

CHEMISTRY MAJOR: BIOCHEMICAL CONCENTRATION (BS PROGRAM)

Declaration of Major | 2012-2013 Catalogue



EDGEWOOD COLLEGE

Name: _____ ID: _____

Major Advisor Approval: _____ Date: _____

Department Chair Approval: _____ Date: _____

Intended Graduation Month: January August May Intended Graduation Year: _____

Requirements for the major:

Core courses (23 credits)

CHEM 120 S General Chemistry I

CHEM 121 S General Chemistry II

CHEM 321 Organic Chemistry I

CHEM 323 Organic Chemistry II

CHEM 351 U Analytical Chemistry

CHEM 371 Inorganic Chemistry I

CHEM 480 K Chemistry Seminar

Transfer credit applied (including AP/CLEP/etc):

Course/Institution:

Biochemical Concentration

This concentration is designed to prepare students for careers in health fields (such as medicine, dentistry, pharmacy, and physical therapy), industry, business, or law; or graduate school in biochemistry or molecular biology. Careful consultation with an advisor is recommended.

A minimum of 30 credits in chemistry including the core courses listed above, plus:

One additional required course:

CHEM 340 Biochemistry

Four credits from the following:

CHEM 360 Quantum Mechanics

CHEM 361 Physical Chemistry

CHEM 370 Integrated Laboratory

CHEM 431 X Advanced Organic Chemistry

CHEM 471 Inorganic Chemistry II

CHEM 489 Undergraduate Research

Ten credits from the following:

PHYS 130 S General Physics I

PHYS 131 S General Physics II

PHYS 201 S College Physics I

PHYS 202 S College Physics II

BIO 151 ESU General Biology I

BIO 152 S General Biology II

BIO 208 Nutrition

BIO 210 Anatomy and Physiology I

BIO 211 Anatomy and Physiology II

BIO 220 V Biomechanics

BIO 312 S Microbiology

BIO 351 Organismal Botany

BIO 352 Organismal Zoology

BIO 401 Genetics

BIO 402 Cell & Molecular Biology

BIO 410 Pathology

BIO 415 Exercise Physiology

BIO 425 Animal Physiology

One mathematics course from among:

MATH 114A M Precalculus A: Accelerated College Algebra

MATH 231 M Calculus I or a higher level course

Policies for the Chemistry Major

Transfer students must take a minimum of 12 chemistry credits at Edgewood College for a major and a minimum of 8 chemistry credits for a minor. All transfer courses must be approved by the department.

In order to fulfill the Chemistry Major, a student must attain a cumulative grade point average of 2.0 in chemistry courses taken at Edgewood College. If a course is retaken only the most recent grade is taken into consideration in calculating the cumulative grade point average. Any course in which a student receives a grade below "CD" will not be accepted toward the major or minor.

Please consult with your academic advisor to learn the details about how you can satisfy your COR 3 requirement.