EXAMPLE FOUR-YEAR PLAN

BIOLOGY | 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	BIO 325 Microbiology	4
Oral Communications	2	CHE 114 General Physics II	4
Elective Course	3	Biology 200 Level	3
BIO 218 Biodiversity	4	MAT 216 Elementary Statistics	4
PHY 201 General Physics I	4		
TOTAL	16 credits	TOTAL	15 credits

JUNIOR YEAR			
FALL Courses		**SPRING Courses**	
SOC 101 Sociology or PSY 103 Psychology	3	Humanistics Course	3
Literature	3	Fine Arts	3
CHE 333 Organic Chemistry I	4	CHE 334 Organic Chemistry II	4
PRM 511 Genetics	4	BIO 356 Developmental Biology	4
		Biology 400 level	4
TOTAL	14 credits	TOTAL	18 credits

SENIOR YEAR			
FALL Courses		**SPRING Courses**	
Literature/Fine Arts option	3	Elective Course	3
Biology 400 level	4	BIO 494 Biology Seminar	1
BIO 493 Biology Seminar	1	CHE 352 Biochemistry	4
Theology	3	History	3
Elective Course	3	Elective Course	3
TOTAL	14 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.

Mount Mary UNIVERSITY

Sponsored by the School Sisters of Notre Dame

MOUNT MARY UNIVERSITY

BIOLOGY

SCHOOL OF NATURAL & HEALTH SCIENCES AND EDUCATION

PRE-PROFESSIONAL HEALTH SCIENCE PROGRAMS

Mount Mary University's Bachelor of Science degree in biology 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**

Through rigorous courses, hands-on learning and test preparation, this sequence prepares students for graduate study in dentistry, medicine, optometry, osteopathic medicine or veterinary science. Graduates are well prepared to take the Medical College Admission Test (MCAT), Dental Admission Test (DAT) and Graduate Record Exam (GRE).

Student Centered Learning

Student-centered active learning strategies help students make real-world connections and master scientific content. These methods also allow students to practice their oral and written communication skills. Learning strategies include:

CASE STUDIES: By studying real-life scenarios relevant to course content, students can understand how to apply concepts they learn in class to real-world situations. Case studies also allow discussion of ethical issues.

GUIDED INQUIRY EXERCISES: Students study and answer a series of questions that build upon one another to understand complex problems and explore controversial issues.

UNDERGRADUATE RESEARCH: Upper-level courses provide students the opportunity to engage in undergraduate research. All biology majors conduct an independent research project as part of these upper-level courses, so that students do not have to enroll in an elective independent studies course to gain research experience. This experience prepares graduates for post-baccalaureate professions or to pursue a graduate degree.

STUDY ABROAD IN COSTA RICA: A field course in Costa Rica allows students to observe and investigate the ecological systems in the area. The interrelationships of humans and other species is emphasized.

CAREER OPPORTUNITIES AND INTERNSHIPS

A biology degree can lead to a career as a microbiologist, zoologist, environmental scientist, biological technician, botanist, forensic scientist, researcher and more. With advanced study, a biology degree can provide great preparation for pursuing a Ph.D. or medical degree.

Students are strongly encouraged to pursue an internship or research opportunity to enhance their learning and improve their opportunities after graduation. Mount Mary biology students have completed internships at:

- Food technology laboratories
- The Milwaukee Public Museum
- Microbiology laboratories
- Research and development laboratories
- The Milwaukee County Zoo
- Veterinary clinics

SCHOLARSHIP ASSISTANCE

Did you know? 100% of incoming, full-time undergraduate students receive an academic scholarship or reduced tuition.

In addition, the Ruth Debelack Memorial Scholarship provides financial assistance to biology students. Contact the Financial Aid Office at **mmu-finaid@mtmary.edu** for scholarship details.