

Pre-Health Prerequisite 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

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

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

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

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

Optometry (O.D.)

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

Pharmacy (PharmD)

- 1 quarter of Statistics
- 1 year of Human Anatomy & Phys. w/ Lab
- 1 quarter of Microbiology w/ Lab
- 1 quarter of General Psychology
- 1 quarter of Soc./Behavioral Science
- 1 quarter of Public Speaking

Physical Therapy (D.P.T.)

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

Podiatric Medicine (D.P.M.)

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

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

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 PPAC.ucr.edu under the "Preparing to Apply" tab.

MATH

MATH 007A/009A - First Year Calculus
MATH 007B/009B - First Year Calculus
STAT 010/40 or PSYC011 - 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 /001B/001C – General Chemistry
CHEM 011A/011B/011C – General Chem. 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/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 008A/008B/008C with lab - Organic Chemistry

PHYSICS

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

PHYS 040A/040B/040C - General Physics
PHYS 040LA/040LB/040LC - General Physics Lab

**The Physics 002 and Physics 040 series are accepted.*

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 161/006 - Introduction to Public Health
PBPL 162- Health in All Policies

PUBLIC SPEAKING

TFDP 50S - Public Speaking

SOCIETY, ENVIRONMENT, AND HEALTH

SEHE001 - Environment, Society, Culture
SEHE002 - Health Equity and Health Justice
SEHE106S - Movements & Advocacy in Environmental Justice & Health Equity
SEHE161 - Reproductive Justice

ANATOMY / PHYSIOLOGY

BIOL171A - Human Anatomy with Lab
BIOL171B - Human Physiology
BIOL171C - Human Physiology and
BIOL171L - Human Physiology Lab

Have you met with a PPAC advisor?

Pre-health advisors in the Pre-Professional Advising Center (PPAC) 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 a PPAC Advisor, please contact PPAC to set up an appointment.

