



# Prerequisites Courses

**What classes do I need to take?** Being a pre-health student means that you will be responsible for keeping track of your major requirements (UCR degree requirements) as well as your health profession's requirements. Below are general requirements for the most common health professions. **REMEMBER:** These general requirements can vary between schools. Always double check the prerequisite courses of the schools you plan on applying to.

## Pre-Health Core Requirements

- 1 year of English
- 2 quarters of Calculus
- 1 year of General Chemistry with Lab
- 1 year of Biology with Lab
- 1 year of Organic Chemistry with Lab
- 1 year of Physics with Lab
- 1 quarter of Biochemistry

In addition to the core requirements above, a list of common prerequisites for several health professions are

### Medicine (M.D. / D.O.): MCAT prep.

- 1 quarter of Statistics
- 2 quarters of General Psychology
- 1 quarter of General Sociology

### Pharmacy (PharmD)

- 1 quarter of Statistics
- 1 year of Human Anatomy & Phys. w/ Lab
- 1 quarter of Microbiology w/ Lab
- 1 quarter of Economics
- 1 quarter of Public Speaking

### Dentistry (D.D.S. / D.M.D.)

- 1 year Human Anatomy & Phys. w/ Lab
- 1 quarter Microbiology w/ Lab

### Recommended

- Immunology
- Histology
- Molecular Biology
- Genetics

### Physical Therapy (D.P.T.)

- 1 year of Human Anatomy & Phys. w/ Lab
- 1 quarter of Public Speaking
- \*Organic Chemistry and Biochemistry are not required

### Optometry (O.D.)

- 1 year of Human Anatomy & Phys. w/ Lab
- 1 quarter of Microbiology w/ Lab
- 1 quarter of Statistics

### Veterinary Medicine (D.V.M.)

- 1 year of Anatomy & Phys. w/ Lab
- 1 quarter of Microbiology w/ Lab
- 2 quarters of Soc. / Behavioral Science
- 1 quarter of Genetics

### Podiatric Medicine (D.P.M.)

#### Recommended

- 1 quarter of Microbiology w/ Lab
- 1 year of Human Anatomy & Phys. w/ Lab

Nursing and Physician Assistant programs do not follow the same core requirements as listed above.

### Nursing

- 1 year of math: college algebra & statistics
- 1 year of English
- 1 year of Chemistry w/ Lab
- 1 year of Human Anatomy & Phys. w/ Lab
- 1 quarter of Microbiology w/ Lab
- 1 quarter of Psychology
- 1 quarter of Nutrition
- 1 quarter of Public Speaking

### Physician's Assistant (P.A.)

- 1 year of math: college algebra & statistics
- 1 year of English
- 1 year of General Chemistry w/ Lab
- 1 year of General Biology w/lab
- 1 year of Human Anatomy & Phys. w/ Lab
- 1 quarter of Microbiology w/ Lab
- 1 quarter of Psychology
- \*Organic Chemistry and/or Biochemistry may be required

*It is important to identify both major and pre-health requirements as these do not always overlap. Also, note that many of the courses listed below have a pre-requisite requirement. Additional information can be found at [HPAC.ucr.edu](http://HPAC.ucr.edu) under the "Preparing to Apply" tab.*

#### MATH

MATH 007A/009A - First Year Calculus  
MATH 007B/009B - First Year Calculus  
STAT 10 (prev. 100A)/40 or Psyc 11 - Intro. to Statistics

For students whose AP credit replaced classes above\*

MATH 009C - First Year Calculus  
MATH 010A - Calculus: Several Variables  
MATH 010B - Calculus: Several Variables  
MATH 046 - Intro to Ordinary Differential Equations

#### ENGLISH

ENGL 001A - English Composition  
ENGL 001B - English Composition  
ENGL 001C - English Composition *or*  
HNPG 002W- Principles of Civic Engagement

For students whose AP credit replaced classes above\*

ENGL 020A - Intro. to British Literature  
ENGL 020B - Intro. to American Literature  
ENGL 020C - Intro. to Critical Perspective  
CRWT 056 - Intro. to Creative Writing  
CRWT 176 - Topics in Craft of Writing

#### GENERAL CHEMISTRY

CHEM 001A – General Chemistry  
CHEM 011A – General Chemistry Lab  
CHEM 001B – General Chemistry  
CHEM 011B – General Chemistry Lab  
CHEM 001C – General Chemistry  
CHEM 011C – General Chemistry Lab

#### BIOCHEMISTRY

BCH 100 - Elementary Biochemistry  
BCH 110 A, B, C - General Biochemistry

#### BIOLOGY

BIOL 005A - General Biology  
BIOL 05LA /20 - General Biology Lab  
BIOL 005B with lab - General Biology  
BIOL 005C with lab - General Biology

#### UPPER DIVISION BIOLOGY

BIOL 102 - Introductory Genetics  
BIOL 107A - Molecular Biology  
BIOL 110 - Biology of Human Problems  
BIOL 121 - Microbiology  
BIOL 121L - Microbiology Lab  
BIOL 128 - Immunology

#### ORGANIC CHEMISTRY

CHEM 08A with lab - Organic Chemistry  
CHEM 08B with lab - Organic Chemistry  
CHEM 08C with lab - Organic Chemistry

#### PHYSICS

PHYS 002A - General Physics  
PHYS 02LA - General Physics Lab  
PHYS 002B - General Physics  
PHYS 02LB - General Physics Lab  
PHYS 002C - General Physics  
PHYS 02LC - General Physics Lab

#### PSYCHOLOGY

PSYC 001 - Intro to Psych. (Experimental)  
PSYC 002 - Intro to Psych. (Social Sciences)  
PSYC 160 - Lifespan Development  
PSYC 178 - Health Psychology

#### SOCIOLOGY

SOC 001 - Intro. to Sociology  
SOC/PBPL 127 - Social Determinants of Health  
SOC/PBPL 167 - Medical Sociology

#### ECONOMICS

ECON 002 - Intro. to Macroeconomics  
ECON 003 - Intro. to Microeconomics

#### PHILOSOPHY

PHIL 002 - Contemporary Moral Issues

#### PUBLIC POLICY

PBPL 004 - Ethics, Professionalism, & Public Pol.  
PBPL 006 - Introduction to Public Health PBPL 162- Health in All Policies

#### PUBLIC SPEAKING

TFDP 50S - Public Speaking

#### ANATOMY / PHYSIOLOGY

BIOL 161A - Functional Anatomy of Vertebrates  
BIOL 161B - Functional Anatomy of Vertebrates  
BIOL 171A - Human Physiology  
BIOL 171B— Human Physiology

\*UCR does not offer a **full year** of **Human** Anatomy and Physiology. *Please see an HPAC Advisor regarding taking this series outside of UCR.*

## Have you met with an HPAC advisor?

Pre-health advisors in the Health Professions Advising Center (HPAC) are highly skilled and resourced to discuss and advise on issues regarding pre-health admissions criteria such as course requirements, curricular involvement, personal statement review, professional test preparation, and much more.

To meet with an HPAC Advisor, please contact HPAC to set up an appointment.

