



Medicine

Pathway Preparation Sheet 2016-2017

Medicine – What is it?

Physicians diagnose and treat illnesses and injuries. They examine patients, document medical histories, perform medical procedures, interpret tests, prescribe medications and advise patients how to prevent and manage disease. Many physicians practice family medicine, while others work in an area of specialization.

Areas of study in Medicine: Primary Care, Anesthesiology, Pediatrics, Geriatrics, Internal Medicine, Obstetrics and Gynecology, Psychiatry, Neurology, Oncology, Orthopedic Surgery, Radiology, Pharmacology, Cardiology, among many others.

Where does my path start?

You will complete an Associate of Science-Transfer (AS-T) Track 1 at Shoreline.

Use the AS-T Track 1 **Degree Planning Guide** to understand the requirements for graduation.

The next step is to complete a Bachelor’s degree at a four-year school, then apply to a Medical School.

Where can I go for help?

Program Faculty Advisors

chemistryadvising@shoreline.edu

Linda Kuehnert	206-546-4575	lkuehner@shoreline.edu	Rm 2821
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Joyce Fagel	206-546-6984	jfagel@shoreline.edu	Rm 5229

General Academic Advising

FOSS (5000) Building, Rm. 5229
206-546-4559
advising@shoreline.edu
www.shoreline.edu/advising

International Advising

9000 Building, Rm. 9302
206-546-4697
leadvisor@shoreline.edu
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For course information and entry codes, contact:

biologyadvising@shoreline.edu
chemistryadvising@shoreline.edu
mathadvising@shoreline.edu

Career Planning

www.shoreline.edu/job-career-services/

Where can I transfer?

The AS-T makes it possible for students to transfer to public and private colleges and universities in the U.S. with junior standing within a four-year Bachelor’s degree program (please see the AS-T Track 1 Degree Planning Guide for a list of schools) Students can transfer to any college or university to complete their bachelor’s degree before applying to a Medical School. Washington state institutions with medical schools are listed below.

- Pacific Northwest University of Health Sciences*
- University of Washington
- Washington State University (pending)

*Osteopathic Medical School located in Yakima, Washington

What can I do with a Doctoral Degree in Medicine?

During the fourth year of medical school students choose an area of practice, such as family medicine, or one of the many medical specialties. Some choose careers in research, teaching, writing, or public policy. The training, duties and salaries are different depending on the area of specialization.

Potential employers include: Hospitals, medical clinics, universities, pharmaceutical companies, medical equipment companies, the World Health Organization, government agencies, non-profit organizations and private practice. For more, please visit <http://www.shoreline.edu/counseling-services/career-counseling.aspx>.

What courses should I take?*

I. GENERAL EDUCATION REQUIREMENTS | 18 - 20 Credits

ENGL& 101
 ENGL& 102, 230, or CMST& 101
 One course in Multicultural Understanding
 Quantitative/Symbolic Reasoning (MATH &151)

II. DISTRIBUTION REQUIREMENTS | 15 Credits

One course in Humanities
 One course in Social Sciences (PSYC& 100 *strongly recommended*)
 A third course in either Humanities or Social Sciences

III. PRE-MAJOR PROGRAM I 54 – 59 Credits

Science	19.5 Credits	QTR	GR	CR
CHEM 171/181	Every quarter			6.5
CHEM 172/182	Win, Spr, Sum			6.5
CHEM 173/183	Spr, Sum, Fall			6.5

Additional Math*	10 Credits	QTR	GR	CR
MATH &152	Every quarter			5
MATH &163 or 211	Every quarter			5

* Very few medical schools require MATH &152 or &163, but the AS degree requires &152 and either &163 or 211. A statistics class such as MATH& 146 or 211 is highly recommended for all medical schools.

Major Science Sequences Select any **two** biology, chemistry, or physics sequences from the list below. Medical schools require all three sequences; you will take the remaining sequence after you transfer to university.

Biology		Algebra-Based Physics		Sequence 1	15 – 21 Credits	QTR	GR	CR
BIOL &211	Every Qtr 5 Cr.	PHYS &114	Fall 5 Cr.					
BIOL &212	Win, Spr 5 Cr.	PHYS &115	Win 5 Cr.					
BIOL &213	Spr, Sum 5 Cr.	PHYS &116	Spr 5 Cr.					
Calculus-based Physics		Chemistry		Sequence 2	15 – 21 Credits	QTR	GR	CR
PHYS &221	Fall, Win 5.5 Cr.	CHEM &241/271	Fall, Win 4/3 Cr.					
PHYS &222	Win, Spr, Sum 5.5 Cr.	CHEM &242/272	Win, Spr 4/3 Cr.					
PHYS &223	Win, Spr 5.5 Cr.	CHEM &243/273	Spr 4/3 Cr.					
Electives -- Biochemistry				Electives		QTR	GR	CR
<i>These courses are not required for the AS-T degree, but biochemistry is necessary to prepare for taking the MCAT exam and medical school curriculum. Most students take biochemistry at the university after transfer..</i>				CHEM 255	Win, online only			
				CHEM 256	Spr, online only			

More information about programs in Medicine

U.S. medical schools require a Bachelor’s degree for admission. Provided students complete the required prerequisites, medical schools allow students to study any academic major for admissions. Students are encouraged to choose a major which they find of value and interest whether or not they go to medical school.

Medical schools look for personal attributes, e.g., a breath of interests, perseverance, curiosity, integrity, responsibility, communication skills and multicultural understanding and skills. Pre-med students should develop a broad understanding of the U.S. health care system and volunteer or work in the health care field. The admission process for medical school takes a full year. For more information:

- SCC handout “Preparing for Medical School”;
- <http://sccprehealthnotes.wordpress.com>; (subscribe to this blog for current events and other announcements)
- www.aamc.org and www.aacom.org

University of Washington - Seattle

M.D. – Medical Doctor

Course requirements: 6 quarters of Social Science or Humanities; 9 quarters of Chemistry and Biology; and 3 quarters of Algebra or Calculus based Physics. More info at <http://www.uwmedicine.org/education/md-program/admissions/applicants>. Applicants must be U.S. citizens or permanent residents; preference is given to Washington, Wyoming, Alaska, Montana and Idaho residents.

Washington State University – Spokane

Washington State University is developing a new medical school in Spokane, which will be an M.D.-Medical Doctor. More info at <https://medicine.wsu.edu>.

Pacific Northwest University of the Health Sciences – Yakima

D.O. Doctor of Osteopathic Medicine

Course requirements: 9 credits of English composition and literature; 12 credits of general chemistry; 12 credits or organic chemistry; 12 credits of physics; 18 credits of biological sciences. More info at <http://www.pnwu.edu/prospective-students/admissions/>

**** This unofficial guide is intended to support you as you prepare for your major. Please consult with an advisor and your chosen four-year school(s), as program and admissions requirements vary and may change without notice.**