

College of Science
Department of Physics
Bachelor of Arts in Physics
Major in Physics
Pre-Law Option
For students graduating in calendar year 2017

I. Curriculum for Liberal Education (38 credit hours)

All courses must be on the University's approved list for the Curriculum for Liberal Education.

Area 1 - Writing and Discourse (6 credit hours)

ENGL 1105 Freshman English 3 ENGL 1106 Freshman English 3

Area 2 - Ideas, Cultural Traditions and Values (6 credit hours)

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Area 3 - Society and Human Behavior (6 credit hours)

_____ 3 _____ 3

Area 4 - Scientific Reasoning and Discovery (8 credit hours)

PHYS 2305 Foundations of Physics I 4 PHYS 2306 Foundations of Physics I 4

Area 5 - Quantitative and Symbolic Reasoning (6 credit hours)

MATH 1205 Calculus 3 MATH 1206 Calculus 3

Area 6 - Creativity and Aesthetic Experience (3 credit hours: College of Science requirement)

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Area 7 - Critical Issues in a Global Context (3 credit hours)

PHYS 2074 Highlights in Contemporary Physics 3

Note: The VIEWS requirement will be met with in-major classes.

II. Foreign Language

In order to graduate, students must meet a language study requirement. The College of Science requires three units of a single foreign or classical language (or American Sign Language) during high school. Students who do not satisfy the foreign language requirement in high school may do so by taking the second semester of a college-level foreign or classical language (or American Sign Language). These credit hours do not count toward the total minimum hours required of the declared degree program.

III. Physics (29 credit hours)

PHYS 2325 Seminar for Physics Majors	1 <input type="checkbox"/>	Two courses from the list below:	
PHYS 2326 Seminar for Physics Majors	1 <input type="checkbox"/>	PHYS 3655 Introduction to Astrophysics	3 <input type="checkbox"/>
PHYS 2504 Mathematical Methods in Physics	3 <input type="checkbox"/>	PHYS 3656 Introduction to Astrophysics	3 <input type="checkbox"/>
PHYS 3314 Intermediate Laboratory	3 <input type="checkbox"/>	PHYS 4504 Introduction to Nuclear and Particle Physics	3 <input type="checkbox"/>
PHYS 3324 Modern Physics	4 <input type="checkbox"/>	PHYS 4554 Introduction to Solid State Physics	3 <input type="checkbox"/>
PHYS 3355 Intermediate Mechanics	3 <input type="checkbox"/>	PHYS 4574 Nanotechnology	3 <input type="checkbox"/>
PHYS 3405 Intermediate Electricity and Magnetism	3 <input type="checkbox"/>	PHYS 4614 Optics	3 <input type="checkbox"/>
PHYS 3704 Thermal Physics	3 <input type="checkbox"/>	PHYS 4654 Modern Cosmology	3 <input type="checkbox"/>
PHYS 4315 Modern Experimental Physics	2 <input type="checkbox"/>	PHYS 4674 Introduction to General Relativity	3 <input type="checkbox"/>
		PHYS 4714 Introduction to Biophysics	3 <input type="checkbox"/>
		PHYS 4755 Intro to Computational Physics	3 <input type="checkbox"/>

IV. Mathematics (10 credit hours)

MATH 1114 Elementary Linear Algebra	2 <input type="checkbox"/>	MATH 1224 Vector Geometry	2 <input type="checkbox"/>
<u>or</u> MATH 1114H Elementary Linear Algebra	2 <input type="checkbox"/>	<u>or</u> MATH 1224H Vector Geometry	2 <input type="checkbox"/>
MATH 2214 Introduction to Differential Equations	3 <input type="checkbox"/>	MATH 2224 Multivariable Calculus	3 <input type="checkbox"/>
<u>or</u> MATH 2214H Introduction to Differential Equations	3 <input type="checkbox"/>	<u>or</u> MATH 2224H Multivariable Calculus	3 <input type="checkbox"/>

V. Other Required Courses (11 credit hours)

COS 2304 Legal Foundations of Intellectual Property	3 <input type="checkbox"/>	COMM 2004 Public Speaking	3 <input type="checkbox"/>
COS 4304 Patent Law	2 <input type="checkbox"/>	ENGL 3764 Technical Writing	3 <input type="checkbox"/>

VI. Programming Course (3 credit hours)

One course from the list below:

CS 1044 Introduction to Programming in C	3 <input type="checkbox"/>	CS 1114 Introduction to Software Design	3 <input type="checkbox"/>
CS 1064 Introduction to Programming in Python	3 <input type="checkbox"/>	CS 1124 Introduction to Media Computation	3 <input type="checkbox"/>

VII. Free Electives (29 credit hours)

	- <input type="checkbox"/>		- <input type="checkbox"/>
	- <input type="checkbox"/>		- <input type="checkbox"/>
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	- <input type="checkbox"/>		- <input type="checkbox"/>

VIII. Progress Toward Degree

A student will be certified as making satisfactory progress toward the B.A. degree in Physics by satisfying the university's academic eligibility requirements as well as the following requirements:

- Upon having attempted 60 credit hours, the student will have completed the CLE Area 1 requirement (in section I), the Mathematics requirement (section IV) as well as PHYS 2305-2306, PHYS 2325-2326, PHYS 2504, and PHYS 3324.
- Upon having attempted 45 credit hours, the student must have 2.0 overall and in-major GPAs.
- Upon having attempted 72 credit hours, the student will have completed the foreign language requirement by the close of the academic year (spring semester). [College of Science requirement]
- Upon having attempted 96 credit hours, the student will have completed all credits for the Curriculum for Liberal Education. [College of Science requirement]

IX. Minimum hours and GPA required for graduation

A minimum of 120 credit hours must be completed for graduation. A minimum overall and in-major GPA of 2.0 is required for graduation. All physics courses attempted are used in the calculation of the in-major GPA.

X. Prerequisites and/or Corequisites

There are prerequisites not shown on this checksheet. Please see the Course Catalog or your advisor.