

STUDENT NAME		SID #	
PROGRAM CHAIR		DATE	

PROGRAM REQUIREMENTS			Requested Substitution/Transfer Credits (if applicable)			Completed		
Course	Course Title	CR	College/University	Course	CR	Grade	Quarter	Year
CORE COURSEWORK								
BIOL& 241	Human Anatomy & Physiology I	6						
BIOL& 242	Human Anatomy & Physiology II	6						
HPRO 120	Medical Terminology	3						
MATH& 141	Precalculus I	5						
PHYS& 100	Physics – Basic Concepts	5						
	<i>Choose 5 Credits from the following</i>	5						
ENGL 201	The Research Paper (5 Cr)							
ENGL& 235	Technical Writing (5 Cr)							
	Five credits from BC approved Cultural Diversity courses (5 Cr)	5						
GENERAL ULTRASOUND								
FIRST YEAR – FALL QUARTER								
DUTEC 100	Introduction to Diagnostic Medical Sonography	3						
DUTEC 105	Pathophysiology I	3						
DUTEC 107	Human Cross–Section Anatomy	7						
DUTEC 130	Small Parts with Vasculature Sonography	3						
DUTEC 170	Ultrasound Physics and Instrumentation I	3						
FIRST YEAR – WINTER QUARTER								
DUTEC 106	Pathophysiology II	3						
DUTEC 110	Abdominal Scanning & Techniques	5						
DUTEC 135	General Ultrasound Lab	3						
DUTEC 171	Ultrasound Physics & Instrumentation II	3						
FIRST YEAR – SPRING QUARTER								
DUTEC 112	Pathophysiology III	3						
DUTEC 120	Obstetrics & Gynecological Sonography	5						
DUTEC 145	General Ultrasound Lab II	4						
DUTEC 160	Vascular Ultrasound Technology	3						
FIRST YEAR – SUMMER QUARTER								
DUTEC 102	Practical Aspects of Sonography	3						
DUTEC 113	Pathophysiology IV	3						
DUTEC 165	General Ultrasound Lab III	3						
DUTEC 180	Advanced Studies: Obsterics	3						
SECOND YEAR – FALL QUARTER								
DUTEC 210	Clinical Practicum I	13						
SECOND YEAR – WINTER QUARTER								
DUTEC 220	Clinical Practicum II	13						
SECOND YEAR – SPRING QUARTER								
DUTEC 230	Clinical Practicum III	13						
SECOND YEAR – SUMMER QUARTER								
DUTEC 240	Clinical Practicum IV	13						
GENERAL ULTRASOUND GRAND TOTAL		112						
VASCULAR TECHNOLOGY ULTRASOUND								
FIRST YEAR – FALL QUARTER								
DUTEC 100	Introduction to Sonography	3						
DUTEC 105	Pathophysiology I	3						

PROGRAM REQUIREMENTS			Requested Substitution/Transfer Credits (if applicable)					
Course	Course Title	CR	College/University	Course	CR	Grade	Quarter	Year
DUTEC 107	Human Cross–Section Anatomy	7						
DUTEC 130	Small Parts with Vasculature Sonography	3						
DUTEC 170	Ultrasound Physics and Instrumentation I	3						
FIRST YEAR – WINTER QUARTER								
DUTEC 106	Pathophysiology II	3						
DUTEC 110	Abdominal Scanning & Techniques	5						
DUTEC 135	General Ultrasound Lab	3						
DUTEC 171	Ultrasound Physics & Instrumentation II	3						
FIRST YEAR – SPRING QUARTER								
DUTEC 112	Pathophysiology III	3						
DUTEC 120	Obstetrics & Gynecological Sonography	5						
DUTEC 146	Vascular Technology Lab I	4						
DUTEC 160	Vascular Ultrasound Technology	3						
FIRST YEAR – SUMMER QUARTER								
DUTEC 102	Practical Aspects of Sonography	3						
DUTEC 113	Pathophysiology IV	3						
DUTEC 166	Vascular Technology Lab II	3						
DUTEC 182	Advanced Studies: Vascular Technology	3						
SECOND YEAR – FALL QUARTER								
DUTEC 210	Clinical Practicum I	13						
SECOND YEAR – WINTER QUARTER								
DUTEC 220	Clinical Practicum II	13						
SECOND YEAR – SPRING QUARTER								
DUTEC 230	Clinical Practicum III	13						
SECOND YEAR – SUMMER QUARTER								
DUTEC 240	Clinical Practicum IV	13						
VASCULAR TECHNOLOGY ULTRASOUND GRAND TOTAL		112						
ECHOCARDIOGRAPHY ULTRASOUND								
FIRST YEAR – FALL QUARTER								
DUTEC 100	Introduction to Diagnostic Medical Sonography	3						
DUTEC 105	Pathophysiology I	3						
DUTEC 107	Human Cross–Section Anatomy	7						
DUTEC 125	Congenital Heart Disease	3						
DUTEC 170	Ultrasound Physics and Instrumentation I	3						
FIRST YEAR – WINTER QUARTER								
DUTEC 106	Pathophysiology II	3						
DUTEC 137	Echocardiography Lab I	3						
DUTEC 150	Basic Echocardiography	4						
DUTEC 171	Ultrasound Physics & Instrumentation II	3						
FIRST YEAR – SPRING QUARTER								
DUTEC 147	Echocardiography Scanning Lab II	4						
DUTEC 155	Echocardiography	5						
DUTEC 160	Vascular Ultrasound Technology	3						
DUTEC 200	Stress, EKG and Auscultation for Echo	4						
FIRST YEAR – SUMMER QUARTER								
DUTEC 102	Practical Aspects of Sonography	3						
DUTEC 167	Echocardiography Scanning Lab III	3						
DUTEC 181	Advanced Studies: Echocardiography	3						
DUTEC 190	Pediatric Echocardiography	3						

PROGRAM REQUIREMENTS			Requested Substitution/Transfer Credits (if applicable)					
Course	Course Title	CR	College/University	Course	CR	Grade	Quarter	Year
SECOND YEAR – FALL QUARTER								
DUTEC 210	Clinical Practicum I	13						
SECOND YEAR – WINTER QUARTER								
DUTEC 220	Clinical Practicum II	13						
SECOND YEAR – SPRING QUARTER								
DUTEC 230	Clinical Practicum III	13						
SECOND YEAR – SUMMER QUARTER								
DUTEC 240	Clinical Practicum IV	13						
ECHOCARDIOGRAPHY ULTRASOUND GRAND TOTAL		112						

Diagnostic Ultrasound Technology uses energy in the form of ultrasound to diagnose pathology and assess fetal well-being. The Associate of Arts degree in Diagnostic Ultrasound provides training in ultrasound patient services and related diagnostic techniques. The program offers training in the following specialty tracks: General (Abdomen & OB/GYN); Vascular Technology; and Echocardiography. Students must declare their specialty track of sonography practice at time of application. The program uses a selective-admissions process, with admissions guidelines published annually. Graduates are eligible to apply to take the American Registry of Diagnostic Medical Sonography and the American Registry of Radiologic Technology examination. It is accredited by the Commission on Accreditation of Allied Health Education Programs.

Ultrasonography, commonly called sonography, is a diagnostic medical procedure that uses high frequency sound waves (ultrasound) to produce dynamic visual images of organs, tissues, or blood flow inside the body. Sonography can be used to examine many parts of the body, such as the abdomen, breasts, female reproductive system, prostate, heart, and blood vessels. Sonography is increasingly being used in the detection and treatment of heart disease, heart attack, and vascular disease that can lead to stroke. It is also used to guide fine needle, tissue biopsy to assist in taking a sample of cells from an organ for lab testing (for example, a test for cancer in breast tissue). Unlike X-rays, sonography is a radiation-free imaging modality.

Sonographers have extensive, direct patient contact that may include performing some invasive procedures. They must be able to interact compassionately and effectively with people who range from healthy to critically ill.

LEARNING OUTCOMES

Degree recipients should possess the skills & abilities described below:

- Function in the capacity as an entry-level sonographer; acquiring diagnostic ultrasound images of the patient's anatomy to aid the physician in the diagnosis of various pathological conditions
- Act in the best interests of the patient and the institution through the prudent use of safety measures, techniques and equipment to prevent harm to patient, facility or oneself
- Act within the Ultrasonography Scope of Practice as outlined by the Society of Diagnostic Medical Sonographers
- Exercise independent judgment and discretion in the technical performance of medical imaging procedures
- Assimilate pertinent clinical information, ultrasound findings and knowledge of normal and abnormal conditions into a cohesive and complete ultrasound examination for interpreting physicians
- Communicate effectively with patients, family members, hospital staff, and the general public, and demonstrate professionalism in all actions and communications

FOR MOST UP-TO-DATE INFORMATION, GO TO:

www.bellevuecollege.edu/programs/degrees/proftech/dutec/#dutecdegree

CULTURAL DIVERSITY REQUIREMENT (CDR)

Below is a complete listing of all the courses that meet the college's Cultural Diversity requirements for the Associate Transfer Degrees. Classes will be applied toward either the Humanities, Social Science, Natural Sciences or electives.

Transferable Courses:

- **Anthropology** 100, 104, 106, 108, 117, 180, 200, 206, 208, 209, 210, 211, 212, 214, 219, 220, 222, 224, 235, 260, 265;
- **Art** 103
- **Cultural and Ethnic Studies** 100, 101, 106, 109, 120, 121, 130, 140, 152, 180, 200, 201, 203, 205, 210, 241, 257;
- **Communication Studies** 134, 250, 280
- **French** 131, 132, 133, 231, 232, 233
- **Geography** 123, 200, 277
- **History** 185, 246
- **International Studies** 123
- **Music** 117
- **Philosophy** 102, 145, 265
- **Psychology** 250
- **Sociology** 101, 120, 121, 122, 201, 205, 210, 215, 222, 230, 248, 249, 253, 254, 257, 260, 262, 264, 267, 268, 275

Restrictive Electives:

- **Allied Health** 140
- **Business** 120, 241
- **Criminal Justice** 242
- **Education** 150, 240, 286
- **Human Development** 140
- **Marketing Management** 200
- **Nursing** 290

For more information, go to: www.bellevuecollege.edu/programs/degrees/culturaldiversity/