



# Pre-Medicine

## The Profession

Medicine is the science and art of diagnosing, treating, curing and preventing disease. Physicians practice in many medical specialties using a full range of health-care techniques aimed at preserving and improving health. A career as a physician is challenging, demanding and highly stimulating. It requires emotional maturity, commitment, motivation, and responsibility on behalf of the pre-medical and medical student and necessitates a sincere desire for human service.

## The Program at UW-Platteville

The pre-medicine program at UW-Platteville consists of selected courses which help to provide the student with a basic body of knowledge to meet the admissions requirements for medical schools and help insure that students completing the program succeed in medical school.

Admission to a medical school normally follows the completion of a baccalaureate degree consisting of specific courses and the fulfillment of other requirements of the medical school which the student plans to attend. Pre-medicine is a preprofessional program; therefore, the student must also indicate an academic major. A preprofessional program is not a major but rather a statement of intent.

## Medical School

The professional study in medicine requires four years beyond the undergraduate degree. This includes two years of academic study in the basic sciences and two years of training in the different clinical disciplines. The Doctor of Medicine (M.D.) degree is followed by a residency program to learn a specialty field. Based on the specialty, a residency ranges from three to seven years. After passing state board examinations and completing residency, a physician is licensed to practice clinical medicine.

## High School Preparation

In preparing to enter the pre-medicine program, the high school student needs to acquire a strong science/mathematics background. In addition, a good background in communication and social skills is helpful.

## Faculty and Facilities

The University of Wisconsin-Platteville provides the student with a strong liberal studies curriculum, a dedicated faculty and modern facilities to support the program. These include well-equipped chemistry, physics, and biology laboratories.

## Placement

The University of Wisconsin-Platteville has an excellent record of placing qualified students in medical schools.

## Outstanding Career Opportunities

The opportunities in medicine continue to be outstanding in both rural and urban settings. Great demand continues in family practice, as well as specialty fields. More physicians are also needed for medical research, medical education, and the growing fields of public health, rehabilitation, and industrial medicine. Several reasons for high demand of physicians include population growth, public awareness of the importance of health care, and higher standards of medical care. Certainly, health care continues to be one of the fastest growing industries in the United States.

## Suggested Course of Study

The requirements of the UW-Platteville pre-medicine program are designed to prepare students for the University of Wisconsin Medical School and the Medical College of Wisconsin. Other medical schools have similar admission requirements. Pre-medicine students are advised to seek information about requirements from the professional school they plan to attend.

## Minimum Requirements

### Academics

- 1) General Chemistry I (1140 ) and II (1240), Organic Chemistry I (3540/3510) and General Biochemistry (4630/4610), Organic Chemistry II (3630, 3610) recommended
- 2) Physics I (1140/1110) and II (1240/1210)
- 3) General Zoology (1450) and General Botany (1350)
- 4) Two semesters math (Statistics 1830 and Calculus 2640 are recommended)
- 5) English I (1130) and II (1230)

### Nonacademic

- 1) Health experience
- 2) Research experience
- 3) Service

## For More Information

For more information write to the Pre-Medicine Advisor, Department of Biology, University of Wisconsin-Platteville, 1 University Plaza, Platteville, Wisconsin 53818-3099, or call 608.342.1793 (Biology Office).

For general information on the university and its programs, consult the website at [www.uwplatt.edu](http://www.uwplatt.edu) or contact the UWP Prospective Student Services, University of Wisconsin-Platteville, 1 University Plaza, Platteville, WI 53818-3099, or call toll-free 1.877.897.5288 or locally 608.342.1068.

## Suggested Course of Study

### First Year

#### First Semester

1450	General Zoology	5
1140	General Chemistry	4
1130	English	3
1450	Precalculus or 2640 Calculus	4-5
1000	Fitness Assessment	1
		<b>17-18</b>

#### Second Semester

1240	Introductory Physics II	4
1210	Introductory Physics II Lab	1
4630	Biochemistry	3
4610	Biochemistry Lab	1
	Advanced Biology	2-3
	Liberal Arts Elective	3
		<b>14-17</b>

#### Second Semester

1350	General Botany	5
1240	General Chemistry	4
1230	English	3
1130	General Psychology	3
	Liberal Arts Elective	3
		<b>18</b>

### Fourth Year

#### First Semester

2150	Quantitative Analysis	4
	Advanced Biology	2-6
	Advanced Psychology	3
	Liberal Arts Electives	3-6
		<b>15-18</b>

### Second Year

#### First Semester

2140	Human Anatomy and Physiology I	4
3540	Organic Chemistry I	4
3510	Organic Chemistry I Lab	1
1830	Statistics	3
1030	Principles of Sociology	3
1010	Speech	2
		<b>17</b>

#### Second Semester

	Advanced Biology	6-8
	Advanced Psychology	3
	Liberal Arts Elective	6
		<b>15-18</b>

#### Second Semester

2240	Human Anatomy and Physiology II	4
3630	Organic Chemistry II	3
3610	Organic Chemistry II Lab	1
3330	Genetics	3
	Liberal Arts Electives	3-6
		<b>14-17</b>

In this suggested course of study, minimum requirements are supplemented with additional courses to meet graduation requirements, medical school recommendations and to prepare the student for the Medical College Admission Test (MCAT). The MCAT is typically taken in April of the third year, although it can be postponed to the August between the third and fourth years.

This program of study is prepared for a student majoring in Biology and minoring in Chemistry with a pre-medicine emphasis. A pre-medicine student can actually complete any major degree program while accomplishing pre-medicine minimum requirements.

Advanced Biology options include: 3040 Comparative Anatomy of Vertebrates, 3120 Animal Tissue Culture, 3140 Vertebrate Embryology, 3430 General Ecology, 3530 Biotechnology, 3620 Immunology, 3730 Evolution, 4040 Molecular Biology, 4130 Mammalian Endocrinology, 4240 Advanced Physiology, 4340 Mammalian Histology, 4410 Topics in Biology, 4440 Human Gross Anatomy, 4520 Biotechnology Seminar and 4920 Special Problems in Biology.

### Third Year

#### First Semester

1140	Introductory Physics I	4
1110	Introductory Physics I Lab	1
3240	Microbiology	4
2040	Cell Biology	4
	Liberal Arts Elective	3
	Physical Activity	1
		<b>17</b>

The University of Wisconsin-Platteville does not discriminate on the basis of age, race, creed, color, handicap, sex, sexual orientation, developmental disability, national origin, ancestry, marital status, arrest record or conviction record.