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PHYSICS | BACHELOR OF ARTS: PHYSICS

Program Summary

Code	Title	Hours
General Education		34
Bachelor of Arts Lang	guage Requirement	10
Major Courses		16
Major Electives		12
Laboratory Electives		1
Projects		1
Cognates		20
Open Electives ¹		26
Total Hours		120

Open electives are the credit hours required to reach a minimum of 120 total hours and 45 upper-level hours. The number listed assumes all courses are completed at FHSU as listed. This number may vary if students transfer courses, or have individual substitutions allowed. Students should speak with their advisor if either situation applies to determine if the number will vary, and to ensure they enroll in a minimum of 45 upper-level hours. Students entering within 1 year of high school graduation will take UNIV 101 Freshman Seminar and may apply that hour in the open elective category.

Program Requirements

General Education

All undergraduate degrees require completion of the Kansas Systemwide General Education (https://catalog.fhsu.edu/general-education/).

Courses identified with ^{GE} on this page may satisfy a general education requirement in addition to the identified degree requirement. Students who apply a degree requirement to satisfy a general education requirement will typically add an equal number of hours to the the university elective category. This flexibility may allow you to complete a minor or certificate within the 120 hour degree. Transfer students and students majoring in programs with approved exceptions (https://www.fhsu.edu/general-education/documents/fhsu-gen-ed-transfer-exceptions-explainer1.pdf) are especially encouraged to select these courses in completing General Education requirements to maximize the likelihood of completing the degree with 120 credit hours.

Code	Title	Hours
General Education		34-35

BA Language Requirement

All FHSU students pursuing a BA degree are required to take two consecutive non-English language classes. Students taking beginning Spanish or French classes may be able to apply the first class to the Arts and Humanities area of the general education requirement.

Code	Title	Hours
Bachelor of A	Arts Language Requirement	10

Major

Total Hours

Major						
Code	Title	Hours				
Introduction to Phys	Introduction to Physics					
PHYS 100	Introduction to Physics and Engineering	3				
PHYS 211 & 211L	Engineering Physics I and Engineering Physics I Laboratory ^{GE}	5				
PHYS 212 & 212L	Engineering Physics II and Engineering Physics II Laboratory ^{GE}	5				
PHYS 313	Modern Physics	3				
Projects						
PHYS 603	Projects I	1				
or PHYS 675	Senior Seminar					
Physics Electives						
Select four of the fol	lowing:	12				
PHYS 221	Statics					
PHYS 312	Scientific Computing and Productivity					
PHYS 331	Electronic Circuits					
PHYS 332	Analog and Digital Electronics					
PHYS 333	Introduction to Computational Physics					
PHYS 608	Special Topics I					
PHYS 620	Mathematics for the Physical Sciences					
PHYS 621	Mechanics					
PHYS 632	Electricity and Magnetism					
PHYS 652	Optics					
PHYS 672	Thermal Physics					
PHYS 677	Quantum Mechanics I					
Laboratory Electives						
Select one course fro	om the following:	1				
PHYS 601	Computational Physics Laboratory					
PHYS 651	Advanced Physics Laboratory I					
PHYS 654	Advanced Physics Laboratory II					
Cognates						
CHEM 120	University Chemistry I					
& 120L	and University Chemistry Laboratory I GE					
MATH 234	Analytic Geometry and Calculus I ^{GE}					
MATH 235	Analytic Geometry and Calculus II					
MATH 236	Analytic Geometry and Calculus III					
MATH 354	Differential Equations					
BIOL 442	Scientific Communication					
or GSCI 685	Writing in the Sciences					
Open Electives						
Select 26 credits of f not required:	ree electives. The following are suggested,	26				
CHEM 122	University Chemistry II					
& 122L	and University Chemistry Laboratory II GE					
MATH 240	Linear Algebra					
MATH 350	Mathematical Statistics					
CSCI 121	Computer Science I					

Degree Requirements

Code Title Hours

Bachelor of Arts Degree Language Requirement

Two consecutive semesters of a non-English Language

All bachelor degrees require:

GPA of 2.0 on FHSU courses & 2.0 on all coursework (Higher program requirements prevail over the 2.0 when set)

A minimum of 30 hours earned from FHSU with a grade of D, C, B, or A $\,$

Successful completion of an upper division Writing and Information Literacy course (Most majors contain a course designated)

A minimum of 45 hours of recognized upper division credit

A minimum of 120 hours of recognized college credit