

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 62 liberal arts credits for BS degree</i>	
Major: Applied Physics (<i>Engineering emphasis</i>)			
Minor:			
BS	Advisor:		
Applied Physics Major (64 - 68 hrs)			
Integrative Studies (<i>see IS Audit Sheet – Creation: Lab Science and 2nd Creation met by major</i>)			
Pre-Requisites			16-20 hrs
(4) General Physics I	LA	(4) General Physics II	LA
(4/4,4) Calculus I OR Calculus I with Pre-calculus A & B OR Calculus for Life Sciences A & B			LA
(4) Calculus II	LA		
Co-Requisites			12 hrs
(4) Differential Equations	LA	(4) Multivariate Calculus	LA
(4) General Chemistry I (LA)	OR →	(4) Programming I	
Half of credits listed below must be taken at Houghton			
Core Requirements			36 hrs
(4) Statics and Engineering Design	LA	(4) Mechanics I	LA
(4) Analog Electronics	LA	(4) Digital Electronics	LA
(2) Modern Physics	LA	(1,1) Experimental Physics Lab	LA
(4) Electricity and Magnetism I	LA	(4) Thermal Physics	LA
(1,1) Physics Project Lab	LA	(1) Physics Seminar	LA
(1) STEM Career Seminar			
One 4 hour advanced theory course selected from:			
(4) Mechanics II	LA	(4) Electricity and Magnetism II	LA
(4) Quantum Mechanics	LA		
Additional recommended supporting courses:			
(4) Optics	LA	(4) General Chemistry II	LA
(3) Principles of Microeconomics	LA	(3) Entrepreneurship	