Le Moyne	College									
		tration in	Dro.En	aineari	na (Civi	l with Ct	ructura	l focus\*	**	
Physics Major, typical program for B.S. with Concent		u au OH IN					1			
(as of 2016-17 Academic Year)		ODEDIT	FIRST-YEAR		SOPHOMORE		JUNIOR		SENIOR	
Revised Octob		CREDIT	F	S	F	S	F	S	F	S
	QUIREMENTS					<u> </u>				
PHYSICS				1	1					
PHY 105*	General Physics I (calc.)	3	3							
PHY 103* PHY 106*	General Physics Lab I General Physics II (calc.)	1 3	1	2						
PHY 106 PHY 104*	General Physics II (caic.) General Physics Lab II	1		3						
PHY 201	Fields and Waves	3		<u>'</u>	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	1			1	2	
PHY 476	Physics Capstone	3							3	
MAJOR SUPPORT MATHEMATICS				-	-					
	Calculus I	4	4	A	-	-				
MTH 146* MTH 245*	Calculus II Calculus III	4 4		4	4					
	Differential Equations Sci-Eng	4			- 4	4				
OTHER SO						-				
	Chemical Principles I	4					4			
	UIREMENTS	<u> </u>			1		•			
ENGLISH/SOC SCI/HIST/RELIG/PHILOS										
COR 100	First Year Seminar	3	3		1					
WRT 101	Critical Writing	3	3							
HST 110	World Civilization I	3	3							
HST 111	World Civilization II	3		3	1					
PHL 110	Introduction to Philosophy	3		3						
PHL 210	Moral Philosophy	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 (SOC)	Religious Studies	3		2		-			3	
(SOC)	Social Science Senior Seminar:Transformations	3		3	-	-				2
COR 400 VPA	Visual & Performing Arts	3 1		1	1					3 1
	AL MASTERS PREREQUISITES*	<u>'</u>			<del>                                     </del>					- 1
ENGINEERING										
ECS 221**		3			3					
CEE 325**	Mechanics of Solids	3		-		3				
CEE 323 CEE 331**	Structures and Materials	3				3	3			
	Concrete Structures	3					<u> </u>	3		
CEE 337**	Intro to Geotechnical Engineering	4							4	
	Foundation Engineering	3			1				•	3
ELECTIVES										
PHY 3XX/4X Major Elective		3								3
TOTAL CR		133	17	17	17	17	17	16	16	16
								_		

<sup>\*</sup> Satisfies pre-requisites for admission to masters program. 3.0 GPA in math/science/eng & overall also required.
\*\* Taken at Syracuse University

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