Preparing for Diagnostic Ultrasound/Radiation and Imaging Sciences
Associate in Arts—Direct Transfer Agreement (AA—DTA)

Program Information
Length of Program: 90 Credits
Completion Award: A.A. Degree

Program Faculty Advisors:
Guy Hamilton
206-546-4786 ghamilton@shoreline.edu Rm 2809
Kira Wennstrom
206-546-4578 kwennstrom@shoreline.edu Rm 2816
Joyce Fagel
206-546-6984 jfagel@shoreline.edu Rm 2814

Program Description
The 90 credit Associate in Arts transfer degree is designed to meet the general education requirements at Washington State four-year institutions and prepares students for a Bachelor of Science degree in Diagnostic Ultrasound or Radiation and Imaging Science. For more detailed information:
http://www.shoreline.edu/science/prehealth/
http://prehealthblog.shoreline.edu

Diagnostic Ultrasound/Radiation and Imaging Sciences—What is it?
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.

Areas of Study in Diagnostic Ultrasound: 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.

Career Opportunities—What can I do with a Bachelor’s Degree in Diagnostic Ultrasound or 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 career information and resources at www.shoreline.edu/advising/counseling-services/career-counseling.aspx

Transfer Possibilities—Where can I transfer?
The AA—DTA makes it possible for students to transfer to a number of public and private colleges and universities in the U.S. with junior standing. Washington state institutions are listed below.

Public Institutions
Bellevue College (Assoc, B.A.S.)
Columbia Basin College (Assoc)
Spokane Community College (Assoc)
Tacoma Community College (Assoc)

Private Institutions
Seattle University (B.S.)
**STUDENT INFORMATION**

Name: 
Student I.D. No.: – – 
Program/Major: 
Specialty (if applicable): 

- Complete an A.A. or A.S. degree
- Prepare for transfer only—No degree
- High school completion program
- Transferred from another college
- Completed transfer credit evaluation

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Notes and recommendations:

The AA—DTA, known as the direct transfer degree, is an agreement between Washington State community colleges and baccalaureate institutions. The AA—DTA transfers as a package to most baccalaureate colleges and universities in Washington, satisfying most, if not all, of the lower division general education requirements and granting junior standing; it does not guarantee admission. The AA—DTA requires 90 quarter credits in college-level courses numbered 100 or above with a cumulative GPA of 2.0 or higher. Each individual course must have a minimum grade of 1.0. In addition, this transfer guide identifies specific courses to take within the degree to help students prepare for entrance into baccalaureate programs in Diagnostic Ultrasound or Radiation and Imaging Sciences. See the reverse side for a complete listing of courses that fulfill the general education and distribution requirements.

### GENERAL EDUCATION CORE REQUIREMENTS | 20 Credits

Courses used in Gen Ed Core may not be used for distribution.

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<th>Course</th>
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<td>English&amp; 101</td>
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<td>English&amp; 102</td>
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<td>Multicultural Understanding</td>
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<td>Quantitative/Symbolic Reasoning : MATH&amp; 141</td>
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### DISTRIBUTION REQUIREMENTS

Courses list on other side.

#### Humanities  | 15 Credits

Select from at least two different disciplines. Maximum of 5 credits allowed in Performance/Skills. No more than 5 credits in a world language at the 100 level.

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#### Math–Science  | 15 Credits

Select from at least two different disciplines. Must include at least one lab science. 10 credits required in physical, earth and/or biological sciences.

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<td>CHEM&amp; 121</td>
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<td>BIOL&amp; 211</td>
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<td>PHYS&amp; 114 (Fall only)</td>
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#### Social Sciences  | 15 Credits

Select from at least two different disciplines.

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<td>SO&amp; 101 (for Bellevue College)</td>
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#### ELECTIVES | at least 25 Credits

A maximum of 15 credits allowed for restricted/vocational courses, and a maximum of 3 credits allowed in Physical Education.

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<td>BIOL&amp; 231</td>
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<td>BIOL&amp; 232</td>
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<tr>
<td>PHYS&amp; 115 (for Seattle U)</td>
<td>Win only</td>
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<tr>
<td>MATH&amp; 148 or 151 &amp; 152 (for SU)</td>
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#### SELECT WASHINGTON STATE COLLEGE/UNIVERSITY MAJOR PREPARATION AND RECOMMENDATIONS

Several community colleges including Bellevue offer an Associate in Arts (AA) degree in Diagnostic Ultrasound. Students are not required to complete this A.A.-DTA degree for admission to the program. Program prerequisites at Bellevue: ENGL& 101, 102, MATH&141, SOC& 101 (or other Bellevue approved cultural diversity course), BIOL&211 (CHEM& 121 is a prerequisite), 231, 232, PHYS 110 or &114, and HIIM 134. All applicants must attend an information session.

#### Seattle University

B.S. in Diagnostic Ultrasound with two tracks: Cardiovascular and General Vascular

Seattle University has the only baccalaureate Diagnostic Ultrasound program in Washington State accessible with a transfer Associates Degree. Core program requirements: — MATH& 148 or MATH& 151 and 152, BIOL& 211 (CHEM& 121 is a prerequisite), 231, 232, PHYS 110 or &114, and HIIM 134. 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.

#### Bellevue College

B.A.S. in Radiation and Imaging Sciences; A.A. degree in Diagnostic Ultrasound

The B.A.S. in Radiation and Imaging Sciences is designed for certified professionals working in radiological technology, diagnostic ultrasound, radiation therapy or nuclear medicine who would like to earn a bachelor’s degree for career advancement. For more information: [http://bellevuecollege.edu/health/imaging/](http://bellevuecollege.edu/health/imaging/)
I. GENERAL EDUCATION
CORE REQUIREMENTS [20 CR]

ENGLISH—10 CR
English & 101
English & 102

MULTICULTURAL UNDERSTANDING—5 CR
Art & 105
Communication Studies 203, 285
Gender and Women’s Studies 284
History & 245
Multicultural Studies & 105

QUANTITATIVE | SYMBOLIC REASONING—5 CR
Math & 107*, &111, &141, &142,* &146*, &148, &151, &152,* &163,* &171*, 207, 208, 211, &264
Philosophy & 120*

*Students planning to transfer to the University of Washington must consult Math Advising, mathadvising@shoreline.edu

II. DISTRIBUTION
AREA REQUIREMENTS [45 CR]

HUMANITIES—15 CR
Select from at least two different disciplines. No more than 5 credits allowed in Performance Skills/Applied Theory. No more than 5 credits in a world language at the 100 level.

General Humanities
American Ethnic Studies 106
American Sign Language & 121, &122, * &123, &221, &222, &223
Art & 100, 105, 234
Art History & 105, 204, 210, 224, 225, 226
Chinese & 121, &122, &123
Cinema & 201
Communication Studies & 101, &102, 203, &210, &220, 285
Drama & 101
English & 111, &112, &113, 154, 200, 207, &220, &226, &228, 229, 236, &244, &245, &246, 247, 248, 257, 265, 271, 272, 278, 282, 287, 288, 289
French & 121, &122, &123
Humanities & 111, &112, &113, 140, 275

Japanese & 121, &122, &123, &221, &222, &223
Music 100, &105, 106, 108, 109, 141, &142, &143, 150, 200, 206, 224, &241, &242, &243
Philosophy & 101, 102, &115, 210, 230, 240, 248, 267
Spanish & 121, &122, &123, &221, &222, &223

Performance Skills/Applied Theory—5 CR Max.
Art & 109, 110, 121-123, 131-133, 144-146, 250-256, 260, 265, 271-273
Communication Studies & 140, &230, 244, 247, 249
Drama 144-146, 167-169, 207-209, 222, 255
Music 114, 115, 118-120, 135, 136, 140, 144, 146, 147, 150-156, 161-167, 170, 175, 180, 184, 196, 204, 205, 207, 210, 211, 212, 225, 226, 251-253, 264, 268, 270, 280, 284, 296

NATURAL SCIENCES—15 CR
Select from at least two different disciplines. 10 credits required in Physical, Earth and/or Biological Sciences with at least one laboratory science.

Physical, Earth, Biological Sciences—10 CR
Laboratory Sciences—5 CR Min.
Astronomy & 101
Biology 107, 124, 126, 144, &211, &212, &213, &231, &232, 244, 249, &260
Environmental Science & 101, 202
Geography & 203, 204
Geology & 101, &110, &115, &208
Oceanography & 101
Physics 110, &114, &115, &116, &221, &222, &223

Non-Laboratory Sciences
Anthropology & 205
Biology 110, 150, &170, 270
Chemistry & 139, 255
Environmental Science & 100
Geology 107
Psychology 202

Other Science Courses
5 CR Max.
Math & 107, 111, &141, &142, &146, &148, &151, &152, &163, &171, 207, 208, 211, &264
Nutrition & 101
Philosophy & 120

SOCIAL SCIENCES—15 CR
Select from at least two different disciplines.
American Ethnic Studies 119, 215, 229
Anthropology & 100, &204, &206, &207, 215
Business & 101
Child Advocacy Studies 102, 202, 285
Communication Studies & 102
East Asia 218
Economics 100, &201, &202
Gender and Women’s Studies 205, 215, 284, 285, 286, 288
Geography & 100, &200, 250, 277
International Studies 101, 200, 201, 205
Multidisciplinary Studies & 105, 205, 210, 238, 250
Philosophy & 101, 102, 115, 210, 230, 240, 248, 265, 267
Political Science & 101, &202, &203, 221, 276
Psychology & 100, &200, 206, 207, 208, 209, 210, &220, 225, 236, 245
Sociology & 101, 102, 112, &201, 202, 250, 288

III. GENERAL ELECTIVES [25 CR]
A minimum of 25 additional college-level credits numbered 100 or above is required for electives. Developmental courses and courses numbered below 100 may not be used. Electives may include any course listed in the distribution areas or in the Elective Courses section of the 2015-16 catalog. A maximum of 15 credits from the Restricted Electives course list of the catalog may be included and a maximum of 3 credits in Physical Education.

Notice: Planning guides are intended to guide students toward completing degree requirements. They are not intended to communicate admissions requirements of 4-year institutions. Students are strongly urged to consult with an advisor, college/university admissions staff, and the catalog of the 4-year institution to which they plan to transfer. Other conditions and restrictions may also apply.