

## Department of Physics

### PHYSIC 479

#### Readings in Physics I

Supervised individual study of special topics in physics that are not available in regular courses.

*Prerequisites: Junior standing and approval of plan of study by supervising instructor and by department chairperson.*

Hrs by arrangement, 1-3 Credits

### PHYSIC 480

#### Readings in Physics II

See PHYSIC 479.

### ENRPHY 481-482

#### Engineering Physics

#### Advanced Projects

#### Lab and Seminar

(See the "Engineering Physics" section of this publication.)

### PHYSIC 487

#### Research in Physics I

Supervised research.

*Prerequisite: Junior standing, and approval of plan of study by supervising instructor and department chairperson.*

Hrs by arrangement, 1-3 Credits

### Graduate Courses

Some graduate-level courses in physics are open to undergraduates. Please contact the department office for further information.

## PREMEDICAL STUDIES AND HEALTH-RELATED CAREERS PROGRAM

### Director

Associate Professor William Hagar

### Premedical Advisor

Grace McSorley

### The Program

This program offers matriculated students and post-baccalaureate students a comprehensive curriculum and advising support as they prepare for a career in medicine and health-related fields. For matriculated students, successful completion of the program is recorded on official University transcripts when they have met all graduation requirements. Students in the program are required to take a minimum of six science courses at UMass Boston as outlined below. These courses include the basic courses listed below in math, chemistry, physics, and biology, and may also include advanced science courses.

### Requirements

Students must take at least six of the following courses in the standard premedical course sequence here at UMass Boston:

- Biology: BIOL 111 and 112 (General Biology I and II)
- Chemistry: CHEM 103, 104, 253, and 254 (Chemical Principles I/II and Organic Chemistry I/II)
- Physics: PHYSIC 107 and 108 (College Physics I and II) or 113 and 114 (Fundamentals of Physics I/II); note that the physics laboratory courses (PHYSIC 181 and 182) are part of the premedical sequence but do not count toward the required six courses.
- Mathematics: MATH 130 (Precalculus), MATH 140 (Calculus I)

The student must receive a grade of B or better in each course counted toward the six required for the certificate or program of study.

The student must consult at least once each semester with the University Premedical Advisor as part of the ongoing planning process for applying to medical school or other health-related programs.

### Admission Requirements for the Post-Baccalaureate Certificate:

1. A bachelor's degree from an accredited college or university.
2. A completed application form.
3. Official transcripts from all institutions where degrees have been awarded.
4. One letter of recommendation from a faculty member (either from the previous university or from UMass Boston) who will support the applicant's ability to succeed in premedical coursework.