

# PRE-MEDICINE

Undergraduate Credit Required	Bachelor's degree
Entrance Exam	MCAT
Professional Schooling Required	4 yrs medical school; 3-8 yrs residency Doctor of Medicine (MD) or Doctor of Osteopathy (DO) degrees
Local Professional Schools	Penn State University, PCOM, LECOM, Drexel University, Temple University, UPenn, Thomas Jefferson University, Geisinger University, University of Pittsburg, Duquesne University
Professional Organization Websites	aamc.org (Association of American Medical Colleges) aacomas.org (Osteopathic Medicine)
Major	Students can major in any subject at WCU for Pre-Medicine. The most common majors that align with medical school pre-requisites are Biology: Cell and Molecular Biology, Biology: Integrative Concentration, and Chemistry: Chem-Bio.

## REQUIRED AND SUGGESTED ELECTIVES FOR WCU UNDERGRADUATE STUDENTS

The following course recommendations are general requirements for MD/DO programs. For the specific requirements of your school of choice and whether AP/IB credit is accepted, please refer to that school's admissions website or contact those schools for a list of entrance requirements.

<b>Biological Sciences with labs (8 credit hours)</b>		
BIO 110 General Biology, BIO 111 General Biology II, BIO 211 Cell Biology, Bio 214 Microbiology		
Course	Term	Grade
<b>Genetics (required by most schools)</b>		
Course	Term	Grade
BIO 210		
<b>General Chemistry with lab</b>		
Course	Term	Grade
CHE 102/103* & CRL 103		
CHE 104 & CRL 104		
<b>Organic Chemistry with lab (CRL 232 recommended, not required)</b>		
Course	Term	Grade
CHE 231 & CRL 231		
CHE 232		
<b>Biochemistry (1 course)</b>		
Course	Term	Grade
CHE 476 (required)		
CHE 477 (recommended)		
<b>Physics with lab (2 courses)</b>		
Course	Term	Grade
PHY 130 or 170		
PHY 140 or 180		

\* Students need to take Che 102 or Che 103, not both

<b>English Composition (3 to 6 hrs)</b>		
Course	Term	Grade
WRT 120		
WRT 2XX		
<b>Calculus and Statistics (please contact school for specific admissions requirement)</b>		
Course	Term	Grade
MAT 121		
MAT 145		
<b>PSY 100 or SOC 100 (recommended)</b>		
Course	Term	Grade

### SUGGESTED ELECTIVES

**BIO 259. Anatomy and Physiology 1**  
**BIO 269. Anatomy and Physiology 2**  
**BIO 357. Comparative Vertebrate Anatomy**  
**BIO 428. Animal Histology**  
**BIO 440. Human Genetics**  
**BIO 448. Animal Development**  
**BIO 465. Immunology**  
**BIO 468. Comparative Vertebrate Physiology**  
**BIO 469. Human Physiology**  
**CHE 477. Biochemistry 2**  
**HEA 370. Medical Terminology**  
**PHI 371. Medical Ethics**

### Sample Course Plan of Pre-Medical Requirements

<u>Semester 1</u> CHE 102/103 CRL 103 BIO 110 WRT 120 MAT 121	<u>Semester 2</u> CHE 104 CRL 104 BIO 111 WRT 2XX MAT 145
<u>Semester 3</u> CHE 231 CRL 231 PHY 130 BIO 210 General/Major Electives	<u>Semester 4</u> CHE 232 PHY 140 BIO 211 PSY 100/SOC100 General/Major Electives
<u>Semester 5</u> BIO 214 CHE 476 General/Major Electives	<u>Semester 6</u> General/Major Electives
*** TAKE MCAT & APPLY TO MEDICAL SCHOOL <b>ONE YEAR</b> BEFORE YOU PLAN TO MATRICULATE to MEDICAL SCHOOL ***	
<u>Semester 7</u> General/Major Electives	<u>Semester 8</u> General/Major Electives

### Courses Covering MCAT 2015 content

BIO 110	CHE 102/103 and
104 BIO 111	CHE 231 and 232
BIO 210	CHE 476
BIO 211	CHE 477
BIO 214	PHY 130 and 140
BIO 259 and 269	PSY 100
BIO 440	SOC 100
BIO 468	
BIO 469	

Statistical reasoning skills tested on the MCAT may be obtained through science courses or through taking a statistical methods course (see front for options).

**Meet with the Pre-Medical Director to develop your MCAT preparation plan.**

## BEYOND ACADEMICS

Pre-Medical students are encouraged to participate in experiences such as leadership roles, volunteer work, research, and shadowing, which will help prepare them for medical school and the medical profession. Such experiences demonstrate a commitment to and knowledge of the profession. All students are **STRONGLY** encouraged to **shadow medical professionals, volunteer with health providers**, get involved with research and pursue internships. Additionally, involvement with clubs such as Pre-Med Club and Minorities in Medicine, will help students to learn more about the medical profession

## APPLICATION AND ADMISSION

There are two centralized application services. Application for admission to most medical schools are made through AMCAS (allopathic) or AACOMAS (osteopathic). This standardized application service is available online at [amc.org/students/applying/amcas](http://amc.org/students/applying/amcas) (allopathic) or [aacomas.aacom.org/](http://aacomas.aacom.org/) (osteopathic). Schools will then contact you to verify receipt of your application and inform you of any secondary applications and/or additional materials they require.

## ENTRANCE EXAM

The Medical College Admissions Test (MCAT) is required. The Official Guide to the MCAT can be found online at <https://www.aamc.org/students/applying/mcat/mcat2015/>. Students should obtain this publication as soon as possible and use it as a guide while preparing for the MCAT exam.

## ADDITIONAL APPLICATION INFORMATION

Applications to medical school require a **personal statement** and **letters of recommendation/evaluation**. The number of required letters varies by school. For the WCU Pre-Medical program, you will need to collect a minimum of 5 letters of recommendation (at least one from an MD or DO) and have them submitted to the pre-med office prior to requesting an interview from the pre-medical committee. You should get to know your professors so that they can write a thorough letter about your potential to be a successful medical student.