

# MEDICINE

## pre-professional program

Students pursuing a career as a Physician will spend four years in medical school (after earning an undergraduate degree) and then three to eight years in residency training.

### Employment Opportunities:

Allergy and Immunology

Anesthesiology

Cardiovascular Diseases

(Cardiology)

Dermatology

Endocrinology

Family Medicine/Practice

Gastroenterology

Hematology

Internal Medicine

Nephrology

Neurology

Obstetrics and Gynecology

Oncology

Ophthalmology

Orthopedic Surgery

Otolaryngology

Pathology

Pediatrics

Psychiatry

Pulmonary Diseases

Radiology

Rheumatology

Surgery

Urology



Medicine is the science and art of healing humans. It includes a variety of health care practices evolved to maintain and restore health by the prevention and treatment of illness. Contemporary medicine applies health science, biomedical research, and medical technology to diagnose and treat injury and disease, typically through medication, surgery, or some other form of therapy.

Students interested in a career in medicine will eventually need to earn a Doctor of Medicine or Doctor of Osteopathic Medicine degree AFTER completing a bachelor's degree. Medical Schools are looking for students who have a strong foundation in mathematics and the sciences that relate most to medicine: biology, general chemistry, organic chemistry, and physics. Entrance requirements at most medical schools include completion of course work in biology, mathematics, chemistry, physics, and English. Although Pre-Medicine majors at Pitt-Bradford chose any major, students are encouraged to study a major with a heavy concentration in the sciences like Biology, Chemistry or Sports Medicine in preparation for medical school requirements.

A liberal arts education is another key ingredient to becoming a physician thus the importance of the general education requirements at Pitt-Bradford. Medical schools want candidates who have a well-rounded undergraduate college experience. Students should take courses in the humanities, social sciences and composition in preparation for the "people" side of medicine. The ideal physician understands how society works, and can communicate well. Extracurricular activities in college also are important. Students should volunteer at a local hospital or clinic to gain practical health care experience.

### Required Skills:

- A Concern for People
- An Inquiring Mind
- A Rational Approach
- An Open Mind
- Ability to Handle Pressure
- Hard Work
- Patience
- Decisiveness
- Humility

### Possible Employers:

- Private Practice
- Hospital
- Immediate Care Clinic
- Health Clinic
- Military
- Sports Organization
- Law Firm
- Insurance Company
- College/University

### PROFESSIONAL ORGANIZATIONS:

American Medical Association

American Academy of Family Physicians (AAFP)

Pennsylvania Medical Society

AAPS - Association of American Physicians and Surgeons

[www.ama-assn.org](http://www.ama-assn.org)

[www.aafp.org](http://www.aafp.org)

[www.pamedsociety.org](http://www.pamedsociety.org)

[www.aapsonline.org](http://www.aapsonline.org)

### FIND OUT MORE ABOUT CAREERS IN MEDICINE AT:

Mahalo

Association of American Medical Colleges

Occupational Outlook Handbook

Career Services

[www.mahalo.com/how-to-become-a-doctor](http://www.mahalo.com/how-to-become-a-doctor)

[www.aamc.org/students/considering/gettingin/](http://www.aamc.org/students/considering/gettingin/)

[www.bls.gov/oco/ocos074.htm](http://www.bls.gov/oco/ocos074.htm)

[www.upb.pitt.edu/career.aspx](http://www.upb.pitt.edu/career.aspx)



## Pre-Medicine – Curriculum Guide

Student Name:

Advisor:

*Students can identify their career goals by following the Pre-Medicine advising track however this is not an official Pitt-Bradford major. Students interested in this career must select an official major while completing the Pre-Medicine requirements.*

Students interested in earning either a Doctor of Medicine (MD) or a Doctor of Osteopathic Medicine (DO) degree upon completing a bachelor's degree at the University of Pittsburgh at Bradford may choose to major in any academic discipline. Most students currently attending medical schools majored in Biology. Each medical school may have specific requirements, in addition to the minimum courses required by all medical schools, so students are advised to check with the medical schools of their choice prior to completing their bachelor's degree.

### MINIMUM PREREQUISITES INCLUDE:

- BIOL 0101 Introduction to Cell and Molecular Biology (4)
- BIOL 0102 Introduction to Biodiversity (4)
- CHEM 0101 General Chemistry I (4)
- CHEM 0102 General Chemistry II (4)
- CHEM 0206 Organic Chemistry I (3)
- CHEM 0207 Organic Chemistry I Lab (1)
- CHEM 0208 Organic Chemistry II (3)
- CHEM 0209 Organic Chemistry II Labs (1)
- ENG 0101 English Composition I (3)
- ENG 0102 English Composition II (3)
- MATH 0140 Calculus I (4)
- PHYS 0101 Introduction to Physics I (4)
- PHYS 0102 Introduction to Physics II (4) **OR**
- PHYS 0201/0203 Foundations of Physics I with lab (5)
- PHYS 0202/ 0204 Foundations of Physics II with lab (5)
- PSY 0101 Introduction to Psychology (3)
- PSY 0201 Statistics (4)
- SOC 0101 Introduction to Sociology (3)

Please note that transfer credits will be re-evaluated by the University of Pittsburgh School of Health and Rehabilitation Sciences.

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### GENERAL GRADUATION REQUIREMENTS

2.0 Cumulative Grade Point Average, 120 Earned Credit Hours, 30 Hours of Upper Level Courses (1000 level or above)

NOTE: This guide is unofficial. Completing the requirements on this sheet does NOT guarantee degree completion. Official degree completion information can be found in **MY.PITT.EDU**. Contact your Faculty Advisor and/or the Registrar's Office with questions or concerns.