

CHEMISTRY MAJOR: (BS PROGRAM)

PRE-ENGINEERING CONCENTRATION



EDGEWOOD COLLEGE

2016-2017 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*	

Pre-Engineering Concentration

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

Courses required for the Concentration

CHEM 480	K	Chemistry Seminar*	
CHEM 400	3	Ethics and Responsibilities in Scientific Research	

Six credits of Chemistry chosen from the following:

CHEM 340		Biochemistry*	
CHEM 360		Relativity & Quantum Mechanics*	
CHEM 361		Thermodynamics and Kinetics*	
CHEM 420		Advanced Biochemistry*	
CHEM 431	X	Advanced Organic Chemistry*	
CHEM 471		Inorganic Chemistry II	
CHEM 489		Undergraduate Research	

The following Mathematics courses:

MATH 231	M	Calculus I*	
MATH 232	M	Calculus II*	
MATH 233	M	Calculus III*	

Three semesters of Physics to include:

PHYS 201	SU	College Physics I*	
PHYS 202	S	College Physics II*	
PHYS 350	I	Scientific Computing*	

**course has prerequisites*

Recommended Elective:

CHEM 361		Thermodynamics & Kinetics*	
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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.