



ACCELERATED PLAN

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

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 -OR- Elective.....	1
			PHY 351 Physics in Medicine	
			-OR- PHY 353 Intro to Biological Physics.....	3
MAGIS CORE—EXPLORATIONS				
Understanding Natural Science.....	4	General Physics I (PHY 213 -OR- PHY 221)	PHY 397 Research Methods.....	2
Understanding Social Science.....	3		PHY 471 Classical Mechanics.....	3
Global Perspectives.....	3		PHY 497 Directed 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	
			-OR- Elective.....	3
MAGIS CORE—INTEGRATIONS				
Intersections.....	3	General Physics with Lab II (PHY 206)	PHY 553 Computational Physics.....	3
Doing Natural Science.....	4		PHY 561 Nuclear Physics.....	3
Doing Social Science.....	3		PHY 562 Nuclear Instruments/ Methods Lab.....	2
Ultimate Questions.....	3		PHY 565 Radiation Biophysics.....	3
			PHY 566 Physics of Medical Imaging I.....	3
			PHY 567 Physics of Medical Imaging II.....	3
DESIGNATED COURSES				
Oral Communication		PHY 491 Seminar	MTH 245 Calculus I.....	4
Written Communication		PHY 499 Research Capstone	MTH 246 Calculus II.....	4
Statistical Reasoning		PHY 397 Research Methods	MTH 347 Calculus III.....	3
Ethics		PHY 491 Seminar	MTH 350 Applied Linear Algebra and Differential Equations.....	3
Technology		PHY 499 Research Capstone	CHM 203 General Chemistry I.....	3
			CHM 204 General Chemistry Lab I.....	1
			CHM 205 General Chemistry II.....	3
			CHM 206 General Chemistry Lab II.....	1
			BIO 201 General Biology I.....	1
			BIO 205 General Biology Lab I.....	3
			BIO 202 General Biology II.....	1
			BIO 206 General Biology Lab II.....	3
			BIO 333 Comparative Vertebrate Anatomy....	3
			BIO 449 Animal Physiology.....	4

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.

Students will complete six (6) credit hours based on the identified courses offered per semester:

*PHY 567 Physics of Medical Imaging II -AND- PHY 661 Physics of Radiation Therapy -OR- PHY 562 Nuclear Instruments and Methods Lab -AND- PHY 565 Radiation Biophysics

**PHY 553 Computational Physics -AND- PHY 662 Dosimetry and Radiation Protection -OR- PHY 561 Nuclear Physics -AND- PHY 566 Physics of Medical Imaging I

FOR MORE INFORMATION

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Graduate School