

# 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, PCOM, LECOM, Drexel, Temple, University of Pennsylvania, Thomas Jefferson University, Cooper Medical School of Rowan University, etc...
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. Consult the Medical School Admissions Requirements publication (AAMC) for additional information on all medical schools.

### MEDICAL SCHOOL REQUIREMENTS

Biological Sciences with labs (min. 2 courses)		
BIO 110 General Biology, BIO 215 Botany, BIO 217 Zoology, BIO 220 Cell Physiology		
Course	Term	Grade
Genetics (required by some schools)		
Course	Term	Grade
BIO 230		
General Chemistry with lab		
Course	Term	Grade
CHE 103 & CRL 103		
CHE 104 & CRL 104		
Organic Chemistry with lab		
Course	Term	Grade
CHE 231 & CRL 231		
CHE 232		
Biochemistry (1 course)		
Course	Term	Grade
CHE 476		
Physics with lab (2 courses)		
General Physics PHY 130 AND 140 or Physics 170 AND 180		
Course	Term	Grade
PHY 130 or 170		
PHY 140 or 180		

English Composition (3 to 6 hrs)		
Course	Term	Grade
WRT 120		
WRT 2XX		
Calculus and Statistics (please contact school for specific admissions requirement)		
Course	Term	Grade
MAT 121		
MAT 145		
PSY 100 or SOC 200 (recommended)		
Course	Term	Grade

### SUGGESTED ELECTIVES

**BIO 214: Microbiology**  
**BIO 259. Human Anatomy and Physiology I**  
**BIO 310. Biostatistics**  
**BIO 357. Comparative Vertebrate Anatomy**  
**BIO 422. Cancer Biology**  
**BIO 428. Animal Histology**  
**BIO 440. Human Genetics**  
**BIO 448. Animal Development**  
**BIO 465. Immunology**  
**BIO 468. Comparative Vertebrate Physiology**  
**BIO 469. Human Physiology\***  
**BIO 484. Epidemiology**  
**CHE 477. Biochemistry 2**  
**CHL 232. Organic Chemistry Lab II**

\* Does not count as a Biology major elective.

### Sample Course Plan of Pre-Medical Requirements

<u>Semester 1</u>	<u>Semester 2</u>
CHE 103	CHE 104
CRL 103	CRL 104
BIO 110	BIO 215/217
WRT 120	WRT 2XX
MAT 121	MAT 145
 <u>Semester 3</u>	 <u>Semester 4</u>
CHE 231	CHE 232
CRL 231	PHY 140
PHY 130	PSY 100/SOC200
BIO 230	General/Major Electives
General/Major Electives	
 <u>Semester 5</u>	 <u>Semester 6</u>
CHE 476	CHE 477
General/Major Electives	General/Major Electives
 <u>Semester 7</u>	 <u>Semester 8</u>
General/Major Electives	General/Major Electives

### Courses Covering MCAT 2015 content

BIO 110	CHE 476
BIO 215	CHE 477
BIO 217	
BIO 220	PSY 100
BIO 230	SOC 200
BIO 259	
CHE 103 and 104	
CHE 231 and 232	
PHY 130 and 140 or 170 and 180	

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, volunteering 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. Activities beyond the classroom play a significant role in a student's application to a professional school program.

### APPLICATION AND ADMISSION

There are two centralized application services, the American Medical College Application Service (AMCAS) and the American Association of Colleges of Osteopathic Medicine Application Service (AACOMAS). Application for admission to most medical schools are made through AMCAS (allopathic) or AACOMAS (osteopathic). This standardized application service is available online at [aamc.org/students/applying/amcas](http://aamc.org/students/applying/amcas) (allopathic) or [aacomas.aacom.org/](http://aacomas.aacom.org/) (osteopathic). AMCAS and AACOMAS will duplicate your application and forward it to the medical schools you are interested in. Schools will then contact you to verify receipt of your application and inform you of any additional materials they require to complete your application.

### ENTRANCE EXAM

The Medical College Admissions Test (MCAT) is required. The MCAT is a computer-based exam that is offered on set dates throughout the year. Information about the exam, registration, and 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 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 know you well enough to write a thorough letter about your potential to be a successful medical student.



Director, Pre-Medical Program – Dr. Teresa Donze-Reiner

WCU does not discriminate based upon any protected status.  
Please see [www.wcupa.edu/admin/social.equity/](http://www.wcupa.edu/admin/social.equity/)

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