

CHEMISTRY MAJOR: BIOCHEMICAL CONCENTRATION

(BS PROGRAM)



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

Biochemical Concentration: This concentration is designed to prepare students for careers in health fields (such as medicine, dentistry, pharmacy, physician assistant and physical therapy), industry, business, 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 plus:

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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*

Two additional Biochemistry courses:

CHEM 340		Biochemistry*
CHEM 420		Advanced Biochemistry*

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One of the following Physics sequences:

PHYS 201	SU	College Physics I *
PHYS 202	S	College Physics II *
MATH 231	M	Calculus I *
		OR
PHYS 130	S	General Physics I *

PHYS 131	S	General Physics II *	
MATH 114B		Pre-Calculus B: Trigonometry *	
		OR	
MATH 231	M	Calculus I *	

One of the following Biology sequences:

BIO 151	ESU	General Biology I*	
		OR	
BIO 181	ESU	Honors General Biology I*	
BIO 152	S	General Biology II*	
		OR	
BIO 182	S	Honors General Biology II*	

Two additional credits in Chemistry

CHEM 480	K	Chemistry Seminar *	
		Chemistry Elective	

10 additional credits of Biology or Chemistry from 300-400 level courses.

If double-majoring in Biology:

BIO 480	3K	Biology Seminar *	
		Chemistry Elective	

8 credits of Biology or Chemistry from 300-400 level courses.

Recommended Electives:

BIO 401		Genetics *	
BIO 402		Cell and molecular biology *	

Students planning on Graduate School:

CHEM 361		Thermodynamics & Kinetics *	
Math 262		Calculus II *	

**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.