



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 Sci: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 - CHEM 1361	Capstone Experience - CHEM 4541
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Major Requirements - 75-85 hours

Required Core Courses -25 hours	Concentration or Options - 40-50 hours
*Students must maintain an overall 2.0 GPA for all Major courses. CHEM 1361/1364 General Chemistry Lab I (FA, SP) CHEM 1471/1474 General Chemistry Lab II (FA, SP) CHEM 2541 Introduction to Chemical Literature (FA) CHEM 3113 Fund of Analytical Chemistry (FA, Odd SP) CHEM 3232 Quantitative Analysis Lab (FA, Odd SP) CHEM 3314 Organic Chemistry I (FA, SP) CHEM 3324 Organic Chemistry II (FA, SP) CHEM 4541 Chemistry Capstone (SP)	Majors must select from the following options: American Chem Society Certified Chemistry Degree Option Chemistry Degree Option (non-ACS Certified) (must select minor) Health Profession Chemistry Degree Option (See next page for course list)

Additional Requirements - 10 hours

PHYS 1115 Physics I **OR** 2015 Physics I for Sci & Engineering Majors (preferred);
PHYS 1215 Physics II **OR** PHYS 2025 Physics II for Sci & Engineering Majors (preferred)

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 124 Total Credit Hours Minimum 40 Upper Division Credit Hours Minimum 55 Liberal Arts & Science Credit Hours Minimum 30 Credit Hours in Residence at Cameron Minimum 60 Credit Hours at a 4-Year Institution	Minimum ½ of Major Upper Division Hours Completed at CU 15 of last 30 Credit Hours or ½ of Major Completed at CU Retention GPA 2.0 Cameron GPA 2.0 Complete Graduation Application at Registrar's Office
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Concentration or Option - 40-50 hours

American Chem Society Certified Chemistry Degree Option

Required Courses (37 hours)

CHEM 4025 Instrumental Methods of Analysis
CHEM 4334 Advanced Inorganic Chemistry
CHEM 4351 Physical Chemistry I Lab
CHEM 4353 Physical Chemistry I
CHEM 4361 Physical Chemistry II Lab II
CHEM 4363 Physical Chemistry II
CHEM 4403 Biochemistry I
CHEM 4413 Biochemistry II
CHEM 4491-3 Special Problems in Chemistry**
MATH 2235 Calculus & Analytic Geometry II
MATH 2244 Calculus & Analytic Geometry III
MATH 3253 Differential Equations
MATH 4433 Matrix Algebra (preferred) **OR**
MATH 2613 Foundations of Mathematics

**Only three hours of CHEM 4491-3 may be counted toward completion of the required fifty hours for chemistry degree. Must take a minimum of two credit hours of Special Problems in Research.

Electives (0-2 hours)

CHEM 2441 Working Safely with Chemicals
CHEM 3334 Chemistry of Water & Wastewater
CHEM 3343 Organic Analysis
CHEM 4332 Adv Inorganic Chemistry Lab
CHEM 4401 Biochemistry I Lab
CHEM 4411 Biochemistry II Lab
CHEM 4481-3 Adv Topics in Chemistry

Chemistry Degree Option (non-ACS Certified)

(must select minor)

Required Courses (8 hours)

Choose one concentration:

1. Physical Chemistry:

CHEM 4351 Physical Chemistry I Lab
CHEM 4353 Physical Chemistry I
CHEM 4361 Physical Chemistry II Lab
CHEM 4363 Physical Chemistry II

2. Biochemistry

CHEM 4401 Biochemistry I Lab
CHEM 4403 Biochemistry I
CHEM 4411 Biochemistry II Lab
CHEM 4413 Biochemistry II

Required Upper Division Analytical Elective (3-5 hours)

CHEM 3334 Chemistry of Water & Wastewater **OR**
CHEM 3343 Organic Analysis **OR**
CHEM 4025 Instrumental Methods of Analysis

Electives (2-4 hours)

CHEM 2441 Working Safely with Chemicals
CHEM 3334 Chemistry of Water & Wastewater
CHEM 3343 Organic Analysis
CHEM 4025 Instrumental Methods of Analysis
CHEM 4332 Adv Inorganic Chemistry Lab
CHEM 4334 Advanced Inorganic Chemistry
CHEM 4481-3 Adv Topics in Chemistry
CHEM 4491-3 Special Problems in Chemistry **

**Only three hours of CHEM 4491-3 may be counted toward completion of the required forty hours for chemistry degree.

MINOR (18 hours)

Health Profession Chemistry Degree Option

Required Courses (23 hours)

CHEM 4401 Biochemistry I Lab
CHEM 4403 Biochemistry I
CHEM 4411 Biochemistry II Lab
CHEM 4413 Biochemistry II
BIOL 1364 Principles of Biology I
BIOL 1474 Principles of Biology II
BIOL 2124 Microbiology
CIS 1013 Intro to Computer Information Systems

Guided Electives (17 hours)

1. Must select at least one lower division course from following:

AGRC 1124 Intro to Animal Science **OR**
BIOL 2034 Human Anatomy **OR**
BIOL 2134 Human Physiology **OR**
BIOL 2154 Zoology

2. Substitutions can be made for other professional health programs.

ANIM 3653 Applied Nutrition
BIOL 3014 Principles of Genetics
BIOL 3093 Immunology
BIOL 3174 Molecular Cell Biology
BIOL 4004 Physiology
CHEM 3334 Chemistry of Water & Wastewater
CHEM 3343 Organic Analysis
CHEM 4025 Instrumental Methods of Analysis
CHEM 4332 Adv Inorganic Chemistry Lab
CHEM 4334 Advanced Inorganic Chemistry
CHEM 4351 Physical Chemistry Lab I
CHEM 4353 Physical Chemistry I
CHEM 4361 Physical Chemistry Lab II
CHEM 4363 Physical Chemistry II
CHEM 4481-3 Adv Topics in Chemistry
CHEM 4491-3 Special Problems in Chemistry **
STAT 2013 Intro Probability & Statistics I

**Only three hours of CHEM 4491-3 may be counted toward completion of the elective hours for this option.