



Degree Plan: Physics- Bachelor of Science

[AR-BS-PHYS-1]

School of Arts and Sciences

Department of Chemistry, Physics, and Engineering

Catalog Year: 2018-2019

General Education Requirements - 44 -46 hours

Communication - 9 hours	American History - 3 hours	Behavioral Science - 3 hours
ENGL 1113; ENGL 1213; COMM 1113	HIST 1483 or 1493	FAMS 1123, PSY 1113, SOCI 1113, HON 2133
Mathematics - 5 hours	Political Science - 3 hours	Economics - 3 hours
MATH 2215	PS 1113	AGRC 2013, ECON 2013, GEOG 3023, CRM 3603
Science* - 9 hours	Humanities - 6 hours	Health and Wellness* - 4 hours
Biological Science (4 hours) Physical Science: CHEM 1361/1364 *One course must be a lab science; see undergraduate catalog for list.	Diversity (3 hours) Aesthetics (3 hours) *One course must be taken from each category; see undergraduate catalog for list.	HLTH 1012, 1053, 1063, any course from the following: PE 1--1, 2--1, 2--2 *Requirement waived for some students; see undergraduate catalog for list.

General Education Non-PE Electives (To total at least 44 hours, if needed)*.

General Education Electives must be selected from the list of approved Gen Ed courses, exclusive of those with the PE prefix. For a full list of General Education courses, see: http://www.cameron.edu/catalog/general_ed.html

University Requirements

UNIV 1001 or 1113 - 1-3 hours	Computer Literacy - PHYS 3011	Capstone Experience - PHYS 4541
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Major Requirements - 40 hours

Required Courses -28 hours	Course Options - 4-5 hours	Other Electives - 7-8 hours
PHYS 1115/L (FA) OR PHYS 2015/L (SP) PHYS 1215/L (SP) OR PHYS 2025/L (FA) PHYS 2541 Intro to Physics Literature (FA) PHYS 3003 Modern Physics I (SP) PHYS 3011 Modern Physics I Lab (SP) PHYS 3043 Intro Quantum Mech (Even SP) PHYS 3303 Classical Mechanics (Even FA) PHYS 3403 Thermal Physics (Odd FA) PHYS 4113 Electricity/Magnetism (Odd SP) PHYS 4541 Physic Capstone (SP)	Option A: Electronics (5 hours) PHYS 3031 Electric Meas/Electron Lab PHYS 3024 Electric Meas/Electronics Option B: Optics (4 hours) PHYS 4401 Optics Lab PHYS 4403 Light & Optics	CHEM 4353 Physical Chemistry I CHEM 4363 Physical Chemistry II PHYS 3033 Modern Physics II PHYS 4452 Advanced Laboratory PHYS 4481-3 Advanced Topics in Physics PHYS 4491-3 Special Problems

NOTE: Students must maintain an overall 2.0 GPA for all Major courses.

Additional Requirements - 21 hours

CHEM 1471/1474 General Chemistry II and Lab
CS 1314 Computer Science I (or similar)
MATH 2235 Calculus & Analytic Geometry II
MATH 2244 Calculus & Analytic Geometry III
MATH 3253 Differential Equations

Depending upon high school background some students may also need: MATH 0013, MATH 0103, MATH 0213 and/or MATH 0115, MATH 1513, MATH 1613 as prerequisites. Some of these courses may be used to satisfy General Education requirements.

Minor Requirements - 18 hours

For a full list of available minors, see: <http://www.cameron.edu/catalog/minors.html>

General Electives - to Complete 124 hours

Graduation Requirements

Department Requirements	Minimum ½ of Major Upper Division Hours Completed at CU
Minimum 124 Total Credit Hours	15 of last 30 Credit Hours or ½ of Major Completed at CU
Minimum 40 Upper Division Credit Hours	Retention GPA 2.0
Minimum 55 Liberal Arts & Science Credit Hours	Cameron GPA 2.0
Minimum 30 Credit Hours in Residence at Cameron	Complete Graduation Application at Registrar's Office
Minimum 60 Credit Hours at a 4-Year Institution	