

CHEMISTRY MAJOR: PRE-ENGINEERING CONCENTRATION (BS PROGRAM)

Declaration of Major | 2014-2015 Catalog



EDGEWOOD COLLEGE

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):

Required core courses (23 credits):

Course/Institution:

<input type="checkbox"/>	CHEM 120	S	General Chemistry I
<input type="checkbox"/>	CHEM 121	S	General Chemistry II
<input type="checkbox"/>	CHEM 321		Organic Chemistry I
<input type="checkbox"/>	CHEM 323		Organic Chemistry II
<input type="checkbox"/>	CHEM 351	U	Analytical Chemistry
<input type="checkbox"/>	CHEM 371		Inorganic Chemistry I
<input type="checkbox"/>	CHEM 480	K	Chemistry Seminar

This concentration is designed to prepare students for the Pre-Engineering Dual Degree Program or for graduate school in engineering fields. Students may choose the dual degree option under the existing collaborative programs with the Colleges of Engineering at UW-Madison and Marquette University. Under this option, in addition to receiving a Bachelor's degree in Engineering from one of these institutions, a student will receive a B.S. in Chemistry from Edgewood College, subject to the completion of the degree requirements stipulated by the College.

An additional 6 credits in chemistry that may be chosen from the following:

<input type="checkbox"/>	CHEM 340		Biochemistry
<input type="checkbox"/>	CHEM 360		Quantum Mechanics
<input type="checkbox"/>	CHEM 361		Physical Chemistry
<input type="checkbox"/>	CHEM 400		Ethics and Responsibility in Scientific Research
<input type="checkbox"/>	CHEM 420		Advanced Biochemistry
<input type="checkbox"/>	CHEM 431	X	Advanced Organic Chemistry
<input type="checkbox"/>	CHEM 471		Inorganic Chemistry II
<input type="checkbox"/>	CHEM 489		Undergraduate Research

The following mathematics courses:

<input type="checkbox"/>	MATH 231	M	Calculus I
<input type="checkbox"/>	MATH 232	M	Calculus II
<input type="checkbox"/>	MATH 233	M	Calculus III

Three semesters of physics to include:

<input type="checkbox"/>	PHYS 201	SU	College Physics I	
<input type="checkbox"/>	PHYS 202	S	College Physics II	
<input type="checkbox"/>	PHYS 350	I	Scientific Computing	

Policies:

At least 12 Chemistry credits towards the major must be taken at Edgewood College. All transfer courses must be approved by the department.

2.0 cumulative GPA or better in Chemistry courses.

CD or better in required courses. If a course is retaken only the most recent grade is taken into consideration in calculating the cumulative grade point average.

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

Under the agreements with the Colleges of Engineering at the UW-Madison and Marquette University, students who complete the Edgewood College pre-engineering concentration with a minimum GPA of 3.0; have a 3.0 GPA in mathematics, chemistry, physics, and computer sciences courses; have the General Education courses equivalent to the liberal arts electives required by the specific degree-granting department of the student's choice in the College of Engineering; and have a positive recommendation from the Edgewood College physical sciences or mathematics faculty, will be guaranteed entrance into the College of Engineering.

Course credits earned by students upon completion of their engineering program at UW-Madison or Marquette University may be transferred to Edgewood College to complete the B.S. in Chemistry.