USF UNIVERSITY OF SOUTH FLORIDA
COLLEGE OF ARTS & SCIENCES

Major Fact Sheet

Physics, BA

What will I be studying?

Physics is vital to understanding the world around us, the world inside us, and the world beyond us. The BA program consists of the traditional general physics core, a variety of upper-level courses and applied electives, and laboratory courses. It allows more flexibility for students who want to take coursework for a second major or graduate/professional schools outside of physics.

Career Ideas!

Research and Technical

Operate laboratory tools and equipment; process data for experiments, analyze experiment results, record observations, and create reports for further examination.

Engineering Connected

Use math and science to solve different technical problems; develop new products for companies or individuals.

Educator/Teacher (Secondary)

Teach courses pertaining to the laws of matter and energy; includes teachers primarily engaged in teaching.

Explore more career services at USF!

Contact Us

Science Center (SCA) 203

PhysicsAdvise@usf.edu

Get Involved!

Society of Physics Students at USF

Astronomy Club at USF

Sigma Pi Sigma

American Physical Society

The American Institute of Physics

Department of Physics
Physics, BA

Example Four Year Plan

Year 1		
Fall	Spring	Summer
CHM 2045: Chemistry 1**	CHM 2046: Chemistry 2	Non-Major Elective
CHM 2045L: Chemistry 1 Lab **	CHM 2046L: Chemistry 2 Lab	
ENC 1101: Composition 1	MAC 2311: Calculus 1**	
Core Humanities	ENC 1102: Composition 2	
Core Social Science Course	Enhanced Gen-Ed: Human/Cultural Diversity	
Total Hours: 13	Total Hours: 14	Total Hours: 3
Year 2		
Fall	Spring	Summer
MAC 2312: Calculus II	MAC 2313: Calculus III	Non-Major Elective
PHY 2048: Calc-Based Physics I	PHY 2049: Calc-Based Physics II	
PHY 2048L: Calc-Based Physics I Lab	PHY 2049L: Calc-Based Physics II Lab	
Foreign Language I	Foreign Language II	
Non-Major Elective	Non-Major Elective	
Total Hours: 15	Total Hours: 15	Total Hours: 3
Year 3		
Fall	Spring	Summer
PHY 3101: Modern Physics	PHY 3220: Classical Mechanics	Upper-Level Non-Major Elective
PHZ 3113: Math Methods	PHY 3323: Electricity & Magnetism I	
Enhanced Gen-Ed: Creative Thinking	Enhanced Gen-Ed: Info & Data Literacy	
Upper-Level Non-Major Elective	Upper-Level Non-Major Elective	
Non-Major Elective	Upper-Level Non-Major Elective	
Total Hours: 15	Total Hours: 15	Total Hours: 3
Year 4		
Fall	Spring	Total Credits to Graduation
PHY 4604: Intro to Quantum Mechanics	PHY 4823L: Advanced Lab	**Major Requirements:** 53 credit hours
PHY 3822L: Intermediate Lab	PHY 4930: Physics Seminar	
Enhanced Gen-Ed: Ethical Reasoning & Civic Engagement	Upper-Level Physics Major Elective	**General Education Requirements:** 27 credit hours
Upper-Level Non-Major Elective	Enhanced Gen-Ed: High Impact Practice	
	Upper-Level Non-Major Elective	**Other Degree Requirements:** 40 credit hours
Total Hours: 12	Total Hours: 13	Total= 120

**May require completion of additional math pre-requisites (consider the MPT or CPT exams)