

EXAMPLE FOUR-YEAR PLAN

CHEMISTRY | 120 CREDITS

MAJOR

CORE

ELECTIVES

FRESHMAN YEAR

FALL Courses		SPRING Courses	
SYM 110 Leadership for Social Justice	3	Philosophy	3
ENG 110 or 120 (depending on placement)	3	ENG 120 College Research Writing	3
MAT 111 College Level Math	4	SEA 101 Search for Meaning	4
CHE 113 General Chemistry I	4	CHE 114 General Chemistry II	4
BIO 100 Intro to Cell and Molecular Biology	4	BIO 102 Introduction to Ecology	4
TOTAL	18 credits	TOTAL	18 credits

SOPHOMORE YEAR

FALL Courses		SPRING Courses	
World Languages	3	History	3
Elective Course	3	MAT 216 Elementary Statistics	4
CHE 222 Instrumental Quantitative Analysis	4	PHY 202 General Physics II	4
PHY 201 General Physics	4	Biology 200 Level	4
TOTAL	14 credits	TOTAL	15 credits

JUNIOR YEAR

FALL Courses		SPRING Courses	
PSY 310 Behavioral Science	3	Humanistics Course	3
Literature	3	Fine Arts	3
CHE 333 Organic Chemistry I	4	CHE 334 Organic Chemistry II	4
CHE 435 Inorganic Chemistry	3	Elective Course	4
Oral Communications	2		
TOTAL	15 credits	TOTAL	14 credits

SENIOR YEAR

FALL Courses		SPRING Courses	
Literature/Fine Arts option	3	Elective Course	3
CHE 443 Physical Chemistry Fundamentals	4	Chemistry Seminar	1
Chemistry Seminar	1	CHE 352 Biochemistry	4
Biology 200 Level	4	Theology	3
Elective Course	3	Elective Course	3
TOTAL	15 credits	TOTAL	14 credits

UPDATED FEB. 2020

This example four-year plan is intended to outline the number and types of courses a student might take in order to fulfill the degree, major, core and elective requirements to graduate. Students meet with their academic advisor each semester to review progress toward fulfilling their degree requirements.



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CHEMISTRY

SCHOOL OF NATURAL & HEALTH SCIENCES AND EDUCATION



Mount Mary University's Bachelor of Science degree in chemistry prepares students for entry-level employment or graduate studies in the life sciences.

The program combines a broad background in chemistry with a solid foundation in the liberal arts. Program graduates are well-prepared for entry into graduate chemistry programs and professional schools (medical, dental, osteopathic medicine, optometry and veterinary science).

The chemistry program emphasizes data analysis and problem solving, along with broad scientific literacy, basic chemistry laboratory techniques and relevant computer applications. The program offers courses in the five main branches of chemistry: inorganic, organic, analytical, biochemical and physical.

One Major, Two Options

A chemistry degree from Mount Mary University offers a broad choice of career paths. Two distinct course sequences help direct students toward their future career goals. Each sequence has recommended courses designed to meet a student's individual career aspirations.

GENERAL SEQUENCE

Prepares students for entry-level positions after graduation, graduate school or professional school.

EDUCATION SEQUENCE

To become a chemistry teacher, students must complete requirements for both the chemistry and education majors. Upon completion of the program, graduates will be eligible to teach chemistry or broad-field science in grades 6 to 12. A student teaching experience is required.

Entrance Exams for Post-Graduate Study

Through rigorous coursework, hands-on learning opportunities and test preparation, Mount Mary chemistry graduates are well prepared for the following pre-professional exams:

- **MEDICAL SCHOOL (FOR BOTH MD AND DO PROGRAMS):** Medical College Admission Test (MCAT)
- **DENTAL SCHOOL:** Dental Admission Test (DAT)
- **VETERINARY SCHOOL:** Graduate Record Exam (GRE) or another exam designated by the school of choice

CAREER OPPORTUNITIES

Chemistry graduates can pursue careers as chemists, scientists, researchers and more at pharmaceutical, biotechnology, materials development and manufacturing companies. Graduates in the health sciences sequence will be prepared to attend medical, dental, veterinary or other professional schools. According to the U.S. Bureau of Labor Statistics, job growth is expected in the chemistry industries. Graduates with a master's degree or Ph.D. will enjoy the best opportunities.

SCHOLARSHIP ASSISTANCE

Did you know? 100% of incoming, full-time undergraduate students receive an academic scholarship or reduced tuition. In addition, chemistry majors are eligible for the Anthony S. Woo Chemistry Achievement Award. This scholarship honors the father of two Mount Mary chemistry alumnae. The scholarship is awarded to a student who demonstrates outstanding achievement in the field of chemistry. Details about this scholarship are available by contacting the sciences department chair.

LEARN MORE ONLINE

Learn more about the School of Natural and Health Sciences at Mount Mary University at: mtmary.edu/academics

