Le Moyne Co		Concent	ration i	n Pre₋l	=ngine	erina (F	lectric	al)***			
Physics Major, typical program for B.S. with		CONCENT	FIRST-YEAR SOPHOMORE							OFNIOD	
(as of 2016-17 Academic Year)		CREDIT						JUNIOR		SENIOR F S	
Revised 4-20-17 MAJOR REQU	UDEMENTS	CKEDII	F	S	Г	S	F	S	F	S	
PHYSICS	JIREWEN 13										
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 Lab II	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 333	Computational Physics	3						3			
PHY 307	Quantum Mechanics I	3					3				
PHY 308/XXX	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 SUPF											
MATHEMATICS											
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					
MTH 111*	Statistics I	4		4							
MTH 311*	Intro to Probability	3					3				
OTHER SCII	ENCES										
CHM 151*	Chemical Principles I	4					4				
CORE REQUIREMENTS											
ENGLISH/SO	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		3							
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	Religious Studies	3							3		
(SOC)	Social Science Senior Seminar:Transformations	3 3								3	
COR 400 VPA		3 1						1		3	
VPA DIV	Visual & Performing Arts Diversity	0									
	MASTERS PREREQUISITES*	U	-		-					\vdash	
ENGINEERII											
ELE 231**		3			2						
ELE 231**	Electrical Engineering I (or PHY 311) Electrical Engineering Lab I	3 1			<u>3</u>						
ELE 291"" ELE 232**	Electrical Engineering II (or PHY 312)	3				3					
ELE 232 ELE 292**	Electrical Engineering II (6FPHY 312)	1				1					
ELE 331**	Digital Circuits & Systems	3					3				
ELE 333**	Analog Circuits	3					J	3			
ELE 346**	Semiconductor Devices	3						3			
ELE 351**	Systems & Signal Analysis	3							3		
ELE 351**	Digital Signal Processing	3								3	
ELECTIVES	Digital Digital Frocessing										
	Major Elective	3								3	
TOTAL CRED		140	17	18	17	18	17	17	18	18	
* O-ti-fi	170	2.0.01		. ''	٥	- 17	17	į	١٠		

^{*} 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