MOLLOY UNIVERSITY
School of Arts & Sciences
Department of Biology, Chemistry and Earth & Environmental Science

Earth and Environmental Science: Environmental Biology B.S.
Students in the Earth and Environmental Science program are trained to fully understand the extent of Earth's environmental concerns and what we need to foster in order to reverse the trends of depleting natural resources or impacts on the quality and resiliency of Global ecosystems. In the Environmental Biology track, students focus on the study of the life sciences: biodiversity, evolution, ecology, and the impacts of global environmental change on living communities and ecosystems.

Essential Skills:

1. Inquiry and analysis
2. Critical and creative thinking
3. Written and oral communication
4. Quantitative literacy
5. Information literacy
6. Teamwork and problem solving

Honor Society: The Biology, Chemistry and Environmental Science Department at Molloy University offers eligible students membership in Chi Beta Phi Scientific Honor Society affiliated with The American Association for the Advancement of Science (AAAS) since 1935 and includes 17 chapters in nine states.

Student Clubs: Molloy N.A.T.U.R.E. Club; Molloy E.A.R.T.H. Club

Related Student Opportunities & Centers: Center for Environmental Research and Coastal Oceans Monitoring (CERCOM); the Sustainability Institute

Employment Information:
Representative Job Titles Related to this Major Include: Ecologist, Biologist, Natural Resource Specialist, Natural Resource Manager, Environmental Scientist, Environmental Data Manager, Environmental Technician, Forester, Ranger, Environmental Consultant, Environmental Health Officer, Water Quality Scientist, Engineer, Educator, and more

Representative Employers to the Major Include: Local, state, and national governments and government agencies such as EPA, NYDEC, NYCDEP, NOAA, FDA, CDC, USGS and various parks departments. Environmental compliance and consulting firms. Non-profit and for-profit organizations. Resource extraction and sustainable management industry.

Further Resources:
See the following resources: National Association of Colleges & Employers: Career Readiness Defined, AAC&U, What Can I Do with This Major?, and Molloy Undergraduate Catalog.

FIRST YEAR			
Fall Courses		**Spring Courses**	
BIO 1260 General Biology I	4	BIO 1270 General Biology II	4
CHE 1320 Inorganic Chemistry I	4	CHE 1330 Inorganic Chemistry II	5
ENV 1010 Intro to Env Issues	3	MAT 1180* or General Education	3
FST 1000 Freshman Studies	1	ENV 1020 Found Earth Sys Sci	3
ENG 1100 English Composition	3		
Total Credits	15	Total Credits	15

SECOND YEAR			
Fall Courses		**Spring Courses**	
CHE 2000 Organic Chemistry I	4	ESC 2000-level (Oceanography/Geomorphology/ Physical Geol. / or Earth's Atm)	3
BIO 1500 Ecology	3	ENV 2570 Sci Research Techniques	2
MAT 1150A Statistics	3	BIO1510 Marine Biology	3
ENV/ESC 2000/3000 Level Elective	3	General Education Requirement x2	6
General Education Requirement	3	PED 1220 Physical Fitness	1
Total Credits	16	Total Credits	15

THIRD YEAR			
Fall Courses		**Spring Courses**	
ENV 4800 Research in ENV/ESC	3	ENV 4910 Research Thesis	2
MAT 2210 Calculus I	4	BIO 2420 Genetics	4
ENV/ESC 2000/3000 Level Elective	3	General Education Requirement	3
General Education Requirement	3	Elective	3
ENV 3300 Data Analysis ENV	3	ETH 2550 Environmental Ethics	3
Total Credits	16	Total Credits	15

FOURTH YEAR			
Fall Courses		**Spring Courses**	
ENV 4600 Internship	3	ENV 4900 Seminar	2
BIO 3520 Evolution	4	ENV/ESC 2000/3000 Level Elective	3
CORE	4	General Education Requirement x2	6
General Education Requirement	3	Elective	3
Elective	1		
Total Credits	14	Total Credits	14
		Total Credits to Graduate	120

Notice:
This 8-semester plan is not a contract, either expressed or implied, between the University and the student, but represents a flexible program of the current curriculum which may be altered periodically to carry out the academic objectives of the University. The University specifically reserves the right to change, delete or add to any 8-semester plan at any time within the student's period of study at the University.