



ACCELERATED PLAN

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

FALL COURSES		CREDITS		SPRING COURSES		CREDITS		SUMMER COURSE		CREDITS	
RSP: Intro to Collegiate Life	0.5	RSP: Intro to Collegiate Life	0.5								
Composition	3	Oral Communications	1								
General Physics I	3	Critical Issues	3								
(PHY 213 -OR- 221)	3	Philosophical Ideas	3								
General Physics I Lab	1	General Physics II	3								
(PHY 205 -OR- PHY 223)	1	(PHY 214 -OR- 222)	3								
MTH 245 Calculus I	4	General Physics II Lab	1								
Elective/Minor Credit	3	(PHY 206 -OR- PHY 224)	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	3								
PHY 397 Research Methods	2	Independent Research	3								
One of MTH 350, 529, 543, 545, 561	3-4	One of MTH 350, 529, 543, 545, 561	3-4								
-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	3								
PHY 531 Quantum Mechanics	3	-OR- Elective	3								
PHY 541 Thermo and Stat Mech	3	PHY 5XX Physics Elective	4								
-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-	3								
PHY 611 Classical Mechanics -OR-	3	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-	3	PHY 631 Quantum Mechanics -OR-	3								
PHY 621 Electromagnetic Theory	3	PHY 641 Statistical Mechanics	3								
PHY 791 Graduate Seminar	1	PHY 791 Graduate Seminar	1								
PHY 797 Directed	2	PHY 799 Master's Thesis	4								
Independent Research	2	PHY 799 Master's Thesis	4								
PHY 799 Master's Thesis	2	TERM SUBTOTAL:	8								
TERM SUBTOTAL:	8										

GRAND TOTAL: 148-150
118-120 Undergraduate + 30 Graduate Credit Hours
14 credit hours used by both BA and MS Degree



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CORE REQUIREMENTS	CREDITS	COURSES IN MAJOR THAT SATISFY THE CORE REQUIREMENT	MAJOR	CREDITS
MAGIS CORE—FOUNDATIONS			General Physics I (PHY 213 -OR- 221)	3
Composition	3		General Physics Lab I (PHY 205 -OR- PHY 223)	1
Critical Issues*	3		General Physics II (PHY 214 -OR- 222)	3
Oral Communication	1	MTH 245 Calculus I	General Physics Lab II (PHY 206 -OR- PHY 224)	1
Math Reasoning	2		PHY 301 Modern Physics	3
Philosophical Ideas	3		PHY 303 Electronics Lab	1
Christian Tradition	3		PHY 331/2 Optics and Optics Lab	4
MAGIS CORE—EXPLORATIONS			PHY 397 Research Methods	2
Understanding Natural Science	4	General Physics I (PHY 213 -OR- PHY 221)	PHY 471 Classical Mechanics	3
Understanding Social Science	3		PHY 497 Directed	
Global Perspectives	3		Independent Research	1
Literature	3		PHY 481 Electricity and Magnetism	
Ethics	3		-OR- Elective	3
Biblical Tradition	3		PHY 499 Research Capstone	1
Fine Arts	3		PHY 531 Quantum Mechanics	3
Foreign Language	4		PHY 541 Thermo and Stat Mech	3
MAGIS CORE—INTEGRATIONS			MTH 245 Calculus I	4
Intersections*	3	General Physics with Lab II (PHY 206 -OR- PHY 224)	MTH 246 Calculus II	4
Doing Natural Science	4		MTH 347 Calculus III	3
Doing Social Science	3		Two of MTH 350, 529, 543, 545, 561	
Ultimate Questions	3		-OR- CHM 203, 204, 205, 206	6–8
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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