

Health Professions

Preparation for Health Professions

www.whitworth.edu/health-professions (<http://www.whitworth.edu/academic/programs/PreprofessionalHealthStudies/>)

Whitworth has a long history of preparing students for graduate programs and successful careers in the health professions, such as athletic training, chiropractic, dental, medical, nursing, occupational therapy, pharmacy, physical therapy and veterinary medicine. Recent graduates have been accepted into professional schools at the following institutions:

Albert Einstein College of Medicine	Saint Louis University
A.T. Still University	San Jose University
Bastyr University	Stanford University
Central Washington University	Touro University
Cornell University	University of Arizona
Creighton University	University of Edinburgh, Scotland
Des Moines University	University of Hawaii
Eastern Washington University	University of Indiana
Hastings College	University of Indianapolis
Idaho State University	University of Kentucky
Indiana University	University Nevada, Las Vegas
Iowa State University	University of Oregon
Jefferson University	University of Pennsylvania
Loma Linda University	University of Pittsburgh
Mayo School of Health Sciences	University of Puget Sound
Mayo Graduate School of Medicine	University of Southern California
Michigan State University	University of Utah
Midwestern University	University of Virginia
Oregon Health and Science University	University of Washington
Pacific Northwest University	Virginia-Maryland Regional
Pacific University	Utah State University
Palmer College of Chiropractic	Washington State University
Rosalind Franklin University	Western University of Health Sciences

The choice to pursue a career or graduate program in the health and wellness arena connects seamlessly to the mission of Whitworth University: equipping graduates to honor God, follow Christ and serve humanity. Whitworth's rigorous liberal arts education gives students a broad knowledge base and a set of analytical, critical-thinking and communication skills that enable them to thrive in graduate school and in their chosen careers. During their time at Whitworth, students are encouraged to explore new areas of interest and to choose a major that focuses on an area that they find most exciting. Most health-related graduate programs accept students from all majors and disciplines, as long as they have taken the required prerequisite courses. Therefore, all students preparing for careers in the health professions are encouraged to work closely with an advisor in their chosen major and with the health professions advisor (listed below each program's title) to develop a curriculum that prepares them to take the Medical College Admission Test (MCAT), the Dental Admission Test (DAT), or the Graduate Record Examination (GRE), and/or to apply to the graduate school of their choice.

Specific prerequisites for programs may differ; it is the student's responsibility to check the prerequisites for the institution to which the student wishes to apply. The following are some examples of health professions and the suggested courses for entrance into these graduate programs.

Pre-Chiropractic

Advisor: Daman Hagerott

Chiropractic schools vary widely in their prerequisites. Check with your advisor and the D.C. school in which you are interested for specific course requirements. Also, meet with your advisor regularly to develop an academic plan that meets your interests and goals.

Pre-Dentistry

Advisors: Karen Stevens, Mike Sardinia, Deanna Ojennus, Elizabeth Abbey, Alisha Epps

The following courses are usually required for pre-dentistry students:

BI 140 & 140L	General Biology I: Genes, Cells and Evolution and General Biology I: Genes, Cells and Evolution Lab	4
BI 143 & 143L	General Biology II: Ecology and Evolution and Ecology and Evolution Lab	4
CH 161 & 161L	General Chemistry I and General Chemistry I Lab	4
BI 306	Medical Microbiology	4
BI 306L	Medical Microbiology Lab	0
CH 181 & 181L	General Chemistry II and General Chemistry II Lab	4
CH 271 & 271L	Organic Chemistry I and Organic Chemistry I Lab	4
CH 278 & 278L	Organic Chemistry II and Organic Chemistry II Lab	4
CH 401 or BI 311	Biochemistry I General Biochemistry	3
PS 151	General Physics I	3
PS 153	General Physics II	3
One year of college English		6

Pre-Medicine

Advisors: Karen Stevens, Mike Sardinia, Deanna Ojennus, Elizabeth Abbey, Alisha Epps

Pre-requisites for medical schools can vary widely and represent only the minimum amount of required preparation. The following are those courses that the pre-med advising committee advises that pre-med students take to best prepare for medical school. It is recommended that pre-med students enroll in two seminar courses that have been specially designed by the Whitworth faculty to provide information to pre-med students and help prepare students for the MCAT and application process. Those seminar courses are: SC/STEM 126 Seminar for Health Professions and STEM 351 Preparatory Seminar: Health Professions. **It is also strongly suggested to meet with an advisor to review planned coursework.**

Courses recommended to be a strong, competitive applicant:		
BI 140 & 140L	General Biology I: Genes, Cells and Evolution and General Biology I: Genes, Cells and Evolution Lab	4
BI 143 & 143L	General Biology II: Ecology and Evolution and Ecology and Evolution Lab	4
CH 161 & 161L	General Chemistry I and General Chemistry I Lab	4
CH 181 & 181L	General Chemistry II and General Chemistry II Lab	4
CH 271 & 271L	Organic Chemistry I and Organic Chemistry I Lab	4
CH 278 & 278L	Organic Chemistry II and Organic Chemistry II Lab	4
One of the following biochemistry courses:		3-4
CH 401 & 401L	Biochemistry I and Biochemistry I Lab	
Or		
BI 311	General Biochemistry	

One of the following sets of physics courses:		8
PS 151 & 151L	General Physics I and General Physics I Lab	
PS 153 & 153L	General Physics II and General Physics II Lab	
Or		
PS 131 & 131L	College Physics for Life Sciences and College Physics for Life Sciences Laboratory I	
PS 133 & 133L	College Physics for Life Sciences II and College Physics for Life Sciences Lab II	
PY 101	Introductory Psychology	3
SO 120	Introduction to Sociology	3
One year of college English.		6
BI 323 & 323L	Animal Physiology and Lab: Animal Physiology	4
BI 350 & 350L	Comparative Vertebrate Anatomy and Lab: Comparative Vertebrate Anatomy	4
BI 354 & 354L	Developmental Biology and Lab: Developmental Biology	4
One of the following genetics courses:		4
BI 363 & 363L	Genetics and Lab: Genetics	
BI 399 & 399L	Molecular Genetics and Molecular Genetics Lab	
BI 412	Cell Physiology	3
CH 403	Biochemistry II	3
MA 171	Calculus I	4
MA 256	Elementary Probability and Statistics	3
One of the following ethics courses:		3
PH 221	Ethics	
PH 302	Medical Ethics	

Pre-Med Tech

Advisor: Deanna Ojennus

Note: Medical technology schools vary widely in their prerequisites. Check with your advisor and the med-tech school in which you are interested for more specific courses required.

The courses shown here are required by the Providence Sacred Heart Medical Center (PSHMC) medical laboratory science program.

BI 140 & 140L	General Biology I: Genes, Cells and Evolution and General Biology I: Genes, Cells and Evolution Lab	4
BI 143 & 143L	General Biology II: Ecology and Evolution and Ecology and Evolution Lab	4
CH 161 & 161L	General Chemistry I and General Chemistry I Lab	4
BI 306 & 306L	Medical Microbiology and Medical Microbiology Lab	4
CH 181 & 181L	General Chemistry II and General Chemistry II Lab	4
CH 271 & 271L	Organic Chemistry I and Organic Chemistry I Lab	4
CH 278 & 278L	Organic Chemistry II and Organic Chemistry II Lab	4
CH 401 & 401L	Biochemistry I and Biochemistry I Lab	4

MA 256	Elementary Probability and Statistics	3
Immunology*		
Other recommended courses:		
BI 308	Biology of HIV/AIDS	3
BI 346	Field Parasitology	3
BI 354 & 354L	Developmental Biology and Lab: Developmental Biology	4
BI 363 & 363L	Genetics and Lab: Genetics	4
BI 399 & 399L	Molecular Genetics and Molecular Genetics Lab	4
BI 412	Cell Physiology	3
CH 335 & 335L	Analytical Chemistry and Analytical Chemistry Lab	4
CH 336 & 336L	Spectroscopic Analysis and Spectroscopic Analysis Lab	4
CH 403	Biochemistry II	3
HS 185	Medical & Anat. Terminology	1
HS 220 & 220L	Anatomy and Physiology I and Lab: Anatomy and Physiology I	4
HS 221 & 221L	Anatomy and Physiology II and Lab: Anatomy and Physiology II	4
HS 410	Chronic Disease Epidemiology and Prevention	3
* Immunology is not offered at Whitworth and must be completed at another institution or online. See your advisor for a list of possible online courses.		

Pre-Occupational Therapy

Advisor: Loriann Helgeson

The prerequisite courses for professional occupational therapy programs vary by institution. The list of courses below is based on the requirements for the more rigorous programs that Whitworth students consider. Check with your advisor and the OT schools in which you are interested for more specific course requirements. Also, meet with your advisor regularly to develop an academic plan that meets your interests and goals.

Information about Whitworth University's occupational therapy doctoral program may be found here (<https://www.whitworth.edu/cms/academics/occupational-therapy-doctorate/>).

BI 140 & 140L	General Biology I: Genes, Cells and Evolution and General Biology I: Genes, Cells and Evolution Lab	4
CH 101 or CH 161	Introduction to Chemistry General Chemistry I	3
CH 101L or CH 161L	Introduction to Chemistry Lab General Chemistry I Lab	1
HS 185	Medical & Anat. Terminology	1
HS 220 & 220L	Anatomy and Physiology I and Lab: Anatomy and Physiology I	4
HS 221 & 221L	Anatomy and Physiology II and Lab: Anatomy and Physiology II	4
HS 320	Structural and Mechanical Kinesiology	4
PY 101	Introductory Psychology	3
PY 210	Developmental Psychology	3
PY 358	Psychopathology	3
PS 151 or PS 131	General Physics I College Physics for Life Sciences	3
SO 120	Introduction to Sociology	3

or SO 200	Introduction to Cultural Anthropology	
PY 201	Psychological Statistics	3
or MA 256	Elementary Probability and Statistics	
EL 211	Introduction to Professional Writing	3
Performing Arts and Humanities: We also recommend one course that emphasizes the creative process (art, dance, film, music, theatre, or creative writing) and one class that emphasizes the lived experience (ethics, gender studies, history, languages, literature, philosophy, religion and theology).		

Pre-Pharmacy

Advisors: Karen Stevens, Deanna Ojennus

Note: Pharmacy schools vary widely in their prerequisites. Check with your advisor and the pharmacy school in which you are interested for more specific courses required.

The following set of courses is recommended for all pre-pharmacy students:

BI 140 & 140L	General Biology I: Genes, Cells and Evolution and General Biology I: Genes, Cells and Evolution Lab	4
BI 143 & 143L	General Biology II: Ecology and Evolution and Ecology and Evolution Lab	4
CH 161 & 161L	General Chemistry I and General Chemistry I Lab	4
CH 181 & 181L	General Chemistry II and General Chemistry II Lab	4
CH 271 & 271L	Organic Chemistry I and Organic Chemistry I Lab	4
CH 278 & 278L	Organic Chemistry II and Organic Chemistry II Lab	4
CH 401 & 401L & CH 403	Biochemistry I and Biochemistry I Lab and Biochemistry II	7
EC 210	Principles of Microeconomics	3
MA 171	Calculus I	4
MA 256	Elementary Probability and Statistics	3
COM 210	Introduction to Public Speaking	3
One year of college English		6
One of the following:		4
BI 306	Medical Microbiology (plus lab)	

Pre-Physical Therapy

Advisor: Smokey Fermin, Matt Silvers

The prerequisite courses for professional physical therapy programs vary by institution. The list of courses below is based on the requirements for the more rigorous programs that Whitworth students consider. Check with your advisor and the PT schools in which you are interested for more specific course requirements. Also, meet with your advisor regularly to develop an academic plan that meets your interests and goals.

Information about Whitworth University's physical therapy doctoral program may be found here (<https://www.whitworth.edu/cms/academics/doctor-of-physical-therapy/>).

BI 140 & 140L	General Biology I: Genes, Cells and Evolution and General Biology I: Genes, Cells and Evolution Lab	4
BI 143 & 143L	General Biology II: Ecology and Evolution and Ecology and Evolution Lab	4
CH 161 & 161L	General Chemistry I and General Chemistry I Lab	4
CH 181 & 181L	General Chemistry II and General Chemistry II Lab	4

HS 220 & 220L	Anatomy and Physiology I and Lab: Anatomy and Physiology I	4
HS 221 & 221L	Anatomy and Physiology II and Lab: Anatomy and Physiology II	4
HS 320	Structural and Mechanical Kinesiology	4
MA 256	Elementary Probability and Statistics	3
PS 151 & 151L	General Physics I and General Physics I Lab	4
or PS 131 & 131L	College Physics for Life Sciences and College Physics for Life Sciences Laboratory I	
PS 153 & 153L	General Physics II and General Physics II Lab	4
or PS 133 & 133L	College Physics for Life Sciences II and College Physics for Life Sciences Lab II	
PY 101	Introductory Psychology	3
PY 358	Psychopathology	3
SO 120	Introduction to Sociology	3
One year of college-level writing (e.g. EL 110 + another EL writing course)		6

Pre-Physician Assistant

Advisor: Elizabeth Abbey

The prerequisite courses for professional physician assistant programs vary by institution. The list of courses below is based on the requirements for the more rigorous programs that Whitworth students consider. Check with your advisor and the PA schools in which you are interested for more specific course requirements. Also, meet with your advisor regularly to develop an academic plan that meets your interests and goals.

HS 220 & 220L	Anatomy and Physiology I and Lab: Anatomy and Physiology I	4
HS 221 & 221L	Anatomy and Physiology II and Lab: Anatomy and Physiology II	4
BI 140 & 140L	General Biology I: Genes, Cells and Evolution and General Biology I: Genes, Cells and Evolution Lab	4
BI 143 & 143L	General Biology II: Ecology and Evolution and Ecology and Evolution Lab	4
BI 306	Medical Microbiology (plus lab)	4
CH 161 & 161L	General Chemistry I and General Chemistry I Lab	4
CH 181 & 181L	General Chemistry II and General Chemistry II Lab	4
MA 256	Elementary Probability and Statistics	3
PY 101	Introductory Psychology	3
or SO 120	Introduction to Sociology	
One year of college English		6
Other courses that are recommended may include:		
CH 271 & 271L	Organic Chemistry I and Organic Chemistry I Lab	4
BI 311	General Biochemistry	3
BI 363 & 363L	Genetics and Lab: Genetics	4
or BI 399 & 399L	Molecular Genetics and Molecular Genetics Lab	
HS 185	Medical & Anat. Terminology	1

PY 210	Developmental Psychology (some schools require both of these)	3
or PY 358	Psychopathology	

Pre-Veterinary

Advisors: Mike Sardinia

The following courses are usually required for pre-veterinary students:

BI 140 & 140L	General Biology I: Genes, Cells and Evolution and General Biology I: Genes, Cells and Evolution Lab	4
BI 143 & 143L	General Biology II: Ecology and Evolution and Ecology and Evolution Lab	4
BI 323 & 323L	Animal Physiology and Lab: Animal Physiology	4
BI 363 & 363L	Genetics and Lab: Genetics	4
BI 350 & 350L	Comparative Vertebrate Anatomy and Lab: Comparative Vertebrate Anatomy	4
BI 354 & 354L	Developmental Biology and Lab: Developmental Biology	4
CH 161 & 161L	General Chemistry I and General Chemistry I Lab	4
CH 181 & 181L	General Chemistry II and General Chemistry II Lab	4
CH 271 & 271L	Organic Chemistry I and Organic Chemistry I Lab	4
CH 278 & 278L	Organic Chemistry II and Organic Chemistry II Lab	4
CH 401 & 401L	Biochemistry I and Biochemistry I Lab	4
CH 403 or BI 311	Biochemistry II General Biochemistry	3
MA 171	Calculus I	4
MA 172	Calculus II	4
MA 256	Elementary Probability and Statistics	3
PS 151	General Physics I	3
PS 153	General Physics II	3