

Le Moyne College										
Physics Major, typical B.A. premed program (fulfilling requirements for minor in both biology & chemistry)										
(as of 2013-14 Academic Year)										
Revised 1-29-16										
	CREDIT	FIRST-YEAR		SOPHOMORE		JUNIOR		SENIOR		
		F	S	F	S	F	S	F	S	
MAJOR REQUIREMENTS										
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 307	Quantum Mechanics I	3				3				
PHY 476	Physics Capstone	3						3		
MAJOR SUPPORT										
MATHEMATICS										
MTH 145	Calculus I	4	4							
MTH 146	Calculus II	4		4						
MTH 245	Calculus III	4			4					
OTHER SCIENCES										
CHM 151	Chemical Principles I	4	4							
CHM 152	Chemical Principles II	4		4						
CORE REQUIREMENTS										
ENGLISH/SOC 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	3							3	
COR 400	Senior Seminar: Transformations	3							3	
VPA	Visual & Performing Arts	1						1		
DIV	Diversity	0								
ELECTIVES + PRE-MED										
CHM 223	Organic Chemistry I	4			4					
BIO 191	General Biology I	4			4					
CHM 224	Organic Chemistry II	4				4				
BIO 192	General Biology II	4				4				
BIO 218*	Cell & Molecular Biology	4					4			
or Elective I		4								
Elective II	Major Elective	3						3		
CHM 460**	Biochemistry I	3								
or Elective III		3							3	
CHM 462***	Biochemistry Lab	1							1	
Elective IV	Major Elective	3						3		
BIO 225**	The Poisoning of a Planet	3								
or Elective V		3							3	
CHM 461	Biochemistry II	3								
or Elective VI		3							3	
TOTAL CREDITS		130	21	18	21	18	14	9	14	15

* for Biology minor; elective otherwise ** either BIO 225 or CHM 460 (with *) for Biology minor *** not required for CHM 460 0

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.