

EXAMPLE FOUR-YEAR PLAN

CHEMISTRY | 120 CREDITS

Pre-Professional Health Science Programs

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 (if needed)	3
MAT 111 College Algebra	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
Oral Communications	2	MAT 216 Elementary Statistics	4
Elective Course	3	PHY 202 General Physics II	4
CHE 222 Instrumental Quantitative	4	Biology 200 Level	4
PHY 201 General Physics	4		
TOTAL	16 credits	TOTAL	15 credits

JUNIOR YEAR

FALL Courses		SPRING Courses	
Sociology or Psychology	3	Humanistics Course	3
Literature	3	Fine Arts	3
CHE 333 Organic Chemistry I	4	Organic Chemistry II	4
CHE 435 Inorganic Chemistry	3	Elective Course	4
Elective Course	3		
TOTAL	16 credits	TOTAL	14 credits

SENIOR YEAR

FALL Courses		SPRING Courses	
Literature/Fine Arts option	3	Elective Course	3
CHE 443 Physical Chemistry Fundamentals	4	CHE 493 Chemistry Seminar	1
CHE 493 Chemistry Seminar	1	CHE 352 Biochemistry	4
Biology 200 Level	4	Theology	3
		Elective Course	3
TOTAL	12 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 & EDUCATION



PRE-PROFESSIONAL HEALTH SCIENCE PROGRAMS

Mount Mary University's Bachelor of Science degree in chemistry prepares students for graduate studies in the following areas:

- **Pre-Dentistry**
- **Pre-Medicine**
- **Pre-Optometry**
- **Pre-Osteopathic Medicine**
- **Pre-Pharmacy**
- **Pre-Veterinary Medicine**
- **Pre-Physical Therapy**
- **Pre-Physician Assistant**

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.

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

