



ACCELERATED PLAN

Bachelor of Science in Physics (BS) to Master of Science in Physics (MS)

FALL COURSES	CREDITS	SPRING COURSES	CREDITS	SUMMER COURSES	CREDITS
RSP: Intro to Collegiate Life.....	0.5	RSP: Intro to Collegiate Life.....	0.5		
Composition.....	3	Oral Communications.....	1		
General Physics I (PHY 213 -OR- 221)	3	Critical Issues.....	3		
PHY 205 General Physics I Lab	1	Philosophical Ideas	3		
MTH 245 Calculus I.....	4	General Physics II (PHY 214 -OR- 222).....	3		
Elective/Minor Credit.....	3	PHY 206 General Physics II Lab	1		
TERM SUBTOTAL:	14.5	MTH 246 Calculus II.....	4		
		Elective/Minor Credit.....	3		
		TERM SUBTOTAL:	18.5		
Christian Tradition	3	Biblical Tradition	3		
Global Perspective.....	3	Understanding Social Science	3		
MTH 347 Calculus III	3	PHY 471 Classical Mechanics.....	3		
PHY 301 Modern Physics	3	PHY 497 Directed			
PHY 397 Research Methods	2	Independent Research	3		
One of MTH 350, 529, 543, 545, 561		One of MTH 350, 529, 543, 545, 561			
-OR- CHM 203 -AND- 204.....	3-4	-OR- CHM 205 -AND- 206.....	3-4		
TERM SUBTOTAL:	17-18	Elective/Minor Credit.....	2		
		TERM SUBTOTAL:	17-18		
Literature.....	3	Ethics.....	3		
Doing Social Science.....	3	Fine Arts.....	3		
PHY 303 Electronics Lab	3	PHY 481 Electricity and Magnetism			
PHY 531 Quantum Mechanics	3	-OR- Elective	3		
PHY 541 Thermo and Stat Mech		PHY 5XX Physics Elective			
-OR- Elective	3	-OR- MTH 5XX Math Elective	4		
Elective/Minor Credit.....	3	Elective/Minor Credit.....	3		
TERM SUBTOTAL:	18	TERM SUBTOTAL:	16		
Foreign Language	4	Ultimate Questions	3		
Intersections	3	PHY 499 Research Capstone	1		
Physics Advanced Lecture Elective.....	3	Elective/Minor Credit.....	3		
PHY 491 Seminar	1	PHY 5XX Elective (GR).....	3		
PHY 5XX Elective (GR).....	3	PHY 631 Quantum Mechanics -OR-			
PHY 611 Classical Mechanics -OR-		PHY 641 Statistical Mechanics.....	3		
PHY 621 Electromagnetic Theory.....	3	PHY 791 Graduate Seminar	1		
TERM SUBTOTAL:	17	TERM SUBTOTAL:	14		
PHY 611 Classical Mechanics -OR-					
PHY 621 Electromagnetic Theory.....	3	PHY 631 Quantum Mechanics -OR-			
PHY 791 Graduate Seminar	1	PHY 641 Statistical Mechanics.....	3		
PHY 797 Directed Independent Research....	2	PHY 791 Graduate Seminar	1		
PHY 799 Master's Thesis	2	PHY 799 Master's Thesis	4		
TERM SUBTOTAL:	8	TERM SUBTOTAL:	8		

GRAND TOTAL:..... 148-150

118-120 Undergraduate + 30 Graduate Credit Hours
14 credit hours used by both BS and MS Degree



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CORE REQUIREMENTS	CREDITS	COURSES IN MAJOR THAT SATISFY THE CORE REQUIREMENT	MAJOR	CREDITS
MAGIS CORE—FOUNDATIONS				
Composition.....	3		General Physics I (PHY 213 -OR- 221).....	3
Critical Issues.....	3		PHY 205 General Physics Lab I.....	1
Oral Communication.....	1		General Physics II (PHY 214 -OR- 222).....	3
Math Reasoning.....	2	MTH 245 Calculus I	PHY 206 General Physics Lab II.....	1
Philosophical Ideas.....	3		PHY 301 Modern Physics.....	3
Christian Tradition.....	3		PHY 303 Electronics Lab.....	1
			PHY 331/2 Optics and Optics Lab.....	4
			PHY 397 Research Methods.....	2
			PHY 471 Classical Mechanics.....	3
			PHY 497 Directed Independent Research...1	
			PHY 481 Electricity and Magnetism	
			-OR- Elective.....	3
			PHY 499 Research Capstone.....	1
			PHY 531 Quantum Mechanics.....	3
			PHY 541 Thermo and Stat Mech.....	3
			MTH 245 Calculus I.....	4
			MTH 246 Calculus II.....	4
			MTH 347 Calculus III.....	3
			Two of MTH 350, 529, 543, 545, 561	
			-OR- CHM 203, 204, 205, 206.....	6–8
MAGIS CORE—EXPLORATIONS				
Understanding Natural Science.....	4	General Physics I (PHY 213 -OR- PHY 221)		
Understanding Social Science.....	3			
Global Perspectives.....	3			
Literature.....	3			
Ethics.....	3			
Biblical Tradition.....	3			
Fine Arts.....	3			
Foreign Language.....	4			
MAGIS CORE—INTEGRATIONS				
Intersections.....	3			
Doing Natural Science.....	4	General Physics with Lab II (PHY 206)		
Doing Social Science.....	3			
Ultimate Questions.....	3			
DESIGNATED COURSES				
Oral Communication		PHY 491 Seminar		
Written Communication		PHY 499 Research Capstone		
Statistical Reasoning		PHY 397 Research Methods		
Ethics		PHY 491 Seminar		
Technology		PHY 499 Research Capstone		

Masters classes shown in **LIGHT BLUE** will be taken while an undergraduate student. Masters classes shown in **GRAY** will be taken while a graduate student.

OTHER NOTES

This plan is an example of Creighton's **Accelerated Bachelor's to Master's** program and how one might accomplish this path. Please note, each student will have a unique background and set of circumstances that must be considered in their plan.

FOR MORE INFORMATION

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Creighton
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Graduate School