



B.S. Applied Science

2018

Applied Physics Concentration

NOTE: This document is meant to display your degree requirements. The Academic Requirements Report must be used to track progress toward fulfilling all degree requirements. The Academic Requirements Report must show all requirements "satisfied" before your degree is awarded.

Name	Student ID	Concentration
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University Degree Requirements

Overall Credit and GPA Requirements

Total Credits (120)	
Resident Credits (32)	
Stout GPA (2.000)	

Racial and Ethnic Studies (6 credits)

(Select three credits from RES Category A)

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(Select three credits from any RES area)

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Global Perspective (6 credits)

(Complete a program of university-approved work or study abroad, or 6 credits of global perspective approved courses)

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NOTE: RES and GLP requirements may be met within GE or major course selection.

General Education Requirements (40-42 credits)

Communication Skills (9 credits)

Analytic Reasoning and Natural Science (14-15 credits)

(At least one math or statistics course and a natural science course with a lab are required)

MATH-153 Calculus I	or	4-5
MATH-156 Calculus and Analytic Geometry		
MATH-154 Calculus II	or	4-5
MATH-157 Calculus and Analytic Geometry II		
CHEM-135 College Chemistry I		5

Arts and Humanities (6 credits)

(Must be from at least two categories: Art History/Music Appreciation, Creative/Performing Arts, Foreign Language & Culture, History, Literature, Philosophy)

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Social and Behavioral Sciences (6 credits)

(Must be from at least two categories: Anthropology, Economics, Geography, Political Science, Psychology, Sociology)

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Cross Disciplinary Issues (3 credits)

(Courses must be selected from the list of approved contemporary issues courses)

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Social Responsibility and Ethical Reasoning (3 credits)

(Courses must be selected from the list of approved social responsibility and ethical reasoning courses)

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Applied Physics Requirements (59-60 Credits)

APSC-101	Applied Science Profession I	1
APSC-349	* Co-op	or
APSC-398	Field Experience	or
APSC-449	Co-op	1
APSC-401	Applied Science Profession II	1
CEE-355	Applied Electromagnetics	4
CS-144	Computer Science I	4
CS-145	Computer Science II	4
ME-390	Thermodynamics	or
ENGR-275	Thermodynamics and Heat Transfer	3
MATH-250	Diff Equations w/Linear Algebra	or
MATH-255	Differential Equations and	3
MATH-275	Linear Algebra	
NANO-230	Characterization of Nanomaterials	3
PHYS-335	Applied Optics and Photonics	3
PHYS-281	University Physics I	or
PHYS-291	Statics and	5-6
ENGR-292	Dynamics	
PHYS-282	University Physics II	5
PHYS-313	Intro to Quantum: Modern Physics	3
PHYS-427	Solid State and Condensed Matter Physics	3
PHYS-413	Quantum Mechanics	3
PHYS-139	Intro to Research Methods in Physics	3
PHYS-439	Advanced Physics Laboratory	3
PHYS-381	Computational Classical Mechanics	3
CEE-205	Circuit Analysis and Design	or
ENGR-290	Circuits And Devices	4

*On rare occasions the co-op/field experience may include extra hours to merit additional credits which can be used as electives.

Technical Electives (21 credits)

Choose any 300 level or higher CEE-, CHEM-, CS-, ENGR-, MATH-, ME-, MSCS-, NANO- courses approved by your program director or a course from the following list to fulfill the 120 credit graduation requirement.

CEE-215	Electronics	4
CEE-235	Signals and Systems	3
CHEM-136	College Chemistry I	5
CS-244	Data Structures	4
ELEC-290	Circuits and Devices	4
ENGL-410	Scientific Communication	3
MFGE-363	Controls and Instrumentation	4
MFGE-391	Fluid Mechanics	3
PHYS-329	Atomic and Nuclear Physics	3
PHYS-489	Advanced Physics Experience	1

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