## **Degree Worksheet**

Mason Core Requirements			Grades		
Mason Core Foundation		Credits	Earned	Needed	
Written Communication (lower-level)	ENGH 101 or ENGH 100	3			
Oral Communication		3			
Quantitative Reasoning		3			
Information Technology & Computing	Satisfied by PHYS 251	3			
Mason Core Exploration					
Arts		3			
Global Understanding		3			
Literature		3			
Natural Science Overview	Satisfied by PHYS 160 or PHYS 260	3			
Natural Science with Lab	Satisfied by PHYS 160/161 or PHYS 260/261	4			
Social and Behavioral Sciences		3			
Global History		3			
Mason Core Integration					
Written Communication (upper-level)	ENGH 302	3			
Writing Intensive	Satisfied by PHYS 407 or 410	4			
Synthesis/Capstone	Satisfied by PHYS 407 or 410	4			

Major Requirements Students must complete major requirements with a minimum GPA of 2.00				Grades			
Required Courses		Credits		Earned		Neede d	
PHYS 160 or 170 & PHYS 161	University Physics I & Lab	3	1				
PHYS 251	Intro. to Computer Techniques in Physics	;	3				
PHYS 260 or 270 & PHYS 261	University Physics II & Lab	3	1				
PHYS 262	University Physics III	3					
PHYS 301	Analytical Methods of Physics	3					
PHYS 303	Classical Mechanics	3					
PHYS 305	Electromagnetic Theory	3					
PHYS 306	Wave Motion and Electromagnetic	;	3				
	Radiation						
PHYS 307	Thermal Physics	;	3				
PHYS 311	Instrumentation	;	3				
PHYS 312	Waves and Optics	;	3				
PHYS 325	Intermediate Computer Methods in Physics	;	3				
PHYS 402	Intro. to Quantum Mechanics and Atomic	;	3				
	Physics						
MATH 113	Analytic Geometry and Calculus I		4				
MATH 114	Analytic Geometry and Calculus II		4				
MATH 213	Analytic Geometry and Calculus III	;	3				
Select 6 credits from the following: PHYS 331, PHYS 370, PHYS 403, PHYS 412			6				
Select 4 credits from the following: PHYS 407, PHYS 410			4				
Students who are not completing a second major should select 12 credits from the		6-	12				
following. Students who are completing a second major should select 6 credits: PHYS							
405, PHYS 406, PHYS 408, PHYS 409, BENG 320, ECE 415, ECE 416							

## **Degree Notes**

Students must complete a total of 74 credits in the major (68 credits if completing a second major), including at least 11 credits in mathematics, with a minimum GPA of 2.00. A total of 120 credits, with 45 numbered 300 or above, is required.