



# Diagnostic Ultrasound / Radiation and Imaging Sciences

Major Preparation Sheet 2017-2018

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## 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, with this sheet, 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.

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## 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.

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## Where can I go for help?

### Diagnostic Ultrasound/ Radiation and Imaging Sciences Faculty Advisors

**John Moffat** 206-546-4569  
[jmoffat@shoreline.edu](mailto:jmoffat@shoreline.edu) Rm 2809

**Kira Wennstrom** 206-546-4578  
[kwennstrom@shoreline.edu](mailto:kwennstrom@shoreline.edu) Rm 2816

**Joyce Fagel** 206-546-6984  
[jfagel@shoreline.edu](mailto:jfagel@shoreline.edu) Rm 5229

### General Academic Advising

FOSS (5000) Building, Rm. 5229  
206-546-4559  
[advising@shoreline.edu](mailto:advising@shoreline.edu)  
[www.shoreline.edu/advising](http://www.shoreline.edu/advising)

### Career Planning

[www.shoreline.edu/job-career-services/](http://www.shoreline.edu/job-career-services/)

### International Advising

9000 Building, Rm. 9302  
206-546-4697  
[leadvisors@shoreline.edu](mailto:leadvisors@shoreline.edu)  
[www.shoreline.edu/international/advising/](http://www.shoreline.edu/international/advising/)

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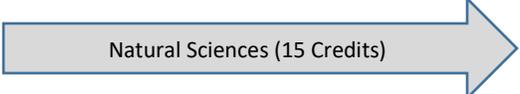
## What can I do with a Degree in Diagnostic Ultrasound/Radiation and Imaging Sciences?

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>

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**What courses should I take?\***

 <p>General Education Requirements (20 Credits)</p>	<p><b>Required:</b> ENGL&amp; 101; ENGL&amp; 102; One course in Multicultural Understanding; One course in Quantitative/Symbolic Reasoning</p> <p><b>Strongly Recommended:</b> MATH&amp; 141</p> <p><b>Recommended:</b> MATH&amp;148 or 151 and 152 (for Seattle University)</p>
 <p>Natural Sciences (15 Credits)</p>	<p><b>Strongly Recommended:</b> CHEM&amp; 121, BIOL&amp; 211, PHYS&amp; 114 (Fall only)</p>
 <p>Social Sciences (15 Credits)</p>	<p><b>Recommended:</b> SOC&amp; 101 (for Bellevue college)</p>
 <p>General Electives (Minimum 25 Credits)</p>	<p><b>Strongly Recommended:</b> BIOL&amp; 241 and 242</p> <p><b>Recommended:</b> PHYS&amp; 115 (for Seattle University), HIIM 134 (for Bellevue College)</p>

**Where can I transfer and what does my 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	Transfer Information	School	Transfer Information
<a href="#">Bellevue College</a>	<a href="http://tinyurl.com/gwnh2lw">http://tinyurl.com/gwnh2lw</a>	<a href="#">Spokane Falls Community College</a>	<a href="http://tinyurl.com/lvbkq2g">http://tinyurl.com/lvbkq2g</a>
<a href="#">Columbia Basin College</a>	<a href="http://tinyurl.com/mhaq84o">http://tinyurl.com/mhaq84o</a>	<a href="#">Tacoma Community College</a>	<a href="http://tinyurl.com/j778h7e">http://tinyurl.com/j778h7e</a>
<a href="#">Seattle University</a>	<a href="http://tinyurl.com/z3kjpem">http://tinyurl.com/z3kjpem</a>		

- 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)

**\*\* 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.**