

## Abdomen and Small Parts Sonography

DMS200.11

Fall 2020

**Number of Credits:** 4

**Days Class Meets:** Online

**Meeting Times:** TBD

**Location/Venue:** IBL

**Instructor:** Stephen Geiersbach MS, RT(R),  
RDMS

**Contact Phone:** 517 917-4815

**Contact Email:** geiersbstephenm@jccmi.edu

**Online Office Hours:** Online TBD

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### Course Description

Students learn in-depth, cross-sectional anatomy and pathology as related to sonographic scanning of the abdomen, and small parts in the adult and pediatric patient. The class gives attention to physiologic and pathological change of specific, non-specific diseases, and trauma as they relate to sonographic interpretation of the abdomen, and small parts. Mastery level achievement is encouraged and expected. Prerequisites: Acceptance into DMS General Program

### Course Objectives

At the completion of this course, students will be able to initiate investigation and exploration of knowledge and pose challenging questions.

At the completion of this course, students will use an expanded vocabulary.

At the completion of this course, students will understand that human behavior has consequences for the welfare of others.

Objectives will be assessed via class discussion participation, and the study guides.

### Textbook (choose appropriate options below)

Kawamura, D., Lunsford, B., [Diagnostic Medical Sonography: Abdomen and Superficial Structures](#) 4th edition, Lippincott Williams & Wilkins 2017. ISBN-13# 978-1496354921  
[e-book version from Amazon](#)

You will want to keep the text until you are finished with the program.

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**Optional Texts:**

Sanders, Roger, M.D., Clinical Sonography A Practical Guide 5th edition. Lippincott Williams & Wilkins, Philadelphia, PA 2015 . ISBN# 978-1451192520.

Reading assignments are minimal. It is recommended by the instructor that students read the appropriate chapters corresponding to the topic of discussion for reinforcement and clarity of understanding. It is highly suggested by the instructor that students utilize as many references as possible to enhance their learning and understanding.

***Textbook Zero***

**Text Book Zero!** This text is available in a digital format. Please see the links posted on our class Jet Net site. This text is available to rent or purchase in digital format through the JC Bookstore..

**Follett Access! Please review the cost of your required materials at the following link to determine the best option for you to purchase your materials:**

<https://www.bkstr.com/jacksonstore>

For more information on the Follett ACCESS Program, you can view the frequently asked questions here: <https://www.jccmi.edu/bookstore/student-services-follett-access/>.

If after reviewing the costs, you choose to opt out, you may do so here: [www.jccmi.edu/optout](http://www.jccmi.edu/optout).

Please note your opt out selection is for your entire semester schedule. You cannot opt out and opt in to individual courses. And you must opt out by the due date for your first class.

<b>Class Starts On:</b>	<b>Opt Out Date:</b>
August 31, 2020	September 3, 2020
October 6, 2020	October 9, 2020
October 27, 2020	October 30, 2020
November 11, 2020	November 14, 2020

If you have questions about materials, please contact the Jackson College Follett bookstore at [jackson@bkstr.com](mailto:jackson@bkstr.com). For account billing questions, please contact the Jackson College Cashier at [jccashier@jccmi.edu](mailto:jccashier@jccmi.edu).

## Extras

Students must be aware, to experience successful outcomes, that this course **requires serious commitment and time management skills** to complete required readings, research, developing an understanding for pathological change of specific and non-specific nature, and trauma as it relates to sonographic imaging and interpretation of the abdomen and small parts. Participation is a graded requirement.

### **Instructor responsibility:**

The instructor's responsibilities include facilitate learning by providing and explaining the necessary materials for each student to understand the assignments and develop course objectives to a near mastery level. Knowledge gained from this course should aid students in their clinical experiences. Opportunities to utilize the JC Library and DMS lab equipment, computers etc. will be made available upon student's request whenever possible.

### **Instructor Response Expectations:**

Under normal conditions, student's can expect a response to questions posed within a 48 hour period or sooner. Students should not expect a response during weekends and holidays. However, the instructor will make every attempt to access the course frequently.

### **Student Responsibilities:**

Students are expected to log in and interact with each session. The facilitator requires that assignments, including reading, will be completed on time. Such preparation allows the student the best learning opportunities to understand material presented and pose questions in areas requiring clarity. The pace of this course makes it very difficult for a student to catch-up once a student falls behind. It is highly suggested students create and participate in small study groups either virtually or in person. Students may use the sonography lab/study area, or Skype for Business (Lync) for this purpose. Instructor is willing to schedule conference time with groups or individuals upon request.

### **Expectations of Students by Instructor RE: Course Interactions:**

It is expected that each student will access the course site no less than twice/week for the purpose of contributing to discussion forums, taking quizzes, and reviewing of announcements. It is highly suggested that students access the course site 3-5 times/week to increase their probability of experiencing successful learning outcomes. It

is easier to do a little each day than it is to be overwhelmed once a week. The student is responsible for any timely announcement or e-mail that is posted. It is expected that the student will contact the instructor immediately if any problem arises.

*In compliance with Federal Title IV funding requirements, as well as college initiatives, reporting of student participation in classes will occur at several times each semester. Students identified as no longer participating will be dropped or administratively withdrawn from the class.*

### **Recommendations:**

It is recommended that you review and print out the lesson first. This will allow you to take notes on it from the reading. There may be a few errors in the textbook and I will try to make you aware of the ones I know about. The lessons are error free as far as I know. If you see anything that doesn't seem correct, be sure to post it in the forums. Post any cloudy areas that you may have. There is no stupid question unless it doesn't get asked. This content is very difficult, and it is best to collaborate.

### **Study guides:**

The study guides are set up so you can use them to comprehend some of the more common or more complex content. Feel free to work on them together via the forums, Skype, Google Hangout, etc., or the 24/7 live text chat area. These are for your benefit so you will get out what you put into them. If you need more forums or chat rooms created, please let me know and I will create them.

### **Quality:**

Student contributions to discussion forums must stay on the subject and provide added value to be considered for grading purposes. Students are highly discouraged from contributions that add no value, e.g., "I agree with ..." or "great job" these types of comments while informal, do NOT add value to a discussion and will not receive any points. Students receive point values for quality contributions (those that add value) as opposed to the number of contributions a student may provide. This may include probing questions/answers that expand the discussion and bring information from alternative sources than course text and materials. If a source is a website, be certain to include the full web address. The instructor expects a **minimum of 1 weekly contribution to the topic discussion and 1 weekly post to the clinical chat** area for the specific week. This does NOT mean that a student must contribute to each and every discussion. Again, I reiterate that **contribution quality is more important than quantity.**

### **Late Assignments:**

Late assignments including discussion posts are subject to point deductions.

### **Exam Process- Respondus**

To protect the fairness and integrity of the exams, students will be required to take exams using Respondus Lockdown Browser and Monitor. This is an online test proctoring software that requires a download to your computer. Training and practice of Respondus technology will be provided in advance of the first exam. A Mac or PC that has a webcam and microphone is required to use Respondus. If you do not have this technology, please contact your instructor right away. Students are expected to complete the Respondus Practice quiz on time. This is to give our IT department time to help troubleshoot issues **before** exam 1 begins. Failure to complete the Respondus quiz on time may result in instructor-initiated drop.

### **Grading Procedure**

*Some revisions may be necessary during the course due to school policies, textbook issues, test issues, etc. Any change will be posted as a course announcement.*

*"The size of your success is measured by the strength of your desire; the size of your dream; and how you handle disappointment along the way." Robert Kiyosa*

11	Study Guides	110	6%
15	Sonosim	750	36%
11	Quizzes	165	9%
2	Tests	150	8%
1	Midterm	200	10%
1	Final	360	19%
	Discussions	220	12%
Total Points		1955	

### **Grading Scale**

<b>GPA</b>	<b>GRADE RANGE</b>
4.0	94-100%
3.5	89-93%

3.0	84-88%
2.5	78-83%
2.0	72-77%
1.5	66-71%
1.0	60-65%
0.5	55-59%
0.0	0-54%

A 2.0 or higher is required to advance to DMS 201.

A 2.0 or "C" is a passing grade. Only courses with passing grades count toward graduation. Other colleges transfer in only courses with passing grades. Many financial aid sources, including most employers, require passing grades. Additionally, earning less than a 2.0 in a class results in not being able to participate in the next level of courses in a discipline which requires this course as a pre-requisite. If you attempt to register for the next course sequence and have not passed the pre-requisite course, you will be dropped from that class.

### **Failure**

Any circumstances under which a student could be dismissed from or failed in the course that is not covered in other college publications. In pass/fail courses, a listing of minimal competencies.

### **Academic Honesty Policy**

Academic Honesty is defined as ethical behavior that includes student production of their own work and not representing others' work as their own, by cheating or by helping others to do so.

**Plagiarism is defined as the failure to give credit for the use of material from outside sources.**

**Plagiarism includes but is not limited to:**

- Submitting other's work as your own
- Using data, illustrations, pictures, quotations, or paraphrases from other sources without adequate documentation
- Reusing significant, identical or nearly identical portions of one's own prior work without acknowledging that one is doing so or without citing this original work (self-plagiarism)

**Cheating is defined as obtaining answers/material from an outside source without authorization. Cheating includes, but is not limited to:**

- Plagiarizing in any form

- Using notes/books/electronic material without authorization
- Copying
- Submitting others' work as your own or submitting your work for others
- Altering graded work
- Falsifying data
- Exhibiting other behaviors generally considered unethical

Allowing your work to be submitted by others

### **Accessibility**

Jackson College understands that cultivating a broadly diverse community is crucial to our educational mission and to our foundational commitment to leadership and service. Jackson College is fully committed to ensuring our courses are accessible to everyone including those with disabilities. We are currently working to increase accessibility and usability of our course materials in order to meet or exceed the requirements of Section 508 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1991 and Web Content Accessibility Guidelines (WCAG) 2.0. For more information about Jackson College's efforts to ensure accessibility please visit the [Jackson College accessibility web page](#).

If you have an accessibility need in any of our classes please e-mail the Center for Student Success at [JCCSS@jccmi.edu](mailto:JCCSS@jccmi.edu) or visit the [Center for Student Success web page](#).

At the Center for Student Success (CSS), we are committed to providing all students the opportunity to achieve academic success by providing a variety of support services free of charge to Jackson College students. This includes, but is not limited to, peer and faculty tutoring, mental health referral, temporary assistance with transportation, various workshops/seminars, and the TRIO program.

In addition, the CSS staff is committed to adapting the College's general services to meet the individual needs of otherwise qualified students with disabilities, for the purpose of providing equal access to all programs and facilities.

### **Makeup Policy**

Ways that students can manage their enrollment in a course for special circumstances. Includes withdrawal, and audit and incomplete grading procedures.

### **Academic Advising**

It is important to contact a Center for Student Success professional prior to the start of the semester in order to receive accommodations in a timely manner. While we will make every effort to coordinate accommodations in a timely manner, failure to self-identify prior to the start of the semester may delay notification to instructors and timeliness of acquiring accommodations.

Accommodations do not automatically carry over to the next semester. Please e-mail [JCCSS@jccmi.edu](mailto:JCCSS@jccmi.edu) or visit the [Accommodations for Students with Disabilities](#) web page.

## Attendance- Participation Policy

For online sections:

Just as in a traditional classroom course, regular class participation and keeping up on the reading and assignments is strongly correlated with survival in college. It is my recommendation that you plan to do your assignments and take your exams BEFORE the last day they are due. If problems occur, there is time to fix them before the deadline.

In compliance with Federal Title IV funding requirements, as well as college initiatives, I will be monitoring student participation on a regular basis and officially reporting student activity throughout the term to assure compliance with college policy and federal regulations. It is imperative that you log in to the course and actively participate ***within the first couple of days of the term*** to validate your enrollment in the course. After that, not actively participating in class may result in you being withdrawn from the course. Being withdrawn from a course can have an impact on financial aid, billing, athletic eligibility, and housing status. As a college student you are responsible for how your participation impacts your academic progress; the accountability lies with you.

### Caveat

A statement that advises students that some revisions may be necessary during the course. School closing policies, instructor illness and other procedural improbabilities are described for students.

## Calendar

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### **Session #1**

Reading: chapter 1, 2, 3  
Lesson: Foundations  
View Course Navigation Tips  
Study guide 1  
Quiz 1  
Discussion  
Edit your profile including a photo or yourself

### **Session #2**

Reading: chapter 4  
Lesson: Abdominal Vasculature  
Aorta/IVC: Core Clinical (SonoSim)  
Study guide 2  
Quiz 2  
Discussion

**Session #3**

Reading: chapter 5  
Lesson: Liver  
Liver: Anatomy & Physiology (SonoSim)  
Study guide 3  
Quiz 3  
Discussion

**Session #4**

Reading: chapter 6 & 19  
Lesson: Biliary tree & Pediatric Abdomen  
Biliary Tree: Core Clinical (SonoSim)  
Study guide 4  
Quiz 4  
Discussion

**Session #5**

Reading: chapter 7  
Lesson: Pancreas  
Pancreas: Anatomy & Physiology (SonoSim)  
Study guide 5  
Quiz 5  
Discussion

**Session #6**

**Test 1** : click on the link in the class for details

**Session #7**

Reading: chapters 8, 13, 14, & pages 697-704  
Lesson: spleen and retroperitoneum  
Spleen: Anatomy & Physiology (SonoSim)  
Adrenal: Anatomy & Physiology (SonoSim)  
Study guide 7  
Quiz 7  
Discussion

**Session #8**

**Midterm**

The Midterm exam is a comprehensive exam. All students should be certain they have very reliable Internet provider. Students will NOT want to get bumped off by an ISP as

this will result in a zero score. Click on the Midterm exam link for specifics.

-It is recommended that you start reading for next week as there is a lot of information.

**Session #9**

Reading: chapter 10, 11, & 20

Lesson: Urinary system

Renal: Core Clinical (SonoSim)

Bladder: Core Clinical (SonoSim)

Study guide 9

Quiz 9

Discussion

**Session #10**

Reading: chapter 9, 24, & 25

Lesson: GI, Emergent U/S, & Organ transplant

GI Tract: Anatomy & Physiology (SonoSim)

Study guide 10

Quiz 10

Discussion

**Session #11**

**Test 2** : click on the test 2 link in the class for the specifics

**Session #12**

Reading: chapter 12, 17 & the penile chapter in your DMS105 text

Lesson: Male Pelvis

Scrotum: Anatomy & Physiology (SonoSim)

Prostate: Anatomy & Physiology (SonoSim)

Study guide 12

Quiz 12

Discussion

**Session #13**

Reading: chapter 15

Lesson: Thyroid and parathyroid

Thyroid: Anatomy & Physiology (SonoSim)

Soft Tissue: Core Clinical (SonoSim)

Study guide 13

Quiz 13

Discussion

**Session #14**

Reading: Chapters 26 & 27  
 Lesson: Interventional Sonography  
 Intro to US-Guided Procedures: Procedure (SonoSim)  
 Lungs: Anatomy & Physiology (SonoSim)  
 Study guide 14  
 Quiz 14  
 Discussion

**Session #15**

**Respondus Monitor Final Exam** The final exam will be a comprehensive exam. All students are REQUIRED to have a secure, high speed internet connection, a working webcam, and an up to date browser so the Respondus software can download. Students will NOT want to get bumped off by an ISP.

**Important Dates:**

**Fall 2020**

Event	Dates	Notes
<b>REGISTRATION BEGINS FOR ALL STUDENTS</b> <i>New students must contact Admissions at 517.796.8425 prior to registering for classes.</i>	June 15, 2020	<b>Register – Fall 2020</b>
<b>Semester Dates</b>	Aug. 31 – Dec. 19, 2020	
<b>Faculty Learning Days</b>	Aug. 26 – 28, 2020	
<b>Labor Day</b>	Sept. 5 – 7, 2020	No classes
<b>Thanksgiving Break</b>	Nov. 25 – 29, 2020	No classes