Health Career Prerequisites for Science Majors

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 (IUPUI degree requirements) as well as your health profession’s requirements. Below are general requirements for the most common health professions.

It is important to remember to complete both your major requirements and your pre-health requirements as these do not always overlap. Be sure to contact your academic advisor with any questions/concerns you have with enrollment, courses, units offered at IUPUI that correspond to the pre-health requirements.

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 Curriculum
- 2 semesters English (ENG-W131; ENG-W230/W231/W270 or TCM 22000/32000)
- 2 semesters College Math (MATH 15300 & MATH 15400 or higher)
- 2 semesters General Chemistry w/ lab (CHEM-C 105 & C125, C106 & C126)
- 2 semesters Biology w/ lab (BIOL-K101, K103)
- 2 semesters Organic Chemistry w/ lab (CHEM-C341 & C343, C342 & C344)
- 2 semesters Physics w/ lab (PHYS-P201, P202)

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

**Dentistry (DDS)**
- 1 semester Human Anatomy w/ lab (BIOL-N261)
- 1 semester Human Physiology w/ lab (BIOL-N217)
- 1 semester Microbiology (BIOL-K356)
- 1 semester Biochemistry (BIOL-K 384 or CHEM-C 484)
- 1 semester Psychology (PSY-B110)

**Strongly recommended coursework includes statistics, genetics, cell biology, and immunology.***

**Medicine (MD/DO)**
- 1 semester Biochemistry (BIOL-K 384 or CHEM-C 484)
- 1 semester Psychology (PSY-B110)
- 1 semester Sociology (SOC-R100)

**Strongly recommended coursework includes statistics, genetics, cell biology, immunology, human anatomy, and human physiology.***

**Optometry (OD)**
- 1 semester Microbiology w/ lab (BIOL-K356 & K357)
- 1 semester Biochemistry (BIOL-K 384 or CHEM-C 484)
- 1 semester Calculus (MATH 23100 or 16500)
- 1 semester Statistics (STAT 30100 or 35000)
- 1 semester Introductory Psychology (PSY-B110)
- 1 semester Human Anatomy or Human Physiology w/ lab (BIOL-N261 or N217)

**Many programs only require Organic Chemistry I.**

**Physical Therapy (DPT)**
- 1 semester Human Anatomy w/ lab (BIOL-N261)
- 1 semester Human Physiology w/ lab (BIOL-N217)
- 1 semester Medical Terminology (HIM-M330, CLAS-C 210, or RADI-R 108)
- 1 semester Introductory Psychology (PSY-B110)
- 1 semester Lifespan Human Development (PSY-B310)
- 1 semester Statistics (STAT 30100 or 35000)

**Does not require organic chemistry.**

**Pharmacy (PharmD)**
- 1 semester Calculus (MATH 23100 or 16500)
- 1 semester Human Anatomy w/ lab (BIOL-N261)
- 1 semester Human Physiology w/ lab (BIOL-N217)
- 1 semester Microbiology & Lab (BIOL-K356 & K357)
- 1 semester Economics (ECON-E201 or E202)
- 1 semester Statistics (STAT 30100 or 35000)
- 1 semester Speech Communication (COMM-R110)
- 1 semester Introductory Psychology or Sociology (PSY-B110 or SOC-R100)

**Only requires Physics I**

**Strongly recommended coursework includes biochemistry, genetics, and Calculus II.***

**Veterinary Medicine (DVM)**
- 1 semester Genetics (BIOL-K322)
- 1 semester Microbiology w/ lab (BIOL-K356 & K357)
- 1 semester Biochemistry (BIOL-K 384 or CHEM-C 484)
- 1 semester Communications (COMM-R110)
- 3 semesters humanities (Psychology (PSY-B110), Sociology (SOC-R100), or foreign language)
Occupational Therapy does not follow the same core requirements as listed above. The prerequisites for this program are listed below.

**Occupational Therapy (OTD)**
- 1 semester Human Anatomy w/ lab (BIOL-N261)
- 1 semester Human Physiology w/ lab (BIOL-N217)
- 1 semester Physics w/ lab (PHYS-P201)
- 1 semester Medical Terminology (HIM-M330, CLAS-C 210, or RADI-R 108)
- 1 semester Psychology (PSY-B110)
- 1 semester Lifespan Human Development (PSY-B310)
- 1 semester Abnormal Psychology (PSY-B380)
- 1 semester Sociology (SOC-R100) or Anthropology
- 1 semester Statistics (STAT 30100 or 35000)

***Strongly recommended coursework includes biology, chemistry, and human cadaver anatomy***