

CHEMISTRY MAJOR:

(BS PROGRAM)

BIOCHEMISTRY CONCENTRATION

2017-2018 Catalog

Information Sheet



EDGEWOOD COLLEGE

This Information Sheet is for advising purposes only. Do not submit this form as a Major/Minor Declaration Form; a separate form is required to declare your major/minor.

Biochemistry 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:

Core courses for the major:

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*

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: Ecology, Genetics and Evolution*
		OR
BIO 181	ESU	Honors Gen Bio: Ecology, Genetics and Evolution*
BIO 152	S	General Biology: Cells and Molecules*
		OR
BIO 182	S	Honors General Biology: Cells and Molecules*

Two additional credits in Chemistry

CHEM 480	K	Chemistry Seminar *
		Chemistry Elective

Any 10 credits of Biology or Chemistry from 300 or above with a BIO or CHEM prefix or PHYS 360 or PHYS 361.

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 232	M	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. Any natural science or mathematics 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 natural science credits that have either a BIO, CHEM, GEOS, NATS or PHYS prefix at Edgewood College. Students should consult with their academic advisor to learn the details of how to satisfy the COR 3 requirement.

Students must choose from either the Professional, Biochemistry, Pre-Engineering, Renewable Energy or Liberal Arts Concentrations.