

# CHEMISTRY TEACHING MAJOR (BS PROGRAM)



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.*

This major is designed for individuals who wish to be certified to teach chemistry at the secondary level (WDPI category, Early Adolescence through Adolescence, Ages 10-21; WDPI licenses 610 and 637). The major requires completion of the requirements listed below the Education Professional Requirements and the licensing requirements for teacher education (see EDUCATION).

Chemistry Teaching majors seeking Wisconsin certification will be required to pass PRAXIS Exam 10435 to be eligible for certification. It is recommended that Chemistry majors complete the Natural Science Teaching Minor to build their understanding of biology and geoscience as defined in the "WDPI Content Guidelines for Physical Science Including Chemistry" and prepare for the content exam.

## Major Requirements:

Thirty-two (32) Chemistry credits to include 24 required Chemistry credits:

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*
CHEM 489		Undergraduate Research*

An additional 8 credits from:

CHEM 340		Biochemistry*
CHEM 360	X	Relativity & Quantum Mechanics*
CHEM 361		Thermodynamics & Kinetics*
CHEM 370		Integrated Laboratory*
CHEM 420		Advanced Biochemistry*
CHEM 431	X	Advanced Organic Chemistry*
CHEM 471		Inorganic Chemistry II*

One of the following Physics sequences:

PHYS 130	S	General Physics I*
		AND
PHYS 131	S	General Physics II*
PHYS 201	SU	College Physics I*
		AND
PHYS 202	S	College Physics II*

One semester of Biology to be chosen from:

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*

One semester of Earth Science to be chosen from:

GEOS 102	S	Introduction to Earth Science*
GEOS 103	S	Oceans and Atmosphere*

One additional course in Environmental Science:

ENVS/BIO 250	EV	Introduction to Environmental Science
ENVS 216/ GEOS 206	EV	Environmental Geology

The following Mathematics course:

MATH 114B		Precalculus B: Trigonometry*
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If taking College Physics, students will also need to complete:

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

One additional course in Natural Science:

NATS 250	PV	History and Philosophy of Science*
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*\*course has prerequisites*

One semester of methods of teaching science and accompanying practicum:

NATS 459		Teaching Science in Middle/Secondary Schools
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*Students must be fully admitted to the teacher education program and have completed their science coursework before enrolling in NATS 459.*

Students will also complete the WDPI content exam, PRAXIS Exam 10435, with a passing score.

**Policies:**

A student must maintain a cumulative grade point average of at least 2.0 in all courses taken to fulfill the major requirements. 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 advisor to learn the details of how to satisfy your COR 3 requirement which usually comes from Education courses.