Le Moyne College Physics Major, typical program for B.S. with Concentration in Pre-Engineering (Mechanical and Aerospace)***										
(as of 2016-17 Academic Year)					SOPHOMORE		JUNIOR		SENIOR	
Revised 10-24-18		CREDIT	F	S	F	S	F	S	F	S
MAJOR REQ	UIREMENTS									
PHYSICS										
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 311*	Electronics I	4			4					
PHY 333*	Computational Physics Quantum Mechanics I	3					3	3		
PHY 307	Quantum Mechanics I	3 3	—				<u> </u>	3		
PHY 405*	Statistical Physics	3						 		3
PHY 431	Advanced Physics Lab	1						1		<u> </u>
PHY 476	Physics Capstone	3						 ' -	3	
MAJOR SUPI		J							3	
MATHEMATICS										
MTH 145*		4								
MTH 145*	Calculus I Calculus II	4 4	4	4						
MTH 245*	Calculus III	4		4	4					
MTH 304*	Differential Equations Sci-Eng	4			4	4				
MTH 304 MTH 311*	Intro to Probability	3				4	3			
OTHER SCI		3					3			
CHM 151*		4					4			
	Chemical Principles I	4					4			
CORE REQUIREMENTS ENGLISH/SOC SCI/HIST/RELIG/PHILOS										
COR 100		2								
WRT 101	First Year Seminar	3 3	3							
WK1 101 HST 110	Critical Writing World Civilization I	3	3							
HST 111	World Civilization II	3	_ 3	3						
PHL 110	Introduction to Philosophy	3		3						
PHL 210	Moral Philosophy	3		3				3		
EAC 1	Encountering Another Culture/	3			3			ا ا		
EAC 2	Foreign Language	3				3				
	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										
ENGINEERING										
ECS 221**	Statics	3			3					
ECS 325**	Mechanics of Solids	4				4				
ECS 326**	Engineering Materials	3							3	
MAE 315**	Mech/Aero Lab	3							3	
MAE 341**	Fluid Mechanics	4					4			
ELECTIVES										
	Major Elective	3								3
	Major Elective	3								3
TOTAL CRED		134	17	17	17	18	18	14	18	15
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^{*} 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 321 is a pre-requisite for MAE 321, so students graduating in odd-numbered years must take MAE 321 in their senior year