

### MAJORS & CONCENTRATIONS (Pre-Med / Pre-Health students may choose any of these majors)

Athletic Training (B.S.)

Biochemistry (B.A. or B.S.)

Biology (B.S.)

Biology Education (B.S.)

Biomedical Sciences (B.S.)

Chemistry (B.A. or B.S.)

Chemistry Education (B.A.)

Environmental Policy (B.S.)

Environmental Science (B.S.)

Medical Technology (B.S.)

### STUDENTS & CLASS SIZES

- About 400 students major in School of Science disciplines; they are served by 21 full-time faculty and four full-time staff members.
- All Science students can join any of our student organizations: Phi Delta Epsilon, a pre-health society; Sigma Zeta, the Science and Mathematics National Honor Society; the American Chemical Society-Student Affiliate; Students Encouraging Environmental Dedication; and the Marist College Athletic Training Club.
- Very few introductory level lecture classes have more than 48 students, and introductory labs are limited to 24 students. Some upper level classes may even be smaller!
- Many students work in our Science facilities; several students conduct research alongside faculty mentors.

### SOME HIGHLIGHTS FOR 2007-2008

- We welcome new full-time faculty members Michael Powers (Athletic Training) and Amy Cahill (Biology).
- **Recently renovated (Fall 2007) chemistry facilities and a new (Fall 2009) Athletic Training Lab** provide outstanding space for teaching, learning, and student-faculty research.
- Special interest housing and academic programming for Science majors continues in Champagnat Hall.

### STUDENT & ALUMNI SUCCESS

- Since 1999, Marist students and alumni have enjoyed **outstanding success at gaining admission** to medical schools (78% success rate) and other health professional schools (79% success rate).
- Since 2006, three Marist science majors have been selected as a **Goldwater Scholars**, the nation's most prestigious award for undergraduate science majors.
- About 30 percent of Med Tech graduates from the past 10 years were initially employed by the top 11 rated hospitals in the U.S., including Johns Hopkins, Memorial Sloan-Kettering Cancer Center, and Massachusetts General.
- Since 1999, **over 100** different Science students have presented results of their faculty-directed research projects at national and regional scientific conferences; Marist students **regularly win awards** for these presentations.
- Recent student internships include those with the Cold Spring Harbor Laboratory, National Institutes of Health, Columbia University, Harvard Medical School, and the Institute of Ecosystem Studies.
- **May 2009** grads will study at Yale, Columbia, and UC Santa Barbara, among other institutions.

The following graduate and professional schools represent only a sample of programs at which Marist Science alumni **are currently pursuing or have recently received** advanced degrees:

Weill-Cornell School of Medicine (Physician Assistant)  
New York University (M.P.H. Global Public Health)  
Duke Univ. School of Medicine (D.P.T. - Physical Therapy)  
New York Institute of Technology (M.S., Physician Assistant)  
University of Iowa (M.D.)  
New York Medical College (M.D.)  
Duke University (M.S., Environmental Policy)

SUNY-Stony Brook School of Dentistry (D.D.S.)  
Columbia University (Ph.D., Chemistry)  
Yale Univ. (Ph.D., Chemistry)  
SUNY-Upstate Medical Center (M.D.)  
Univ. of Notre Dame (Ph.D., Ecology)  
SUNY-Downstate Medical Center (M.D.)  
Cornell University (Ph.D., Environmental Toxicology)

The following represent a few of the sites where Marist Science alumni are **currently employed**:

Memorial Sloan-Kettering Cancer Center  
New York State Dept. of Environmental Conservation  
U.S. Environmental Protection Agency  
Albany Molecular Research, Inc.  
San Francisco '49ers  
Wadsworth Research Center  
University of Rhode Island

Westchester Medical Center  
Dana Farber Cancer Center  
Bayer Corporation  
U.S. Food and Drug Administration  
Yale Univ. School of Forestry & Environmental Studies  
Minnesota Vikings  
New York City Department of Environmental Protection

### DISTINCT FEATURES OF OUR PROGRAMS

#### **Athletic Training** (Dr. Michael Powers, Chair & Program Director; 845-575-3912)

- Our program is **fully and unconditionally accredited** by the Commission on Accreditation of Athletic Training Education (CAATE), and is approved by New York State as a licensure-qualifying degree program.
- Provides strong scientific foundation via coursework, and solid practical experience via required internships.
- Clinical experiences via internships at high schools, colleges, sports medicine and therapy clinics, and with physicians make our students well-qualified for positions in athletic training or advanced PT and PA degrees.
- After passing the national certifying exam, graduates will be qualified for positions in high schools, colleges and universities, medical clinics and hospitals, pro sports organizations, and corporate and industrial settings.

#### **Biology** (Dr. Raymond Kepner, Chair, 845-575-3000,x-2285)

- Coursework in contemporary and traditional areas of Biology are the sound foundation for student preparation for entry-level positions in research labs or admission to graduate and professional schools.
- Strong record of success placing students in medical, veterinary, dental, physical therapy, physician assistant, and other health professional schools (**since 1999, 51 of the 65 students or alumni who applied were accepted to medical schools, and 127 of 159 applicants were accepted to other health professional schools!**).
- For information about our **Pre-Medical and Pre-Health Programs**, contact *Dr. Joseph Bettencourt, Advisor to the Health Professions*; 845-575-3000, x-2243
- Modern biotechnology instrumentation in recently remodeled laboratories.
- New York State Secondary Education Certification available via Biology Education track.

#### **Chemistry, Biochemistry, and Physics** (Dr. John Galbraith, Chair; 845-575-3000, x-2264)

- Our American Chemical Society-approved B.S. tracks include a **required research project**.
- Outstanding record of student placement into Ph.D. programs, medical schools, and industrial positions.
- Training on recently purchased state-of-the-art instrumentation.
- Biochemistry curricula (B.A. or B.S.) to prepare students for medical school or biotechnology careers.
- **New York State Secondary Education Certification via our B.A. Chemistry curriculum.**

#### **Environmental Science & Policy** (Dr. Thomas Lynch, Chair; 845-575-3000, x-2443)

- Required supervised internship or research experience in each track (Science or Policy) **provides practical experience** to prepare for entry into the work force or graduate school.
- Specialty courses taught by practicing expert professionals with real-world experience.
- Aquatic science lab adjacent to the **Hudson River** on our campus and departmental boat for river studies.
- Field sites on campus and at nearby Institute of Ecosystems Studies, Mohonk Preserve, and Norrie State Park.

#### **Medical Laboratory Sciences** (Dr. Catherine Newkirk, Chair and Program Director; 845-575-3000, x-2496)

- Medical Technology recently rated among **"best jobs in United States"** by *Jobs Rated Almanac*.
- Our program is **fully and unconditionally accredited** by the National Accrediting Agency for Clinical Laboratory Sciences, and is the only college-based program in New York north of NYC and east of Syracuse.
- Joint program in Cytotechnology with Memorial Sloan-Kettering Cancer Center (contact us for details).
- Guaranteed clinical rotation at local affiliated medical facilities (all within an easy commute from campus).
- Since the program's inception in 1982, **100 % of our graduates have found employment** in the field within six months of graduation, with very competitive salaries and opportunities for advancement.

#### Students in **all School of Science programs** benefit from:

- Similar first-year curriculum shared by all programs allows students to easily explore different Science majors.
- Small classes taught by award-winning faculty members (no graduate students).
- Personal attention and individualized advising from experienced full-time faculty.
- Student access to all facilities and training on all equipment and instrumentation.
- Student opportunities to conduct research projects and attend scientific conferences under faculty direction.
- Challenging curricula that include training in critical thinking, analytical, and ethical decision-making skills.
- Strong record of student placement into grad schools, professional schools, and employment.