

QUICK GUIDE: Common Pre-Health Pre-Requisites

Revised 2/19/2024

ANESTHESIOLOGIST ASSISTANT	<ul style="list-style-type: none"> ✓ 1 year Biology (BIOL 111 & 212) ✓ Anatomy & Physiology (EXCS 222/221) ✓ 1 year General Chemistry (CH 110/120) ✓ 1 year Organic Chemistry (CH 250/251) ✓ 1 year Physics (PH 111/112) ✓ 1 year Calculus (MTH 180/181) <p>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.</p>	<ul style="list-style-type: none"> ✓ 1 year Biology (BIOL 111 & 212) ✓ 1 year General Chemistry (CH 110/120) ✓ 1 year Organic Chemistry (CH 250/251) ✓ 1 year Physics (PH 111/112) ✓ Biochemistry (BIOL 361 or CH 460/461) ✓ Anatomy & Physiology (EXCS 222/221) ✓ 1 semester Statistics (MTH 160 or 260) ✓ 1 semester Psychology ✓ Biomechanics (EXCS 336) and/or Exercise Physiology (EXCS 329) <p>Requirements of individual program may vary.</p>	CHIROPRACTIC MEDICINE
DENTISTRY	<ul style="list-style-type: none"> ✓ 3 semesters Biology (BIOL 111, 112 & 212) ✓ 1 year General Chemistry (CH 110/120) ✓ 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 222/221) <p>Requirements of individual programs may vary. Some programs require Microbiology (BIOL 350), Genetics (BIOL 213), Statistics (MTH 160 or 260), Calculus (MTH 180 and/or MTH 181), Psychology, Sociology/Anthropology and other courses. A small number of programs recommend: Histology, Zoology, Immunology and/or Molecular Biology.</p>	<ul style="list-style-type: none"> ✓ 1 year Biology (BIOL 111 & 212) ✓ 1 year General Chemistry (CH 110/120) ✓ Genetics (BIOL 213) ✓ Biochemistry (BIOL 361 or CH 460/461) ✓ 1-2 semesters of Psychology (PSYC 101 and/or PSYC 222, varies by program) ✓ 1 semester Statistics (MTH 160 or 260) ✓ Anatomy & Physiology (EXCS 222/221) <p>Requirements of individual programs may vary. Some programs may require or recommend Organic Chemistry (CH 250/251), and/or courses from Sociology & Anthropology.</p>	GENETIC COUNSELING
MEDICINE (Physician: MD or DO)	<ul style="list-style-type: none"> ✓ 1 year Biology (BIOL 111 & 212) ✓ 1 year General Chemistry (CH 110/120) ✓ 1 year Organic Chemistry (CH 250/251) ✓ 1 year Physics (PH 111/112) ✓ Biochemistry (BIOL 361 or CH 460/461) ✓ 1 semester Statistics (MTH 160 or 260) ✓ 1 semester Psychology ✓ 1 semester Sociology ✓ English/Composition (SSI 1 & SSI 2) <p>Requirements of individual programs may vary. Some programs require Genetics (BIOL 213), Anatomy & Physiology (EXCS 222/221), Calculus (MTH 180/181), 2 semesters of Biochemistry, and/or other courses.</p>	<ul style="list-style-type: none"> ✓ 1 year Biology (BIOL 111 & 112) ✓ 1 year General Chemistry (CH 110/120, Some require CH 250/251) ✓ Anatomy & Physiology (EXCS 222/221) ✓ 1 semester Statistics (MTH 160 or 260) ✓ Microbiology (BIOL 350) ✓ Lifespan Psychology (PSYC 222) ✓ 1 semester Sociology ✓ Nutrition (EXSC 301) <p>Individual programs may vary significantly in their requirements. Many programs require grades of B or higher in all pre-requisite courses. Some programs may require Interpersonal/Group Communication.</p>	NURSING
NUTRITION/ DIETETICS	<ul style="list-style-type: none"> ✓ Nutrition (EXSC 301) ✓ 1 year General Chemistry (CH 110/120) ✓ 1 year Biology (BIOL 111 & 212) ✓ 1 semester Organic Chemistry (CH 250) ✓ Biochemistry (BIOL 361 or CH 460/461) ✓ Anatomy & Physiology (EXCS 222/221) ✓ 1 semester Psychology ✓ Microbiology (BIOL 350) ✓ 1 semester Statistics (MTH 160 or 260) ✓ Exercise Physiology (EXSC 329) <p>Requirements of individual programs may vary. Some programs require Food Science & Management of Nutrition Services (neither offered at UPS), Ethics, Public Speaking, and Strength Training/Conditioning.</p>	<ul style="list-style-type: none"> ✓ 1 semester Statistics (MTH 160 or 260) ✓ 2 semesters Psychology (PSYC 220 & 221) ✓ 1 Additional 200+ level course in Psychology, Sociology or Anthropology (focus must be on individual and/or group interaction, culture or mental health) ✓ Anatomy & Physiology (EXCS 222/221) <p>Requirements of individual programs vary and may also include BIOL 111/112, BIOL 350, CHEM 110/120, CHEM 250/251, PHYS 111/112, Medical Terminology* (not offered at Puget Sound), and/or English. *GLAM 120 fulfills the medical terminology requirement for the Puget Sound OTD Program.</p>	OCCUPATIONAL THERAPY

OPTOMETRY	<ul style="list-style-type: none"> ✓ 1 year Biology (BIOL 111 & 212) ✓ 1 year General Chemistry (CH 110/120) ✓ 1 year Organic Chemistry (CH 250/251) ✓ 1 year Physics (PH 111/112 or 121/122) ✓ Immunology (<i>not offered at Puget Sound</i>) ✓ Anatomy & Physiology (EXCS 222/221) ✓ Calculus & Statistics (MTH 160 & 180) ✓ 1 semester Psychology ✓ 1 year English (SSI 1 & SSI 2) <p><i>Requirements of individual programs may vary.</i></p>	<ul style="list-style-type: none"> ✓ 1 year Biology (BIOL 111 & 212) ✓ Microbiology (BIOL 350) ✓ Anatomy & Physiology (EXSC 222/221) ✓ 1 year General Chemistry (CH 110/120) ✓ 1 semester Organic Chemistry (CH 250) ✓ 1 semester Mathematics (college algebra or higher, Statistics—MTH 160 or MTH 260—may be recommended) ✓ 1 year English/Composition (SSI 1 & SSI 2) <p><i>Requirements of individual programs may vary. Some programs may require or recommend Medical Terminology and Histology (neither offered at Puget Sound), Biochemistry (BIOL 361) and/or Physics.</i></p>	PATHOLOGIST ASSISTANT
PHARMACY	<ul style="list-style-type: none"> ✓ 1 year Biology (BIOL 111 & 112) ✓ 1 year General Chemistry (CH 110/120) ✓ 1 year Organic Chemistry (250/251) ✓ 1 year Physics (PH 111/112 or 121/122) ✓ Calculus (MTH 180) ✓ Anatomy & Physiology (EXCS 222/221) ✓ Microbiology (BIOL 350) ✓ Biochemistry (BIOL 361 or CH 460/461)* ✓ 1 semester Statistics (MTH 160 or 260) <p><i>*Some programs may require a full year of Biochemistry and/or one semester of Economics. Some programs may require only one semester of General Biology (BIOL 111 or 112) and/or only one semester of Physics (PH 111 or 121).</i></p>	<ul style="list-style-type: none"> ✓ 1 year Biology (BIOL 111/112 or 111/212) ✓ 1 year General Chemistry (CH 110/120) ✓ 1 year Physics (PH 111/112 or 121/122) ✓ Anatomy & Physiology (EXCS 222/221) ✓ 1 semester Statistics (MATH 160) ✓ 2 semesters Psychology (PSYC 101/222) <p><i>Requirements of individual programs may vary. Many programs require or strongly recommend Exercise Physiology (EXSC 329), Biomechanics (EXSC 336), Nutrition (EXSC 301), and/or other courses.</i></p>	PHYSICAL THERAPY
PHYSICIAN ASSISTANT (also known as Physician Associate)	<ul style="list-style-type: none"> ✓ 3 semesters Biology (BIOL 111, 112 & 213) ✓ 1 year General Chemistry (CH 110/120) ✓ 1 year Organic Chemistry (CH 250/251) ✓ 1 semester Statistics (MTH 160 or 260) ✓ Anatomy & Physiology (EXCS 222/221) ✓ Microbiology (BIOL 350) ✓ 1 semester Psychology <p><i>Individual programs may vary significantly in their requirements. Some programs may require Medical Terminology (not offered at Puget Sound) and/or Biochemistry (BIOL 361). Many programs require grades of B or higher in all pre-requisite courses.</i></p>	<ul style="list-style-type: none"> ✓ 1 year Biology (BIOL 111 & 212) ✓ 1 year General Chemistry (CH 110/120) ✓ 1 year Organic Chemistry (CH 250/251) ✓ 1 year Physics (PH 111/112 or 121/122) ✓ Biochemistry (BIOL 361 or CH 460/461) ✓ 1 semester Statistics (MTH 160 or 260) ✓ 1 semester Psychology ✓ 1 semester Sociology ✓ 1 year English (SSI 1 & SSI 2) <p><i>Requirements of individual programs may vary. Anatomy & Physiology (EXSC 222/221) may be required.</i></p>	PODIATRIC MEDICINE (PODIATRY)
PUBLIC HEALTH	<p>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.</p> <p>Suggested courses applicable to public health may include: SOAN 360, SOAN 365, STHS 366, CONN 320, PSYC 345, BIOE 292/PHIL 292, BIOE 392, COMM 450 & IPE 331</p>	<ul style="list-style-type: none"> ✓ 1 year Biology (BIOL 111/112 or 212/213) ✓ 1 year General Chemistry (CH 110/120) ✓ 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 (<i>not offered at Puget Sound</i>) ✓ 1 year English (SSI 1 & SSI 2) <p><i>Most programs require: Calculus (MTH 180/181) and Statistics (MTH 160 or 260). Some programs require Public Speaking, Medical Terminology (not offered at Puget Sound), Cell Biology (BIOL 212), Physiology (EXSC 221), Psychology and/or Sociology.</i></p>	VETERINARY MEDICINE