

Student:		Minimum 124 semester hours required for graduation 18 of the last 24 hours must be at Houghton Must have 30 hours at Houghton One half of major must be at Houghton <i>Must have C- or above in each course to meet Major, Concentration, or Minor credit</i> <i>Must have 93 liberal arts credits for BA degree</i>	
Major: Biology (Pre-Physical Therapy Emphasis)			
Minor: Pre-PT/Athletic Training			
BA	Advisor:		
Biology (Pre-PT Emphasis) Major (58-62 hrs)			
General Education (see GenEd Audit Sheet)			
Pre-Requisites			8 hrs
(4) BIOL 151 General Bio: Organisms to Ecosystems LA		Note: unless a grade of C- is earned in the lecture component of both BIOL 151 and BIOL 152 students must enroll concurrently in BIOL 151 or BIOL 152 if also enrolling in 200 level or higher biology courses.	
(4) BIOL 152 General Bio: Cellular Biology and Genetics LA			
Co-Requisites			20-24 hrs
(4) CHEM 151 General Chemistry I LA		(4) CHEM 152 General Chemistry II LA	
(4) PHYS 151 Physics I LA		(4) PHYS 152 Physics II LA	
(4/4,4) MATH 181 Calculus I <u>or</u> MATH 170/171 Calculus I with Pre-calculus A & B <u>or</u> MATH 160 Mathematics for the Life Sciences and MATH 161 Calculus for the Life Sciences LA			
Half the credits listed below must be taken at Houghton			
Core Requirements			30 hrs
(4) BIOL 217 Human Anatomy and Physiology I LA		(4) BIOL 218 Human Anatomy and Physiology II LA	
(4) BIOL 251 Genetics LA		(4) PHED 330 Physiology of Exercise	
(4) PHED 341 Kinesiology		(4) BIOL XXX electives LA	
(2) BIOL 482 Senior Capstone: Senior Seminar LA		(4) LA	
Pre-PT Athletic Training Minor			14.5-16 hrs
(2/.5) PHED 308 First Aid & Safety <u>or</u> PHED 208 First Aid/CPR/AED		(2) PHED 348 Therapeutic Exercise Management of Injuries	
(2) PHED 347 Therapeutic Modalities	(2) PHED 281 Pre-PT Field Exp. I	(2) PHED 381 Pre-PT Field Exp. II	
(3) PHED 243 Prevention, Assessment & Management of Lower Extremity Injuries			
(3) PHED 245 Prevention, Assessment & Management of Upper Extremity Injuries			
Highly recommended but not required:			
(1) STEM Career Seminar			