Le Moyne <b>Physics M</b>	College lajor, <i>typical</i> program for <b>B.S.</b> with Concent	tration in	Pre-En	gineeri	ng (Civ	il with G	eotech	inical fo	cus)***	
(as of 2016-17 Academic Year)			_				JUNIOR		SENIOR	
Revised October 2022		CREDIT	F	S	F	S	F	S	F	S
	QUIREMENTS	OREDIT		0	'	Ŭ		0		0
PHYSICS										
PHY 105*	General Physics I (calc.)	3	3							
PHY 103*	General Physics Lab I	1	1							
PHY 105	General Physics II (calc.)	3	1	3						
PHY 104*	General Physics Lab II	1		1						
PHY 201	Fields and Waves	3		1	3					
PHY 203	Foundations of Modern Physics	3			Ŭ	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		4			4					
PHY 333	Computational Physics	3						3		
PHY 307	Quantum Mechanics I	3		1	İ		3	-		
	Quantum Mechanics II or 3XX/4XX	3		1	İ		-	3		
PHY 401*	Mathematical Physics	3		1	İ			-		3
PHY 405*	Statistical Physics	3		1	İ			1		3
PHY 431	Advanced Physics Lab	1		1	İ			1		
PHY 476	Physics Capstone	3		1	İ				3	
MAJOR SU		-			1				-	
MATHEMA					t					
	Calculus I	4	4							
MTH 146*	Calculus I	4	-	4						
MTH 245*	Calculus III	4		-	4					
-	Differential Equations Sci-Eng	4				4				
OTHER SC		-								
	Chemical Principles I	4					4			
	UIREMENTS	4					4			
	SOC SCI/HIST/RELIG/PHILOS									
COR 100		2	2							
	First Year Seminar	3	3							
WRT 101	Critical Writing	3	3							
HST 110	World Civilization I	3	3	0						
HST 111	World Civilization II	3		3						
PHL 110	Introduction to Philosophy	3		3	2					
PHL 210	Moral Philosophy	3 3			3		2			
EAC 1 EAC 2	Encountering Another Culture/	-			}	╎┤	3	3		
EAC 2 ENG 210	Foreign Language Major Authors	3			ł	3		3	-	
ENG 210 ENG 310	Literature & Culture	3			ł	3	3		-	
IDS	Interdiscip. NatSci/SocSci/Math	3 3			ł	┤──┨	3		3	
THE	Theology	3				╞──┨		3	3	
REL	Religious Studies					╞──┨		3	3	
	Social Science	3		3	ł	┤──┨			ు	
(SOC) COR 400	Social Science Senior Seminar:Transformations	3 3		3	ł	┤──┨			-	2
VPA		3 1			l					3
	Visual & Performing Arts				<b> </b>	╞──┨				I
	AL MASTERS PREREQUISITES*					╞──┨				
		~				├				
ECS 221**		3			3					
CEE 325**	Mechanics of Solids	3			<b> </b>	3	~			
	Structures and Materials I	3				╎	3	<u>^</u>		
	Concrete Structures	3			┠────	╎╴╹		3		
CEE 337**	Intro to Geotechnical Engineering	4			┠────	╎╴╹			4	~
	Foundation Engineering	3			<u> </u>					3
ELECTIVES					<b> </b>					
PHY 3XX/4X Major Elective 3					L					3
<b>TOTAL CREDITS</b> * Satisfies pre-requisites for admission to masters program.		133	17	17	17	17	17	16	16	<b>16</b>

\* 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 3XX4XX 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.