Le Moyne College <b>Physics Major</b> , <i>typical</i> program for <b>B.S.</b> with Concentration in Pre-Engineering (Environmental)***										
		n Conce	FIRST-YEAR SOPHOMORE							
(as of 2016-17 Academic Year)		CREDIT			SOPHOMORE F S		JUNIOR F S		SENIOR F S	
Revised 4-20-17 MAJOR REQU	LIDEMENTS	CKEDII	F	S	Г	5	F	S	Г	_ 5
PHYSICS	DIREMENTS									
PHY 105*	General Physics I (calc.)	3	3							
PHY 103*	General Physics Lab I	1	1							
PHY 106*	General Physics II (calc.)	3	- '	3						
PHY 104*	General Physics II (calc.)	1		1						
PHY 201	Fields and Waves	3		'	3					
PHY 203	Foundations of Modern Physics	3				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						3		
PHY 307	Quantum Mechanics I	3					3			
	Quantum Mechanics II or 3xx/4xx	3						3		
PHY 401*	Mathematical Physics	3								3
PHY 405*	Statistical Physics	3								3
PHY 431	Advanced Physics Lab	1						1		
PHY 476	Physics Capstone	3							3	
MAJOR SUPPORT										
MATHEMAT										
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 SCIE										
CHM 151*	Chemical Principles I	4			4					
CHM 152*	Chemical Principles II	4				4				
CORE REQU										
	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							
HST 111	World Civilization II	3	١	3						
PHL 110	Introduction to Philosophy			3						
PHL 210	Moral Philosophy	3 3			3					
EAC 1	Encountering Another Culture/	3					3			
EAC 2	Foreign Language	3						3		
ENG 210	Major Authors	3						3		
ENG 310	Literature & Culture	3					3			
IDS	Interdiscip. NatSci/SocSci/Math	3							3	
THE	Theology	3		3						
REL	Religious Studies	3							3	
(SOC)	Social Science	3								3
COR 400	Senior Seminar:Transformations	3								3
VPA	Visual & Performing Arts	1								1
DIV	Diversity	0								
ADDITIONAL MASTERS PREREQUISITES*										
<b>ENGINEERII</b>	NG									
CIE 274**	Sustainability	3				3				
CIE 341**	Environmental Engineering I	3					3			
CIE 352**	Water Resources Engineering	4						4		
CIE 442**	Treatment Processes	4							4	
	Fluid Mechanics	4					4			
ELECTIVES										
	Major Elective	3								3
TOTAL CRED		136	17	17	18	18	17	17	16	16
	requisites for admission to most		•			ionoolo		•		

<sup>\*</sup> Satisfies pre-requisites for admission to masters program. 3.0 GPA in math/science/eng & overall also rq'd

\*\* 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

PHY 3XX/4XX courses, except PHY 311, 331, 431, & 476, are offered in alternate years, so students graduating in odd-numbered years follow a program with the 3rd and 4th years of PHY courses interchanged.