



Diagnostic Ultrasound / Radiation and Imaging Sciences

Major Preparation Sheet 2016-2017

What is Diagnostic Ultrasound/ Radiation and Imaging Sciences?

Diagnostic Ultrasound is a non-invasive medical procedure that uses special equipment with high-frequency sound waves to form an image of body tissue. Radiation and Imaging Sciences encompasses X-ray exams, Magnetic Resonance Imaging (MRI) and Computed Tomography (CT Scans) to perform and develop diagnostic imagery. Diagnostic Ultrasound, Radiation and Imaging Sciences are essential exams for physicians to assess and diagnose medical conditions. Sonographers, X-ray and Radiation Technicians work closely with Radiologists, Cardiologists, Obstetricians, Orthopedic Surgeons and other physicians to help treat illnesses and injuries.

Where does my path start?

There are two paths to transfer for career training. You can complete an Associate of Arts – Direct Transfer Agreement and include the prerequisite courses as indicated here and transfer to a Bachelor’s degree program. Use the AA-DTA Degree Planning Guide to understand the requirements for graduation.

Or, you can obtain professional certification at a community college that offers the Associate in Diagnostic Ultrasound. These programs do not require that you complete the AA-DTA before transfer, but do have prerequisite courses.

Areas of Study in Diagnostic Ultrasound/ Radiation and Imaging Sciences: Cell Biology, Anatomy and Physiology, Physics, Pathophysiology, Echocardiography, Cardiac and Vascular Evaluation, Prenatal Evaluation, Imaging Instrumentation, Patient Positioning, Exam Techniques, Radiation Safety, Radiation Therapy, Professional and Medical Ethics.

Where can I go for help?

Diagnostic Ultrasound/ Radiation and Imaging Sciences Faculty Advisors

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Where can I transfer?

Students can transfer to a number of public and private colleges and universities in the U.S., but the Direct Transfer Agreement applies only within Washington. The following colleges in Washington offer a degree in Diagnostic Ultrasound or Radiation and Imaging Sciences. There are specific courses required for admission. Contact the Diagnostic Ultrasound or Radiation and Imaging Sciences department at your chosen school(s) for more information.

Associate in Diagnostic Ultrasound or Radiation and Imaging Sciences:

Bellevue College	Columbia Basin College	Spokane Community College	Tacoma Community College
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- Bellevue College offers a Bachelor in Applied Sciences in Radiation and Imaging Sciences for those who are certified professionals in the field.
- Seattle University offers a Bachelor of Science in Diagnostic Ultrasound (enter with AA degree and prerequisites)

What can I do with a Degree in Diagnostic Ultrasound/Radiation and Imaging Sciences?

Students who major in Diagnostic Ultrasound or Radiation Sciences develop the knowledge and skills to perform highly technical imaging procedures. In addition, technicians must have strong critical thinking, problem solving and communications skills to work as part of a health care team. Some technicians specialize in radiation therapy to treat cancer and other diseases.

Potential employers include: Medical imaging clinics, hospitals, private physician’s office, medical centers and other health care facilities. For more, please visit <http://www.shoreline.edu/counseling-services/career-counseling.aspx>

What courses should I take?*

Below are recommendations for fulfilling the AA-DTA requirements if you are planning to pursue a degree in Diagnostic Ultrasound.

Strongly Recommended
 These are commonly **required** for admission. Check with your chosen program(s) to confirm.

Other Recommendations
 These courses are well-matched with this major, but are not commonly required for admission.

I. GENERAL EDUCATION REQUIREMENTS		
Quant. and Symb. Reasoning	MATH &141	MATH &148 or &151 and &152 (for Seattle University)
II. DISTRIBUTION REQUIREMENTS		
Humanities	--	
Natural Sciences	CHEM &121, BIOL &211 PHYS &114 <i>Fall only</i>	
Social Sciences		SOC &101 (For Bellevue College)
III. GENERAL ELECTIVES		
	BIOL &241, &242	PHYS &115 (for Seattle University) HIIM 134 (for Bellevue College)

What does your chosen two-year or four-year school require?

Before choosing classes, become familiar with the program where you want to apply: visit the website, email the department, and/or speak with a Shoreline advisor. Below are examples from Washington schools with different admissions and graduation requirements. Check with the school for world language requirements. (Non-native speakers of English are often exempt from this requirement.)

School	Degrees	Requirements	SCC Courses
Bellevue College	Associate Degree in Diagnostic Ultrasound Technology	Attendance at an information meeting is required for eligibility to apply to the program. An AA-DTA is not required.	ENGL &101, &102, MATH &141, SOC &101 (or other Bellevue approved cultural diversity course), BIOL &211 (CHEM &121 is a prerequisite), &241, &242, PHYS 110 or &114, and HIIM 134
Seattle University	B.S. in Diagnostic Ultrasound with two tracks: Cardiovascular and General Vascular	A 2.5 GPA or higher is required in prerequisite math and science courses for admission, and volunteer/paid work experience in the health care field in strongly recommended.	MATH &148 or &151 and &152, BIOL &211 (CHEM &121 is a prerequisite), &241, &242, PHYS &114, &115. One additional biology course (BIOL &212 or &260 recommended). MATH &146 is recommended

**** 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.**