



## Natural Sciences

### Pre-Professional Studies:

- Dental
- Medicine
- Pharmacy
- Veterinary

#### Program Overview:

*The Natural Sciences department has a strong track record of placing qualified students in graduate medical, dental, and veterinary schools.*

*Daemen's program has a 100% placement rate for graduating students being accepted into graduate school.*

Daemen's Natural Sciences Department offers majors in Biochemistry, Biology, and Natural Sciences Individualized Studies which have Pre-Professional Specializations for post-baccalaureate study in numerous science disciplines, medical, dental or veterinary schools.

Pre-med students may choose majors from all disciplines, from sciences to arts to languages, fostering pursuit of individual academic interests and qualification for medical school admission.

Rich in higher quality courses, biology and chemistry, the pre-professional majors prepare you for study in many related areas such as chemistry, biology, neurobiology, genetics, molecular biology, biochemistry, as well as medical, dental, and veterinary programs. The curriculum also provides a solid background in the liberal arts and mathematics.

#### Pre-Professional Studies at Daemen:

- Students receive individualized attention and advisement.
- Daemen's program offers students the opportunity to do hands-on research with a faculty member.
- Several students present their work at local and national conferences.
- Students have published their work in peer reviewed journals.
- There are several opportunities to participate in local community projects, international community projects, and volunteer work in clinical settings.



*did you know...*

Pre-med students who meet established requirements and are recommended by the department are also considered for admittance into a 4 year medical program in Europe under the auspices of the Hope Medical Institute (HMI).

The Institute is affiliated with two medical schools in Silesia, Poland that enroll students from the US, Canada, Asia, India, and UK.

Classes are taught in English as well as the native language of the country. The first two years of study are in Europe and the last two years of residency would be in the United States, presumably Western New York, through agreements between HMI and affiliated hospitals.

HMI is recognized by the World Health Organization, American State Medical Boards, the United States Department of Education, and the European Union so that normal federal financial aid programs are available to students in this program.

### Recent Graduates Now Study At:

University of Rochester, Ph.D., graduate program in chemistry, Wegman's School of Pharmacy, St. John Fisher College, University at Buffalo, Lake Erie College of Osteopathic Medicine, and Cornell University.

### Requirements for Specialization in Pre-Professional Track:

- A cumulative quality point average and science GPA of 3.0 earned before entry to upper division.
- A minimum grade of a B and an average of 3.2 earned in the following courses: BIO 109-110, 109L-110L, CHE 110-111, 301-302, 301L-302L; MTH 144; BCH 313, NSC 231.

### Requirements for Recommendation for Admission to Dental, Medical, Pharmacy, and Veterinary schools:

- Senior status in Pre-Professional program, a cumulative quality point average of 3.2, and an average of B earned in mathematics and science courses in first three years.

### Total Program requirements = 121 credits

#### Major: 76 credits:

General Biochemistry  
Biological Organic Chemistry  
Molecular Biology  
General Biology I  
General Biology II  
Chemistry I  
Chemistry II  
Organic Chemistry I  
Organic Chemistry II  
Introduction to Physical Chemistry  
Contemporary Chemical Analysis  
Scientific Language and Literacy  
Natural Science Literature Survey  
Natural Science Research Seminar  
Physics I or General Physics II

#### Science Electives: 18 credits

-courses must be at the 300 level or higher.

### II. Core Curriculum = 45 credits:

-9 credits must be upper division

#### 1. Required Courses: 9 credits

English Composition  
Sustainable & Critical Relationships  
Calculus & Analytic Geometry I

#### 2. Core Electives: 36 Credits

**\*Admittance to NOVA, LMU, SUNY Pharm D – students must meet all requisites, criteria, and standards of the program are met.**