ACCELERATED PLAN

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

FALL COURSES	CREDITS
RSP: Intro to Collegiate Life	0.5
Composition	3
General Physics I (PHY 213 ***-OR-*** 221)	3
General Physics I Lab (PHY 205 ***-OR-*** PHY 223)	1
MTH 245 Calculus I	4
Elective/Minor Credit	3
TERM SUBTOTAL:	**14.5**
Christian Tradition	3
Global Perspective	3
MTH 347 Calculus III	3
PHY 301 Modern Physics	3
PHY 397 Research Methods	2
One of MTH 350, 529, 543, 545, 561 ***-OR-*** CHM 203 -AND- 204	3–4
TERM SUBTOTAL	**17–18**
Literature	3
Doing Social Science	3
PHY 531 Quantum Mechanics	3
PHY 541 Thermo and Stat Mech ***-OR-*** Elective	3
Elective/Minor Credit	3
TERM SUBTOTAL:	**15**
Foreign Language	4
Intersections	3
Physics Advanced Lecture Elective	3
PHY 491 Seminar	1
PHY 5XX Elective (GR)	3
PHY 611 Classical Mechanics ***-OR-*** PHY 621 Electromagnetic Theory	3
TERM SUBTOTAL:	**17**
PHY 611 Classical Mechanics ***-OR-*** PHY 621 Electromagnetic Theory	3
PHY 791 Graduate Seminar	1
PHY 797 Directed Independent Research	2
PHY 799 Master's Thesis	2
TERM SUBTOTAL:	**8**

SPRING COURSES	CREDITS
RSP: Intro to Collegiate Life	0.5
Oral Communications	1
Critical Issues	3
Philosophical Ideas	3
General Physics II (PHY 214 ***-OR-*** 222)	3
General Physics II Lab (PHY 206 ***-OR-*** PHY 224)	1
MTH 246 Calculus II	4
Elective/Minor Credit	3
TERM SUBTOTAL:	**18.5**
Biblical Tradition	3
Understanding Social Science	3
PHY 471 Classical Mechanics	3
PHY 497 Directed Independent Research	3
One of MTH 350, 529, 543, 545, 561 ***-OR-*** CHM 205 ***-AND-*** 206	3–4
Elective/Minor Credit	2
TERM SUBTOTAL:	**17–18**
Ethics	3
Fine Arts	3
PHY 481 Electricity and Magnetism & PHY 303 Electronics Lab ***-OR-*** PHY 511 Physical Optics & PHY 512 Optics Laboratory	4
PHY 5XX Physics Elective ***-OR-*** MTH 5XX Math Elective	4
Elective/Minor Credit	3
TERM SUBTOTAL:	**17**
PHY 481 Electricity and Magnetism & PHY 303 Electronics Lab ***-OR-*** PHY 511 Physical Optics & PHY 512 Optics Laboratory	4
Ultimate Questions	3
PHY 499 Research Capstone	1
Elective/Minor Credit	3
PHY 631 Quantum Mechanics ***-OR-*** PHY 641 Statistical Mechanics	3
PHY 791 Graduate Seminar	1
TERM SUBTOTAL:	**15**
PHY 5XX Elective (GR)	3
PHY 631 Quantum Mechanics ***-OR-*** PHY 641 Statistical Mechanics	3
PHY 791 Graduate Seminar	1
PHY 799 Master's Thesis	4
TERM SUBTOTAL:	**11**

SUMMER COURSE	CREDITS

GRAND TOTAL: 148–150

118–120 Undergraduate + 30 Graduate Credit Hours

14 credit hours used by both BA and MS Degree

ACCELERATED PLAN

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

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		General Physics Lab II (PHY 206 ***-OR-*** PHY 224)	1
Math Reasoning	2	MTH 245 Calculus I	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 Independent Research	1
Global Perspectives	3		PHY 481 Electricity and Magnetism ***-OR-*** Elective	3
Literature	3		PHY 499 Research Capstone	1
Ethics	3		PHY 531 Quantum Mechanics	3
Biblical Tradition	3		PHY 541 Thermo and Stat Mech	3
Fine Arts	3			
Foreign Language	4			
MAGIS CORE—INTEGRATIONS				
Intersections*	3		MTH 245 Calculus I	4
Doing Natural Science	4	General Physics with Lab II	MTH 246 Calculus II	4
Doing Social Science	3	(PHY 206 ***-OR-*** PHY 224)	MTH 347 Calculus III	3
Ultimate Questions	3		Two of MTH 350, 529, 543, 545, 561 ***-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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Creighton UNIVERSITY
Graduate School