

Bachelor of Science in Physics - Applied Physics Concentration

Major in Physics Applied Physics Concentration — Major Requirements - 11 units

Code	Title	Units
General Education Requirements		
The student must complete the General Education Requirements for the College of Arts & Sciences.		9
Major Requirements		
PHYS 141P	University Physics I	1
PHYS 142P	University Physics II	1
PHYS 243	Modern Physics	1
PHYS 312	Laboratory Techniques	1
PHYS 380	Physics Colloquium	0
PHYS 497	Senior Project Proposal	.5
PHYS 498	Senior Project	1
PHYS 499	Senior Seminar	.5
Select one unit from the following in Computer Science:		1
CSCI 261	Data Science I (Recommended)	
CSCI 141	Introduction to Computer Science I	
Select three units from the following:		3
PHYS 352	Optics	
PHYS 356	Electronics	
PHYS 397	Internship in Physics	
PHYS 412	Advanced Laboratory Techniques	
Select one unit from the following:		1
PHYS 251	Biophysics	
PHYS 362	Thermophysics	
Collateral Requirements		
MATH 141Q	Calculus I with Analytic Geometry ¹	1
MATH 142Q	Calculus II with Analytic Geometry	1
MATH 211Q	Linear Algebra	1
Recommended Courses		
The following courses are strongly recommended for the Applied Physics track:		
CHEM 141P	General Chemistry I	1
CHEM 142P	General Chemistry II	1
General Electives		7
Total Units		32

¹ Students not prepared to take MATH 141Q will be allowed to substitute MATH 130/MATH 131Q

General Education Requirements

All students in the College of Arts and Sciences must meet General Education requirements in addition to specific requirements within the major area of study.

Each student must complete at least four writing or writing enhanced (WE) courses to complete the University Writing Requirement. At least two of these courses must be from General Education. Based upon Admissions application information, students may be placed in ENGL 100; ENGL 100 will count toward the Writing requirement if completed with a minimum grade of C.

A single course may not be used to meet more than one of the General Education requirements, but a single course may count toward a General Education requirement and the student's major or minor requirements, as well as count as a Writing Enhanced course in the Writing requirement. Students should check with their advisor regarding the eligibility of transfer credits to meet General Education requirements after students have enrolled at Stetson. A key component of a liberal education is to learn about the modes of inquiry from a diverse set of disciplines, so no more than 3 courses used to meet General Education requirements may come from a single department and at least 16 of the 32 units required for graduation must come from departments outside the department of the major.

For many majors, certain courses outside the major field of study are required. These courses are called "collateral requirements."

A student majoring in Education may count among the 32 units as many in the major as are required for completion of an approved program for teacher certification by the State of Florida.

Code	Title	Units
Foundations ¹		
Writing Requirement		
FSEM 100	First Year Seminar	1
Quantitative Reasoning (any Q course)		1
Junior Seminar		1
Knowledge of Human Cultures and the Natural World		
Select five of the following: ²		5
Creative Arts (any A course, or 4 - MUSC, MUSA or MUSE credit courses)		
Culture and Belief (any B course)		
Historical Inquiry (any H course)		
Individuals, Societies, and Social Systems (any S course)		
Modern Languages (any L course)		
Physical and Natural World (any P course)		
Personal and Social Responsibility		
Select any 'Stetson Values (V)' course		1
Total Units		9

Cultural Events/Campus Engagement

In addition to completing 32 course units, students join Stetson's intellectual and creative life outside the classroom by participating in at least 24 approved cultural events at Stetson. These events include lectures by distinguished visitors, musical performances, plays, and art shows. Students may also view the list of approved cultural

events³ under Calendar of Events at <https://www.stetson.edu/other/calendar/> and selecting Deland Campus.

¹ Foundation courses may not be taken pass/fail.

² 1 unit each from 5 out of the 6 areas.

³ The Calendar of Events (<https://www.stetson.edu/other/calendar/>) for the Deland campus identifies Cultural Events as those marked with a turquoise blue colored square in the lower-left corner of the event block.