

# PRE-HEALTH PROGRAM



COLLEGE OF  
SCIENCE AND  
MATHEMATICS

Do you dream of a career in healthcare? Do you have a desire to help others, seek knowledge, and generally like science?

Well, you are not alone! There are hundreds of Wright State University students with similar goals and tens of thousands nationally. Not to worry, the job opportunities are plentiful. According to the Bureau of Labor Statistics, healthcare occupations are projected to grow 19% from 2014 to 2024. This is faster than the average for all occupations and will add about 2.3 million new jobs. This growth is due to an aging population, increased access to healthcare, and the retirements of currently employed healthcare providers.

Most healthcare professions require advanced professional degrees as well as clinical training. This is generally 2-4 years of schooling and possibly 1-7 years of training in addition to your undergraduate degree. So if you are doing the math, this is a 6-15 year educational journey! Getting into professional school is *very* competitive. Having the desire, good grades and tests scores simply is not enough. Today's health professions schools are looking for well-rounded, firmly grounded, and genuinely humane individuals. They seek diversity in their student body, as varied as the patients they will serve. The best healthcare providers care *about* their patients as much as they care *for* them.

Now you may be wondering if it is worth it and if it is right for you. If you ask almost anyone working as a healthcare professional, they will absolutely say that it is worth it! So how do you know if a career in healthcare is for you and how do you choose which one? Here are some suggestions to help you consider.

**Self-Assess:** Do you like working with people? Are you comfortable working with diverse populations (young, old, disabled, dying, etc)? Are you a team player? What lifestyle do you envision? Healthcare careers can offer stable and erratic schedules.

**Explore:** Are you comfortable in a healthcare setting? Learn about health professions by attending workshops or seminars, researching careers on the internet, or shadowing someone in the profession. Connect with other Wright State Pre-Health and medical students through mentoring programs and the Pre-Health Society. The more you know, the better off you will be!

**Commit:** Do you like and are you comfortable learning and studying science? Choose a major you are passionate about and that challenges you; one that you will enjoy and perform well in. Are you willing to continue learning throughout your career? Are you interested in volunteering, community service, and outreach? These are opportunities to cultivate and develop compassion, empathy, intellectual curiosity and good communication skills which go a long way in helping someone to become an excellent healthcare provider.

The Pre-Health Program is here to support you and help you to be the most competitive applicant you can be. We provide a current understanding of the requirements and trends for professional schools in **medicine, chiropractic, dentistry, occupational therapy, optometry, pharmacy, physical therapy, physician assistant, podiatry, and veterinary medicine.**

Your pre-health advisor will work alongside academic advisors to help you:

- explore majors and careers
- combine professional school pre-requisites with undergraduate coursework
- assess your strengths and interests
- engage in research, mentoring, community outreach, and shadowing
- prepare for entrance tests
- navigate and complete the application process for various professional schools
- prepare for interviewing



63% of WSU students who worked with a pre-health advisor were admitted to medical school in 2016-17 compared to 39% nationally.

# Common Health Professions Program Prerequisites

Wright State University offers all the courses necessary to meet the requirements for admission to most health professional schools in the United States. In addition, all required courses are offered at least twice a year to accommodate students' schedules.

## Medical School: WSU Courses

- **Biology I and II w/ labs:** BIO 1120/L and BIO 1150/L
- **General Chemistry I and II w/ labs:** CHM 1210/L and CHM 1220/L
- **Organic Chemistry I and II w/ labs:** CHM 2110/L and CHM 2120/L
- **Physics I and II w/ labs:** PHY 1110/L and PHY 1120/L
- **Math:** STT 2640 (1600) and MTH 2240 (or higher)
- **Biochemistry:** BMB 4210 and BMB 4230
- **English:** ENG 1100 & 2100
- **Human A&P:** ANT 3100 & ANT 3120

### Matriculant Data 2016:

<u>Allopathic – MD</u>	<u>Osteopathic - DO</u>
Total Applicants: 52,550	20,447
Total Matriculants: 20,631	6,392
GPA (overall): 3.55	3.47
GPA (science): 3.45	3.45
MCAT Score: >500 is competitive	>495 is competitive

## Chiropractic School: WSU Courses

- **Biology I and II w/ labs:** BIO 1120/L and BIO 1150/L
- **General Chemistry I and II w/ labs:** CHM 1210/L and CHM 1220/L
- **Organic Chemistry I w/ lab:** CHM 2110/L
- **Physics I and II w/ labs:** PHY 1110/L and PHY 1120/L
- **English:** ENG 1100 and ENG 2100
- **Psychology:** PSY 1010/L
- **Social Sciences or Humanities Courses (15+ hours)**

### Matriculant Data 2016:

Total Applications: unknown  
Total Matriculants: 2,500  
GPA (min/overall): 2.75

## Dental School: WSU Courses \*add'l course for Ohio State School of Dentistry

- **Biology I and II w/ labs:** BIO 1120/L and BIO 1150/L
- **General Chemistry I and II w/ labs:** CHM 1210/L and CHM 1220/L
- **Organic Chemistry I and II w/ labs:** CHM 2110/L and CHM 2120/L
- **General Physics w/ labs:** PHY 1110/L and PHY 1120/L
- **\*Microbiology:** BIO 3100 and 3110
- **\*Biochemistry:** BMB 4210 and BMB 4230
- **English:** ENG 1100 and ENG 2100
- **\*Human A&P:** ANT 3100 and ANT 3120

### Matriculant Data 2016:

Total Applicants: 11,745  
Total Matriculants: 5,892  
GPA (overall): 3.55  
GPA (science): 3.47  
DAT (mean): 19.9

## Occupational Therapy School: WSU Courses

- **Biology:** BIO 1010 and BIO 1070 or BIO 1120
- **Human A&P:** ANT 2100 and ANT 2120
- **Psychology:** PSY 1010/L, PSY 3110, PSY 3410
- **Sociology:** SOC 2000
- **Statistics:** STT 1600 or STT 2640
- **Medical Terminology:** BIO 1010
- **Physics I and/or II w/ labs:** PHY 1110/L and/or PHY 1120/L

### Matriculant Data 2016:

Total Applicants: 1,481 (doctoral) and 40,839 (master's)  
Total Matriculants: 227 (doctoral) and 6,682 (master's)  
GPA: 3.0 minimum  
GRE: scores vary per program, generally 50<sup>th</sup> percentile

## Optometry School: WSU Courses

- **Biology I and II w/ labs:** BIO 1120/L and BIO 1150/L
- **General Chemistry I and II w/ labs:** CHM 1120/L and CHM 1210/L
- **Organic Chemistry I and II w/ labs:** CHM 2110/L and CHM 2120/L
- **Physics I and II w/ labs:** PHY 1110/L and PHY 1120/L
- **Physiology:** ANT 3110 and ANT 3120
- **Psychology:** PSY 1010/L, PSY 3410
- **Microbiology:** M&I 2200 or BIO 3100 and 3110
- **Biochemistry:** BMB 4210 or BMB 3220
- **Mathematics:** MTH 2240 or 2300

- **English:** ENG 1100 and 2100
- **Medical Terminology:** BIO 1010
- **Social Sciences & Humanities Courses (6 hrs each)**

### Matriculant Data 2016 (OSU):

Total Applicants: ~600  
Total Matriculants: 67  
GPA (overall): 3.51  
OAT: scores > 320 are competitive

## Pharmacy School WSU Courses

- **Biology I and II w/ labs:** BIO 1120/L and BIO 1150/L
- **General Chemistry I and II w/ labs:** CHM 1210/L and CHM 1220/L
- **Organic Chemistry I and II w/ labs:** CHM 2110/L and CHM 2120/L
- **Physics I and II w/ lab:** PHY 1110/L and PHY 1120/L
- **Human A&P:** ANT 3100 and ANT 3120
- **Microbiology:** BIO 3100 and BIO 3110 or M&I 2200
- **Calculus:** MTH 2240 or MTH 2300
- **Statistics:** STT 2640 or STT 1600
- **English:** ENG 1100 and ENG 2100

*In addition, some schools will require:*

- **Economics:** EC 2000
- **Psychology:** PSY 1010/L
- **Biochemistry:** BMB 4210 and BMB 4230
- **Public Speaking:** COM 1010

### Matriculant Data 2016:

Total Applicants: 17,365  
GPA (overall): 3.36  
GPA (science): 3.23  
PCAT Score: 54<sup>th</sup> percentile is competitive

## Physician Assistant School: WSU Courses

- **Human A&P:** ANT 3100 and ANT 3120
- **Biology I and II w/ labs:** BIO 1120/L and BIO 1150/L
- **Microbiology w/lab:** M&I 2200 or BIO 3100 and BIO 3110
- **Chemistry I and II w/labs:** CHM 1210/L and CHM 1220/L
- **Organic Chemistry I and II w/ labs:** CHM 2110/L and CHM 2120/L
- **Statistics:** STT 2640 (1600)
- **Biochemistry:** BMB 4210 or BMB 3220
- **Nutrition:** KNH 2620
- **Psychology:** PSY 1010, 3110, and 3410

- **Medical Terminology:** BIO 1010

### Matriculant Data 2016:

Total Applicants: 22,997  
GPA (overall): 3.34  
GPA (science): 3.24  
GRE Score: >50<sup>th</sup> percentile is competitive

## Physical Therapy School: WSU Courses

- **Biology I and II w/ labs:** BIO 1120/L and BIO 1150/L
- **General Chemistry I and II w/ labs:** CHM 1210/L and CHM 1220/L
- **Physics I and II w/ labs:** PHY 1110/L and PHY 1120/L
- **Human A&P:** ANT 3100 and ANT 3120
- **Psychology:** PSY 1010/L, PSY 3410
- **Statistics:** STT 2640 or STT 1600
- **Exercise Physiology:** BIO 3530 or KNH 2550

### Matriculant Data 2016:

Total Applicants: 16,828  
Total Accepted: 8,214  
GPA (overall): 3.57  
GPA (science): 3.42  
GRE Score: 50<sup>th</sup> percentile is competitive

## Podiatric Medical School: WSU Courses

- **Biology I and II w/ labs:** BIO 1120/L and BIO 1150/L
- **General Chemistry I and II w/ labs:** CHM 1120/L and CHM 1210/L
- **Organic Chemistry I and II w/ labs:** CHM 2110/L and CHM 2120/L
- **Physics I and II w/ lab:** PHY 1110/L and PHY 1120/L
- **English I and II:** ENG 1100 and ENG 2100

### Matriculant Data 2016:

Total Applicants: 1,004  
Total Accepted: 631  
GPA (overall): 3.3  
GPA (science): 3.2  
MCAT: 21.4 (old score) ~492 (new score)

## Veterinary School: WSU Courses

- **Microbiology:** BIO 3100 or BIO 3110
- **Biochemistry:** BMB 4210 and BMB 4230 or BMB 3220
- **Public Speaking:** COM 1010
- **Physiology:** BIO 3050 or ANT 3100 & ANT 3120
- **Science Electives (35 hours)**
- **Humanities and Social Science Electives (16 hours)**

### Matriculant Data 2016:

Total Applicants: 6,769  
Total Accepted: 3,310  
GPA (overall): 3.48  
GRE Score: 60<sup>th</sup> percentile is competitive

*The information provided is for general pre-health advisement only. All health profession programs are different and may have requirements that differ from the information listed. Additionally, some schools may not accept online coursework, or AP, IB, CLEP, AICE, or CAPE credits to fulfill pre-requisite requirements. Students should meet with their major advisor, to ensure graduation requirements are met AND a pre-health advisor, to ensure their pre-professional requirements are met and that they are building a competitive profile. Students are responsible for verifying admissions information for their programs of interest. All information is subject to change.*

# Suggested Timeline for the Pre-Professional Student

## Freshman Year

- Meet with Pre-Health advisor
- Take Pre-Health Seminar
- Join Pre-Health Society
- Request a medical mentor
- Explore a major and/or minor
- Develop superior study skills
- Interact with faculty
- Maintain competitive GPA
- Get involved
- Volunteer/Work in healthcare (Clinic, ER, Hospital, CNA/STNA, EMT)
- Research different healthcare careers

## Sophomore Year

- Meet with Pre-Health advisor
- Explore research opportunities
- Cultivate relationships with faculty
- Maintain competitive GPA
- Volunteer/Work in healthcare
- Select major and/or minor
- Research medical school entrance requirements (should have about 75% of all prerequisites completed)
- Shadow a professional
- Research summer programs
- Apply to Early Assurance Programs

## Junior Year

- Meet with Pre-Health advisor
- Maintain competitive GPA
- Volunteer/Work in healthcare
- Explore/continue research
- Study for entrance exams (MCAT, GRE, PCAT, DAT, OAT)
- Register for and take entrance exams
- Seek out leadership opportunities
- Visit professional schools and attend open houses
- Request letters of recommendation
- Apply to professional school (early summer)

## Senior Year

- Meet with Pre-Health advisor
- Continue research, volunteering, community service, leadership, shadowing
- Maintain competitive GPA
- Review requirement completion for schools you are applying to
- Complete secondary applications
- Track application
- Interview
- Graduate
- Prepare "Plan B"

## Additional Information

### Wright State University Pre-Health Program

[www.wright.edu/prehealth](http://www.wright.edu/prehealth)

### Explore Health Careers

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

### Bureau of Labor Statistics

[www.bls.gov](http://www.bls.gov)

### Careers in Science

[www.sciencemag.org/careers](http://www.sciencemag.org/careers)

### Association of American Medical Colleges

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

### American Association of Colleges of Osteopathic Medicine

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

### Association of Chiropractic Colleges

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

### American Dental Education Association

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

### American Occupational Therapy Association

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

### Association of Schools and Colleges of Optometry

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

### American Association of Pharmacy

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

### American Physical Therapy Association

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

### American Academy of Physician Assistants

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

### American Association of Colleges of Podiatric Medicine

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

### Association of American Veterinary Colleges

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

### American Association of Naturopathic Medicine

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

## Contact Us

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