

PHYSICS | BACHELOR OF ARTS: PHYSICS

Degree Maps

Course	Title	Hours
First Year		
Fall		
ENG 101	English Composition I (SGE010 - English Discipline Area)	3
COMM 100	Fundamentals of Oral Communication (SGE020 - Communication Discipline Area)	3
PHYS 100	Introduction to Physics and Engineering	3
UNIV 101	Freshman Seminar	1
MATH 234	Analytic Geometry and Calculus I (SGE030 - Math Statistics Discipline Area)	5
Hours		15
Spring		
ENG 102	English Composition II (SGE010 - English Discipline Area)	3
MATH 235	Analytic Geometry and Calculus II	5
PHYS 211 & 211L	Engineering Physics I and Engineering Physics I Laboratory	5
SGE070 - Institutionally Designated Area: Personal and Professional Development		3
Hours		16
Second Year		
Fall		
MATH 236	Analytic Geometry and Calculus III	3
PHYS 333	Introduction to Computational Physics	3
PHYS 212 & 212L	Engineering Physics II and Engineering Physics II Laboratory	5
SGE050 - Social Behavioral Sciences Discipline Area		3
Hours		14
Spring		
CHEM 120 & 120L	University Chemistry I and University Chemistry Laboratory I	5
PHYS 313	Modern Physics	3
MATH 354	Differential Equations	3
Concentration Course		3
Hours		14
Third Year		
Fall		
PHYS 332	Analog and Digital Electronics	3
PHYS 620	Mathematics for the Physical Sciences	3
PHYS 632	Electricity and Magnetism	3
Concentration Course		3
SGE060 - Arts Humanities Discipline Area		3
Hours		15
Spring		
PHYS 621	Mechanics	3
PHYS 672	Thermal Physics	3
PHYS 651	Advanced Physics Laboratory I	2
PHYS 603	Projects I	1
Concentration Course		3
SGE050 - Social Behavioral Sciences Discipline Area		3
Hours		15
Fourth Year		
Fall		
PHYS 603	Projects I	2
PHYS 105	Critical Thinking for Scientists (SGE070 - Institutionally Designated Area: Critical Thinking)	3

PHYS 677	Quantum Mechanics I	3
Beginning Language Course 1 (Bachelor of Arts Language Requirement)		5
Open Electives		3
Hours		16
Spring		
PHYS 675	Senior Seminar	1
PHYS 652	Optics	3
PHYS 603	Projects I	3
SGE060 - Arts Humanities Discipline Area		3
Beginning Language Course 2 (Bachelor of Arts Language Requirement)		5
Hours		15
Total Hours		120

Academic Degree Maps are term-by-term sample course plans that specify milestones, courses, and special requirements that are necessary for facilitating on-time completion. Degree Maps are *examples* and are not prescriptive. Individualized choices such as concentration options, transfer credits, optional minors, advisory programs (certificates), etc. can alter the recommended coursework. Course offerings are subject to change. Students should consult with their academic advisors for additional guidance on course planning.

To determine courses to take in the directed choices (often listed as Program Elective Course) and directed elective course blocks see the overview tab for courses. To locate approved courses in General Education areas (Undergraduate Programs) see the general education section (<https://catalog.fhsu.edu/general-education/>) of the catalog.

The undergraduate course maps typically advise the most efficient route for students to complete the general education requirements. Courses that are required in the major may be listed as fulfilling relevant general education requirements. This will result in more open elective course hours in some maps than is listed on the degree overview page.