

CHEMISTRY MAJOR: BIOCHEMICAL CONCENTRATION

(BS PROGRAM)



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

Biochemical Concentration: This concentration is designed to prepare students for careers in health fields (such as medicine, dentistry, pharmacy, and physical therapy), industry, business, and law; and/or graduate school in biochemistry or molecular biology. Careful consultation with an advisor is recommended. Students should consult with advisors on how to satisfy the COR 3 requirement.

A minimum of 30 credits in chemistry including:

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*

One additional course:

CHEM 340		Biochemistry*
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Four credits from the following:

CHEM 200	2E	Green and Sustainable Chemistry*
CHEM 360	X	Relativity & Quantum Mechanics*
CHEM 361		Physical Chemistry*
CHEM 370		Integrated Laboratory*
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)*	

One of the following Biology sequences:

BIO 151	ESU	General Biology: Cell Biology and Ecology*	
		OR	
BIO 181	ESU	Honors General Biology: Cell Biology and Ecology*	
BIO 152	S	General Biology: Genetics and Evolution*	
		OR	
BIO 182	S	Honors General Biology: Information Flow in Living Systems*	

Students will also need to complete two additional credits in biology or physics.

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One of the following Mathematics courses:

MATH 114B		Precalculus B: Trigonometry	
MATH 231	M	Calculus I (or a higher level Mathematics course)*	

**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.