

DIAGNOSTIC MEDICAL SONOGRAPHY

The field of diagnostic medical sonography utilizes high frequency sound waves to image and evaluate organs and soft tissue structures of the body. The diagnostic medical sonographer is a skilled person qualified by academic and clinical education to perform sonographic examinations under the supervision of a qualified physician. The sonographer performs a variety of diagnostic examinations, including evaluations of the abdomen, superficial structures, peripheral blood vessels, as well as studies of the pregnant and non-pregnant female patient. The skilled sonographer has a unique and vital role in the diagnostic process, and the profession continues to offer many excellent opportunities for employment.

Program Description

SJU offers a two-year curriculum of full-time study in diagnostic medical sonography leading to an Associate in Applied Science degree. The program also offers an academic certificate program in diagnostic medical sonography for those who already have a degree. Students receive theoretical and clinical instruction in all aspects of diagnostic ultrasound in preparation for entry-level positions as diagnostic medical sonographers. Upon satisfactory completion of program requirements, graduates are eligible to take the American Registry for Diagnostic Medical Sonography (ARDMS) examinations in physics, abdomen, and obstetrics/gynecology.

The faculty of the Diagnostic Medical Sonography program believes in the potential for the individual to grow in knowledge as well as in professional importance. The profession of diagnostic medical sonography is recognized as an integral part of the diagnostic medical team. Through the practiced skills of the sonographer, both the patient and the physician are assisted in the detection of disease if present.

Education is a process of learning through a balance of didactic and clinical instruction that adequately prepares the individual equally for registry examinations and employment. Through the flexible design of our program, we strive to achieve this goal and take advantage of the full learning potential of each individual.

Program Mission

The mission of the Diagnostic Medical Sonography program is to meet the needs of the health care community by providing qualified individuals to become competent diagnostic medical sonographers.

Learning Goals and Objectives

Goal 1: To provide all students with didactic and clinical education, including hands-on, practical scanning experience.

Goal 2: To prepare competent entry-level sonographers in the cognitive (knowledge), psychomotor (skills) and affective (behavior) learning domains for the following concentration(s) it offers: Abdomen sonography-extended and Obstetrics and gynecology sonography

Goal 3: Function as an integral part of the diagnostic medical imaging team, providing patient services efficiently and in a professional, sensitive manner.

Goal 4: Incorporate concepts learned through classroom instruction and clinical practice, ensuring accurate, meaningful sonographic evaluations.

Goal 5: Serve as a resource and an advocate for the use of ultrasound in medicine.

Goal 6: Demonstrate a commitment to the professional role through lifelong learning.

Associate Requirements

Code	Title	Hours
General Education		
ENG 101	Craft of Language	3
BIO 175	A&P for Nursing & Allied Health	4
BIO 175L	A&P Nursing & Allied Health Lab	0
BIO 176	A&P Nursing & Allied Health II	4
BIO 176L	A&P Nursing & Allied Hlth II Lab	0
PSY 100	Introductory Psychology	3
MAT 112	College Algebra	3
CSS 101	College Studies Seminar	3
HSC 390	Medical Terminology	1
PHY 200	Survey of Physics	3
PHY 200L	Survey of Physics Laboratory	1
SOC 101	Intro to Sociology	3
or SOC 270	Special Topics	
INT 103	Methods of Patient Care	1
PHL 490	Ethical & Legal Dimen Hlth Sci	1
Diagnostic Medical Sonography		
DMS 111	Intro to Sonography	1
DMS 112	Abdominal Sonography I	3
DMS 113L	Ultrasound Lab I	1
DMS 221	Ultrasound Physics	3
DMS 222	Abdominal Sonography II	2
DMS 223	Ob/Gyn Sonography I	3
DMS 224	Ultrasound Clinical I	4
DMS 225L	Ultrasound Lab II	1
DMS 226	Ob/Gyn Sonography II	3
DMS 227	Common Vascular Procedures	1
DMS 229L	Ultrasound Lab III	1
DMS 230	Superficial Structures	2
DMS 231	Ultrasound Seminar	2
DMS 233	US Clinical II	6
DMS 234	US Clinical III	4
Total Hours		67

Certificate Requirements

Code	Title	Hours
DMS 111	Intro to Sonography	1
DMS 112	Abdominal Sonography I	3
DMS 113L	Ultrasound Lab I	1
DMS 221	Ultrasound Physics	3
DMS 222	Abdominal Sonography II	2
DMS 223	Ob/Gyn Sonography I	3
DMS 224	Ultrasound Clinical I	4

DMS 225L	Ultrasound Lab II	1
DMS 226	Ob/Gyn Sonography II	3
DMS 227	Common Vascular Procedures	1
DMS 229L	Ultrasound Lab III	1
DMS 230	Superficial Structures	2
DMS 231	Ultrasound Seminar	2
DMS 233	US Clinical II	6
DMS 234	US Clinical III	4
HSC 390	Medical Terminology	1
INT 103	Methods of Patient Care	1
PHL 490	Ethical & Legal Dimen Hlth Sci	1
Total Hours		40

Summer

Associate Degree and Certificate Program

DMS 234	US Clinical III	4
Hours		4
Total Hours		62-63

Typical Course Sequence

Course	Title	Hours
First Year		
Fall		
Associate Degree Only		
BIO 175 & 175L	A&P for Nursing & Allied Health and A&P Nursing & Allied Health Lab	4
ENG 101	Craft of Language	3
CSS 101	College Studies Seminar	3
MAT 112	College Algebra	3
PSY 100	Introductory Psychology	3
Hours		16
Spring		
Associate Degree Only		
BIO 176 & BIO 175L	A&P Nursing & Allied Health II and A&P Nursing & Allied Health Lab	4
PHY 200	Survey of Physics	3
SOC 101 or SOC 270	Intro to Sociology or Special Topics	3
INT 103	Methods of Patient Care	1
HSC 390	Medical Terminology	1-2
Hours		12-13
Summer		
Associate Degree and Certificate Program		
DMS 111	Intro to Sonography	1
DMS 112	Abdominal Sonography I	3
PHL 490	Ethical & Legal Dimen Hlth Sci	1
DMS 113L	Ultrasound Lab I	1
Hours		6
Second Year		
Fall		
Associate Degree and Certificate Program		
DMS 221	Ultrasound Physics	3
DMS 222	Abdominal Sonography II	2
DMS 223	Ob/Gyn Sonography I	3
DMS 227	Common Vascular Procedures	1
DMS 225L	Ultrasound Lab II	1
Hours		10
Spring		
Associate Degree and Certificate Program		
DMS 226	Ob/Gyn Sonography II	3
DMS 233	US Clinical II	6
DMS 230	Superficial Structures	2
DMS 229L	Ultrasound Lab III	1
DMS 231	Ultrasound Seminar	2
Hours		14