERS PREREQUISITES* ENGINEERING										
CIE 274**		2	<u> </u>		<u> </u>	2				
CIE 274** CIE 341**	Sustainability Environmental Engineering I	3 3	-		 	3	3			
CIE 341***	Water Resources Engineering	3 4	1		1		J	4		
		4	-		1		4			
MAE 341/CIE 327** Fluid Mechanics ELECTIVES										
Elective		3							3	
	Major Elective	3								3
TOTAL CRED		135	17	17	18	18	17	17	15	16
		.00							. 5	

^{*} Satisfies pre-requisites for admission to masters program. 3.0 GPA in math/science/eng & overall also rq'd 0

** Taken at Syracuse University

*** So long as pre-reqs (*-ed courses) are satisfied, students with B.A. degrees may also enter the M.S. program