

Springfield Technical Community College
School of Health & Patient Simulation

**DMS-201 & 201L Introduction to Sonographic Procedures
Fall 2026**

Professor:	Eun Soo Lee, M.Ed., R.D.M.S., R.V.T.
Office Location:	Office: 20/302E, Lab: 20/328
Office Phone:	413.755.4915
Email Address:	elee@stcc.edu
Semester Credits:	3
Meeting days and times:	Mondays and Wednesdays 10:10 am – 12:05 pm
Office Hours:	Mondays 9 am – 10 am

Required Textbook

None

Reference Textbook/Resource

Diagnostic Medical Sonography: Abdomen and Superficial Structures (Diagnostic Medical Sonography Series) by Tonya Nolan and Diane Kawamura (2023)

ISBN: 9781975217174

Diagnostic Medical Sonography: Obstetrics & Gynecology (Diagnostic Medical Sonography Series) by Susan Stephenson and Julia Dmitrieva (2023)

ISBN: 9781975217280

[Ultrasound in Obstetrics and Gynecology: A Practical Approach | Textbook | GLOWM](#)

Reference Websites

www.ARDMS.org

www.SDMS.org

www.AIUM.org

Course Description

An introduction to sonographic imaging in abdominal and Ob/Gyn specialties. Emphasis will be placed on recognition of basic ultrasonic tissue characterization and measurement techniques, normal states, data from other imaging modalities, laboratory findings, patient history and other information as appropriate. Basics of the normal abdominal and gynecologic exam protocols will be introduced. Open labs are also offered from 9 am to 10 am on Monday and Wednesday.

Prerequisites: Acceptance in the DMS program

Co-requisites: A&P 2 & Lab

Student Learning Outcomes

At the end of this course, the student should be able to do the following for selected topics in abdominal and gynecological sonography:

1. describe the roles of sonographers in healthcare settings
2. recognize selected normal anatomy as demonstrated by sonography
3. develop and apply examination strategies for normal conditions
4. recognize basic principles of physics and instrumentation to sonographic examinations
5. demonstrate ergonomic scanning application
6. develop proficiency in application of ultrasound imaging techniques to obtain basic diagnostic images of abdominal and pelvic organs.

Course Expectations

Each student is expected to participate in, and contribute to, all activities related to the course. A variety of teaching methods will be used that may include, but not be limited to, the following: Class discussion, lectures, demonstrations, laboratory exercises, and homework assignments.

Attendance Policy

Because of the importance of this course and the volume of material covered, students are expected to follow the course schedule and attend every class and be on time. The student is required to contact the Professor in the event of an unavoidable absence at least one hour prior to the scheduled class start time.

Tardy

- Arrival 10 minutes or more after the designated start time for a lecture or laboratory Student will be allowed into the classroom.
- 3 events of tardiness will be counted as an absence.

Leaving Class Early

- Leaving greater than 10 minutes before the designated end of class time for a lecture or laboratory.
- 3 events of leaving class early will be counted as an absence.

Absence

- Not arriving at all for a lecture or laboratory

More than **3 absences** from lecture and/ or lab for a full semester course will result in punitive action ranging from, but not limited to, reduction of course grade to withdrawal from the course. In the case of extenuating circumstances, please contact the instructor directly. Each situation will be evaluated on an individual basis.

Make up missed work/examinations

- It is the students' responsibility to make up all missed work and must be done so at a time convenient to both student and instructor.
- It is the students' responsibility to make up missed examinations and must be done so at a time convenient to both student and instructor. Missed examinations must be made up within 1 week.

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Grading Policy

The periodic exams will account for 55% of the course grade. Lab grade will count for 10% of the course grade. The final, comprehensive exam will account for 25% of the course grade. A student having less than 73% average at mid-term will be given an academic warning. If the student is unable to obtain a final course grade of 73%, the student will be removed from the Program. Please see the Program Policy and Procedures Manual for specifics.

<i>Assignment</i>	<i>Points</i>
<i>Exam 1</i>	<i>18.33</i>
<i>Exam 2</i>	<i>18.33</i>
<i>Exam 3</i>	<i>18.34</i>
<i>Lab</i>	<i>20</i>
<i>Final exam</i>	<i>25</i>
<i>Total</i>	<i>100</i>

Grading Scale

The STCC grade scale can be found in the [STCC catalog grading system](#)

93.00 to 100.0 = A	80.00 to 82.99 = B-	67.00 to 69.99 = D+
90.00 to 92.99 = A-	77.00 to 79.99 = C+	63.00 to 66.99 = D
87.00 to 89.99 = B+	73.00 to 76.99 = C	60.00 to 62.99 = D-
83.00 to 86.99 = B	70.00 to 72.99 = C-	Less than 60.00 = F

College / Department Policies

Springfield Technical Community College is an institution that is committed to offering students the best possible education. The education environment is compromised when individuals infringe on the rights of others to succeed in learning. Therefore, the following policies and procedures are intended to serve as guidelines for acceptable behavior at STCC. Conduct which could subject a student to disciplinary action includes, but is not limited to:

Acts of dishonesty, disruption or obstruction of teaching or research, physical abuse, verbal abuse, threats, intimidation, harassment, coercion, other conduct which threatens or endangers the health and safety of any member of the campus, attempted or actual theft of and/or damage to property of the college or property of a member of the college, hazing, failure to comply with directions of college officials or law enforcement officials, unauthorized possession, duplication or use of keys to any College premises or unauthorized entrance, violations of published College policies, rules or regulations, violation of federal, state, or local laws on College premises, use, possession or distribution of narcotics or other controlled substances, use, possession or distribution of alcoholic beverages, illegal or unauthorized possession of firearms, explosives, other weapons or dangerous chemicals, conduct which is disorderly, lewd, or indecent. For a more complete listing, refer to your college catalog.

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Veterans

Veterans and active duty military personnel with special circumstances and/or concerns are welcome and encouraged to communicate these, in advance, if possible, to the instructor.

Office of Disability Services

In compliance with Springfield Technical Community College's policy and equal access laws, disability-related accommodations are discussed and determined through an interactive process with the student. Students who are interested in discussing disability-related accommodations can begin the process by registering with STCC's Office of Disability Services (ODS) at: <https://www.stcc.edu/resources/academic-support/ods/register/>. Once registered, an ODS Counselor will review the disability documentation and reach out via a student's STCC email to schedule an intake appointment to discuss any accessibility concerns in the educational setting, along with accommodation requests. For additional information, please contact ODS at 413-755-4785 or via email at disability_services@stcc.edu.

Documentation can be sent:

Email: disability_services@stcc.edu.

Fax: (413) 755-6323

Mail: STCC, Attn: Disability Services, One Armory Square, Springfield, MA 01105

Please see additional information on [registering with the Office of Disability Services](#) or contact ODS at 413-755-4785 or via email at disability_services@stcc.edu.

Class cancellation

Notification of class cancellation (other than weather or campus emergencies) will be posted via blackboard announcement.

Office hours

Office hours 9 am to 10 am on Monday / Wednesday and 11:50 pm to 12:50 pm on Tuesday and Thursday. Appointments are suggested.

Course Schedule

Subjective to change over time

Week	Topic	Notes
1 9/6-12	Sonography Introduction	
2 9/13-19	Sonography Introduction	
3 9/20-26	Scan Planes Measurements of Particular structures Lab1 (Aorta Ultrasound)	AB simulator OB simulator
4 9/27-10/3	Tissue Characterization Basic Scanning Skills Lab 1 Test 1	
5 10/4-10	The normal abdomen Abdominal Vessels Learn basic abdominal protocols and landmarks	
6 10/11-17	The normal abdomen Abdominal Vessels Lab1 assignment due Mon. Oct. 5	Columbus Day Holiday Tue. 10/13 follows a Mon. schedule.
7 10/18-24	The normal abdomen Ergonomics Lab 2	
8 10/25-31	The normal abdomen Lab 2	
9 11/1-7	Test 2 Lab 2 assignment due Wed. 10/28	
10 11/8-14	The Normal Pelvis Cyclic Physiology Normal cyclic ovarian anatomy Lab 3 (Liver Ultrasound)	Veterans Day Holiday
11 11/15-21	The Normal Pelvis Cyclic Physiology Normal cyclic ovarian anatomy Learn basic pelvic protocols and landmarks Lab 3	GYN phantom scan
12 11/22-28	Learn basic pelvic protocols and landmarks Lab 3	GYN phantom scan Thanksgiving Holiday
13 11/29-12/5	Learn basic pelvic protocols and landmarks Lab 3	GYN phantom scan

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14 12/6-12	Test 3 Lab 3	
15 12/13-19	Lab 3 Test Liver ultrasound	Last class: 12/16
	Final Exam	12/21 10:10 am