

# CHEMISTRY MAJOR: (BS PROGRAM)

## PRE-ENGINEERING CONCENTRATION



EDGEWOOD COLLEGE

2015-2016 Catalog  
Declaration of Major

Name: \_\_\_\_\_

ID: \_\_\_\_\_

Major Advisor Approval: \_\_\_\_\_

Date: \_\_\_\_\_

Department Chair Approval: \_\_\_\_\_

Date: \_\_\_\_\_

Intended Graduation Month: January August May Intended Graduation Year: \_\_\_\_\_

THIS FORM IS TO ADD/DECLARE A MAJOR. IF YOU WISH TO DROP/REMOVE A PREVIOUSLY DECLARED MAJOR, YOU MUST SUBMIT A SEPARATE MAJOR DECLARATION DROP FORM. THIS FORM IS AVAILABLE AT REGISTRAR.EDGEWOOD.EDU

### Major Requirements:

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

Core courses for the major:

Course / Institution

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*


### Pre-Engineering Concentration

This concentration is designed to prepare students for careers in engineering fields.

Six credits of Chemistry chosen from the following:

CHEM 340		Biochemistry*
CHEM 360		Quantum Mechanics*
CHEM 361		Physical Chemistry*
CHEM 400	3	Ethics and Responsibilities in Scientific Research
CHEM 420		Advanced Biochemistry*
CHEM 431	X	Advanced Organic Chemistry*
CHEM 471		Inorganic Chemistry II*
CHEM 489		Undergraduate Research (2 credit maximum)*


The following Mathematics courses:

MATH 231	M	Calculus I*
MATH 232	M	Calculus II*


MATH 233	M	Calculus III*
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Three semesters of Physics to include:

PHYS 201	SU	College Physics I*
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PHYS 202	S	College Physics II*
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PHYS 350	I	Scientific Computing*
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*\*course has prerequisites*

**Policies:**

A student must maintain a cumulative grade point average of at least 2.0 in all courses taken to fulfill the major and concentration requirements.

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.

Transfer students must take a minimum of 12 chemistry credits at Edgewood College.

All transfer courses must be approved by the department.

Students should consult with their academic advisor to learn the details of how to satisfy the COR 3 requirement.