## QUICK GUIDE:
Common Pre-Health Pre-Requisites
Revised 9/14/2022

### MEDICINE (Physician: MD or DO)
- 1 year Biology (BIOL 111 & 212)
- 1 year General Chemistry (CH 110/120 or 115/230)
- 1 year Organic Chemistry (CH 250/251)
- 1 year Physics (PH 111/112)
- Biochemistry (BIOL 361 or CH 460/461)
- Statistics (MTH 160 or 260)
- Psychology & Sociology

Requirements of individual programs vary. Some programs require Genetics (BIOL 213), Anatomy & Physiology (EXCS 221/222), Calculus (MTH 180/181) and/or other courses.

### VETERINARY MEDICINE
- Biology (BIOL 111, 112 or 212, 213)
- 1 year General Chemistry (CH 110/120 or 115/230)
- 1 year Organic Chemistry (CH 250/251)
- Biochemistry (BIOL 361 or CH 460/461)
- 1 year Physics (PH 111/112 or 121/122)
- Microbiology (BIOL 350)
- Animal Nutrition and/or Animal Science (not offered at UPS)
- English (SSI 1 & SSI 2)

Most programs require: Calculus (MTH 180/181) and Statistics (MTH 160 or 260). Some programs require Public Speaking, Medical Terminology (not offered at UPS), BIOL 212, Physiology, Psychology and/or Sociology.

### NURSING
- Biology (BIOL 111 & 112)
- Chemistry (CH 110/120 or 115/230, Some require CH 250/251)
- Anatomy & Physiology (EXCS 221/222)
- Statistics (MTH 160 or 260)
- Microbiology (BIOL 350)
- Lifespan Psychology (PSYC 222)
- Sociology
- Nutrition (EXSC 301)

Individual programs may vary significantly in their requirements. Many programs require grades of B or higher in all pre-requisite courses.

### OPTOMETRY
- 1 year Biology (BIOL 111 & 212)
- 1 year General Chemistry (CH 110/120 or 115/230)
- 1 year Organic Chemistry (CH 250/251)
- 1 year Physics (PH 111/112 or 121/122)
- Immunology (not offered at Puget Sound)
- Anatomy & Physiology (EXCS 221/222)
- Calculus & Statistics (EXCS 221/222)
- Psychology
- English (SSI 1 & SSI 2)

Requirements of individual programs vary.

### DENTISTRY
- Biology (BIOL 111, 112, 212)
- 1 year General Chemistry (CH 110/120 or 115/230)
- 1 year Organic Chemistry (CH 250/251)
- 1 year Physics (PH 111 & 112)
- Biochemistry (BIOL 361 or CH 460/461)
- English (SSI 1 & SSI 2)
- Anatomy & Physiology (EXCS 221/222)

Requirements of individual programs vary. Some programs require Microbiology (BIOL 350), Genetics (BIOL 213), and other courses.

### PHARMACY
- Biology (BIOL 111 & 112)
- 1 year General Chemistry (CH 110/120 or 115/230)
- 1 year Organic Chemistry (250/251)
- 1 year Physics (PH 111/112 or 121/122)
- Calculus (MTH 180)
- Anatomy & Physiology (EXCS 221/222)
- Microbiology (BIOL 350)
- Biochemistry (BIOL 361 or CH 460/461)*
- Statistics (MTH 160 or 260)

*Some programs may recommend a full year of Biochemistry.

### PHYSICIAN ASSISTANT
- Biology (BIOL 111, 112 & 213)
- 1 year General Chemistry (CH 110/120)
- 1 year Organic Chemistry (CH 250/251)
- Statistics (MTH 160 or 260)
- Anatomy & Physiology (EXCS 221/222)
- Microbiology (BIOL 350)
- Psychology
- Experience (1-2 yrs paid full-time work)

Individual programs may vary significantly in their requirements. Some programs may require Medical Terminology (not offered at Puget Sound). Many programs require grades of B or higher in all pre-requisite courses.

### PODIATRY
- 1 year Biology (BIOL 111 & 212)
- 1 year General Chemistry (CH 110/120 or 115/230)
- 1 year Organic Chemistry (CH 250/251)
- 1 year Physics (PH 111/112 or 121/122)
- Biochemistry (BIOL 361 or CH 460/461)
- Statistics (MTH 160 or 260)
- Psychology & Sociology
- English (SSI 1 & SSI 2)

Requirements of individual programs vary. Human Anatomy & Physiology (EXSC 221/222) may be required.

---

Have specific questions about your path as a pre-health student?
Contact Health Professions Advising at healthprofessions@pugetsound.edu or visit www.pugetsound.edu/HPA
<table>
<thead>
<tr>
<th>Occupation</th>
<th>Required Courses</th>
<th>Additional Information</th>
</tr>
</thead>
</table>
| PHYSICAL THERAPY            | ✅ 1 year Biology (BIOL 111/212)  
|                            | ✅ 1 year Chemistry (CH 110/120 or 115/230)  
|                            | ✅ 1 year Physics (PH 111/112)  
|                            | ✅ Anatomy & Physiology (EXCS 221/222)  
|                            | ✅ Statistics (MATH 160)  
|                            | ✅ 2 semesters of Psychology (PSYC 101 plus Developmental or Lifespan Psychology)                                       | Requirements of individual programs may vary. Many programs require or strongly recommend Exercise Physiology (EXCS 329), Biomechanics (EXCS 336), Nutrition (EXSC 301), and/or other courses. |
| CHIROPRACTIC MEDICINE       | ✅ 1 year Biology (BIOL 111 & 212)  
|                            | ✅ 1 year General Chemistry (CH 110/120 or 115/230)  
|                            | ✅ 1 year Organic Chemistry (CH 250/251)  
|                            | ✅ 1 year Physics (PH 111/112)  
|                            | ✅ Biochemistry (BIOL 361 or CH 460/461)  
|                            | ✅ Anatomy & Physiology (EXCS 221/222)  
|                            | ✅ Statistics (MTH 160 or 260)  
|                            | ✅ Psychology  
|                            | ✅ Biomechanics (EXCS 336) and/or Exercise Physiology (EXCS 329)                                                       | Requirements of individual program may vary significantly.                                                                                             |
| PATHOLOGIST ASSISTANT       | ✅ 1 year Biology (BIOL 111 & 212)  
|                            | ✅ Anatomy & Physiology (EXCS 221/222)  
|                            | ✅ 1 year General Chemistry (CH 110/120 or 115/230)  
|                            | ✅ 1 year Organic Chemistry (CH 250/251)  
|                            | ✅ 1 year Physics (PH 111/112)  
|                            | ✅ 1 year Calculus (MTH 180/181)                                                                                            | Requirements of individual program may vary. Some programs may require or recommend Biochemistry with a lab (CH 460). Applicants must take either the MCAT or GRE. |
| ANESTHESIOLOGIST ASSISTANT  | ✅ 1 year Biology (BIOL 111 & 212)  
|                            | ✅ Microbiology (BIOL 350)  
|                            | ✅ Anatomy & Physiology (EXSC 221 & 222)  
|                            | ✅ 1 year General Chemistry (CH 110/120 or 115/230)  
|                            | ✅ 1 semester Organic Chemistry (CH 250)  
|                            | ✅ 1 semester Mathematics (college algebra or higher, Statistics—MTH 160 or MTH 260—may be recommended)  
|                            | ✅ English Composition (SSI 1 & SSI 2)                                                                                     | Requirements of individual programs vary. Some programs may require or recommend Medical Terminology and Histology (neither offered at Puget Sound), Biochemistry (BIOL 361) and/or Physics. |
| GENETIC COUNSELOR           | ✅ 1 year Biology (BIOL 111 & 212)  
|                            | ✅ 1 year General Chemistry (CH 110/120 or 115/230)  
|                            | ✅ Genetics (BIOL 213)  
|                            | ✅ Biochemistry (BIOL 361 or CH 460/461)  
|                            | ✅ 1-2 semesters of Psychology (PSYC 101 and/or PSYC 222, varies by program)                                              | Requirements of individual programs vary. Some programs may require or recommend Organic Chemistry (CH 250/251), and/or courses from Sociology & Anthropology. |
|                            | ✅ Statistics (MTH 160 or 260)  
|                            | ✅ Anatomy & Physiology (EXCS 221/222)  
|                            | ✅ Nutrition (EXSC 301)  
|                            | ✅ 1 year General Chemistry (CH 110/120 or 115/230)  
|                            | ✅ 1 year Biology (BIOL 111 & 212)  
|                            | ✅ 1 semester Organic Chemistry (CH 250)  
|                            | ✅ 1 year Physics (PH 111/112)  
|                            | ✅ Biochemistry (BIOL 361 or CH 460/461)  
|                            | ✅ 1-2 semesters of Psychology (PSYC 101 and/or PSYC 222, varies by program)                                              | Master of Public Health programs commonly do not have specific pre-requisite coursework as application requirements. Prospective MPH students can have a variety of undergraduate academic degrees, and may benefit from courses in human biology, statistics, and sociology. Students should check with any MPH programs to which they are interested in applying. |
|                            | ✅ Psychology (1 semester)  
|                            | ✅ Microbiology (BIOL 350)  
|                            | ✅ Statistics (MTH 160 or 260)  
|                            | ✅ Exercise Physiology (EXCS 329)  
|                            | ✅ Nutrition (EXSC 301)  
|                            | ✅ 1 year General Chemistry (CH 110/120 or 115/230)  
|                            | ✅ 1 year Biology (BIOL 111 & 212)  
|                            | ✅ 1 semester Organic Chemistry (CH 250)  
|                            | ✅ 1 year Physics (PH 111/112)  
|                            | ✅ Biochemistry (BIOL 361 or CH 460/461)  
|                            | ✅ 1-2 semesters of Psychology (PSYC 101 and/or PSYC 222, varies by program)                                              | Suggested courses* applicable to public health may include: SOAN 360, SOAN 365, STS 366, CONN 320, PSYC 345, BIOE 292/PHIL 292, BIOE 392, COMM 450 & IPE 331. *Students are encouraged to research frequency by which courses are offered via the course bulletin. |
|                            | ✅ Anatomy & Physiology (EXCS 221/222)  
|                            | ✅ Psychology (1 semester)  
|                            | ✅ Microbiology (BIOL 350)  
|                            | ✅ Statistics (MTH 160 or 260)  
|                            | ✅ Exercise Physiology (EXCS 329)  
|                            | ✅ Nutrition (EXSC 301)  
|                            | ✅ 1 year General Chemistry (CH 110/120 or 115/230)  
|                            | ✅ 1 year Biology (BIOL 111 & 212)  
|                            | ✅ 1 semester Organic Chemistry (CH 250)  
|                            | ✅ 1 year Physics (PH 111/112)  
|                            | ✅ Biochemistry (BIOL 361 or CH 460/461)  
|                            | ✅ 1-2 semesters of Psychology (PSYC 101 and/or PSYC 222, varies by program)                                              | Have specific questions about your path as a pre-health student? Contact Health Professions Advising at healthprofessions@pugetsound.edu or visit www.pugetsound.edu/HPA. |