



Figure 1: Owens Logo.

Course Syllabus
Semester:
School of Nursing and Health Professions
Department of Sonography

<i>Course Name:</i>	General Ultrasound III
<i>Course & Section Number:</i>	DMS204-002
<i>Meeting Day(s) & Time(s):</i>	
<i>Credits:</i>	3
<i>Contact Hours:</i>	3
<i>Instructor's Name:</i>	
<i>Office Hours & Location:</i>	
<i>OCC Email:**</i>	
<i>Additional Contact Information:</i>	

****Please use only Owens email for course communications.**

Catalog description: Review of abdominal / small parts anatomy and physiology. Examines pathology and pathophysiology of the abdomen and small parts of patients with age specific comparisons. The necessary analytical skills of differential diagnosis needed in the clinical environment are emphasized. Correlation with other imaging modalities along with pertinent history and laboratory data is discussed. The interpersonal and interdepartmental relationships of the imaging department and patient management skills will be included.

Prerequisite/Corequisites: DMS 212. DMS 214 & DMS 216

Course Materials:

Hagen-Ansert, Textbook of Diagnostic Sonography. Eighth Edition, 2018

*If a **print book, e-book, or access code** is required for class, you can access the Owens Community College e-Campus Bookstore by accessing the online link, called “Find Books” on the course schedule for each course section.*

What You Will Learn in the Course

Course Objectives:

This course will:

1. Introduce students to sonographic protocols, anatomy and physiology of the abdomen and small parts as it relates to pathology and pathophysiology.
2. Introduce the concept of correlating pertinent history, patient assessment and laboratory tests, including other imaging modalities with sonographic examinations as it relates to pathology.
3. Provide an opportunity to research interesting cases and prepare a PowerPoint to be presented to peers.
4. Continue to evaluate the analytical skill of differential diagnosis needed in the clinical setting.

Student Learning Outcomes:

Students will:

Outcome	Where Assessed
Be able to identify, distinguish between, compare and describe common pathologies found on organs in the abdomen and in superficial structures in the didactic component and while imaging.	Case Reviews, CME activities, Tests, Midterm Exam, Final Exam
Be able to identify, distinguish between, compare and describe various pathologies found on organs in the abdomen and superficial structures on sonographic images	Case Reviews, CME activities, Image IDs
Be able to identify, distinguish between, compare and describe various pathologies on computed tomography, radiographic and magnetic resonance imaging	Case Reviews, CME activities, Image IDs

Technology, Lab, and File Requirements:

Microsoft Office 365

<https://www.owens.edu/office365/>

Respondus

<https://download.respondus.com/lockdown/download.php?id=139313370>

Academic Support

Disability Services Resource Center: If you have a disability or acquire one, you may be entitled to receive reasonable accommodations intended to assure you an equal opportunity to participate in and benefit from the program. To receive more information or to register for accommodations, please contact the Disability Resource Center at 567-661-7007, email disability@owens.edu, visit <https://www.owens.edu/disability/>, or stop by College Hall 124.

Tutoring Services: Owens Community College offers academic tutoring and assistance in a variety of subjects including: accounting, computing, economics, mathematics, science, and writing. For more information go to: <https://www.owens.edu/successcenters/>.

Counseling Services: Counseling Services provides assistance to students experiencing personal, educational, interpersonal/relationship, family, social, or psychological difficulties. If you feel you may benefit from this service, please contact them at counselingservices@owens.edu. More information is at <https://www.owens.edu/counseling/>.

Campus and Community Connections: The Center for Campus and Community Connections (College Hall 123) is a walk-in office created to provide retention support through resource stability initiatives and community connections. Go here for more information: <https://www.owens.edu/connection/> or contact connections@owens.edu

Owens Library: The Owens Library offers two locations (Toledo and Findlay) as well as online resources. For more information visit <https://www.owens.edu/library/>.

Students can find more information on campus resources, student support, student life, and security at this [link](#).

General Information

Student Code of Conduct: All students are expected to follow Owens Community College's Student Code of Conduct, which includes academic honesty, encompassing plagiarism. See the Board Policy for more information.

Anti-Discrimination and Harassment & Title IX/Sexual Misconduct: All students, faculty, and staff are expected to follow Owens Community College's Anti-Discrimination and Harassment Policy and the College's Title IX Policy/Sexual Misconduct Procedures and Guidelines. The College strictly prohibits and will not tolerate harassment, discrimination, intimidation, or hostile/offensive working or learning environments.

Religious Accommodations: A student seeking an accommodation for an absence permitted under Ohio's Testing Your Faith Act must provide the instructor with a written email notice with the specific dates for an absence, and must do so not later than fourteen (14) days after the first day of instruction. Alternative accommodations are not retroactive, and no academic penalty will be imposed for an absence under the policy*. The request for an alternative accommodation will

be kept confidential. Students with questions about a religious accommodation under Ohio's Testing your Faith Act may contact the College's Office of Academic Affairs: provost@owens.edu. The policy may be found on the Owens website: [3358:11-2-63 Accommodation for a Student Absence for the Observance of Religious Beliefs and Practices Policy](#)

Document Collection: Throughout the semester, your instructors may ask for a variety of assignments including tests and/or quizzes for student learning of institutional general education competencies or program assessment. Please save all your class materials until the end of the semester.

Classroom Admittance: OCC classes shall only be attended by the officially registered OCC students or prospective students, instructor of record, guest lecturer, or substitute. Visitors are not permitted to be in the classroom and should not be invited to attend or participate in the class. See [FERPA](#) regulations for more information.

Use of AI Tools: This course permits you to use artificial intelligence (AI) tools, such as chatbots, text generators, paraphrasers, summarizers, or solvers, to get guidance on assignments, as long as you do so in an ethical and responsible manner. Essentially, you can think of these tools as ways to help you learn but not to entirely create work for assignments like discussion board posts, essays, presentation slides, and so on. AI is more like your tutor or TA, not a replacement for your independent thinking.

This means that you must:

- Not use AI tools to replace your own thinking or analysis or to avoid engaging with the course content.
- Cite or explain any AI tools you use. Provide the name of the AI tool, the date of access, the URL of the interface, and the specific prompt or query you used to generate the output.
- Be transparent and honest about how you used the AI tool and how it contributed to your assignment. Explain what you learned from the AI tool, how you verified its accuracy and reliability, how you integrated its output with your own work, and how you acknowledged its limitations and biases.

You are accountable for any mistakes or errors made by the AI tool. Always check and edit the output before submitting your work. If you discover any inaccuracies or inconsistencies in the output after submission, notify the instructor immediately and correct them as soon as possible. Using AI tools in an unethical or irresponsible manner, such as copying or paraphrasing the output without citation or transparency, using the output as your own work without verification or integration, or using the output to misrepresent your knowledge or skills, is considered a form of academic dishonesty and will result in a zero grade for the assignment and possible disciplinary action. If you have any questions about what constitutes ethical and responsible use of AI tools, please consult with the instructor **before** submitting your work.

Student Responsibilities & Instructor Expectations

Student Responsibilities:

- You are expected to attend weekly classes and arrive on time. If you are going to be absent, please email your instructor before class begins. Afterward, review the assignment calendar to see what was missed and reach out if you have questions.
- You are expected to fully engage with the course material and consistently put forth your best effort in lecture and lab.
- If you are unable to complete an assignment on time, contact your instructor as soon as possible to discuss your options.
- Email is the preferred method of communication outside of office hours. Please include clear and specific details in your message so your instructors can respond efficiently.
- You are encouraged to ask questions or request clarification. Unless we hear otherwise, we will assume you understand the material. Each class builds on previous concepts, so staying current is important.
- Show respect for your instructors, classmates, and the learning environment.
- You are expected to follow all guidelines and procedures outlined in the Sonography Department Procedure Manual.
- For technical issues related to Blackboard, contact the Owens Help Desk.

Instructor Expectations:

- The instructor will be respectful of your time and begin and end class on time. If any changes to class times occur, you will be notified by email.
- Your instructor's goal is to review and return assignments that require student corrections within three days of submission. Assignments that do not require corrections or resubmission may take longer to be fully graded. If it has been more than three days and you are waiting on feedback for an assignment you believe may need revision, please email your instructor.
- Your instructor checks their email several times a day, but also has responsibilities outside of teaching this course. They will do their best to respond to your email with 24 hours on weekdays and within 72 hours on the weekends.
- Office hours are available outside of class time to support you with any questions or concerns related to the course. Please don't hesitate to make use of this time.
- Your instructor welcomes and encourages questions.
- Teaching is a two-way process, and your instructor hopes to learn from your insights, questions, and feedback throughout the course.

How Grades are Determined and Major Assignments

Grading Procedure:

Grades will be calculated on the following scale.

93% and Above	A
85% to 92%	B
76% to 84%	C
60% to 75%	D
59% or Below	F

If the percentage earned is less than 76% for the course, the student will earn a grade of “**D or F**” for the course and will not be able to continue in the program.

The final grade for the course will be computed using the following weights.

In-Class Activities	6 Percent
4 Case Reviews	12 Percent
2 CME Activities	6 Percent
6 Tests with Image ID	36 Percent
Take Home Midterm Exam	10 Percent
Comprehensive Image ID	10 Percent
<u>Comprehensive Final Exam</u>	<u>20 Percent</u>
Total:	100%

****Please note that ½ point will be deducted from all homework, tests, and assignments for each spelling error. Using abbreviations will also result in a ½ point deduction. ****

In-Class Activities

Attending class and being an active learner will elevate student success in the course. Most weeks there will be an in-class activity to be completed and reviewed as a class. Students must submit the assignment on Blackboard by midnight on the day of class in order to receive points for in-class activities. Any student who is unable to attend class for the week must notify the course instructor at least 30 minutes prior to the start of class to be eligible for a make-up assignment. If no notification is received, then the student will forfeit the in-class participation points from the activity for the week. In-class activities are worth 6% of the total course grade.

Case Reviews:

Four cases of abdominal and superficial structures pathology or anomalies must be submitted. Two will be abdomen related and two will be small parts related. Each review will be worth 3% of the final grade. Four reviews must be submitted or a grade of “I” will be assigned. Reviews will be due on an assigned date given by the instructor. The reviews must be information presented during this course. The format for this assignment will be available in Blackboard under *Presentation Information*. The case reviews must follow a chronological order, with the images and the correlating information placed in a power point presentation. All 4 cases can be put on 1 PowerPoint. The student will present their cases to the class on the assigned date in a professional manner. A one page, keyed, double spaced paper must be included with using at least two sources detailing each pathology presented. One page for each pathology can all be turned in as 1 paper. This must follow the APA guidelines. A cover page must be included with the name of the pathology centered on the page and the student’s name and course. Parameters to be reviewed include correct technical factors, depth, TGC, focal zone placement and overall quality as it pertains to the pathology presented. These brief reviews will provide an insight into the importance of medical imaging and the role it plays in the health profession. The reviews will also ensure correlation of didactic and clinical information. In addition to discussing the

pathology present, students will evaluate the image for the entire procedure that is to be followed regarding patient confidentiality and removing patient demographics.

The Medical Records Removal form must be completed in Trajecsyst, uploaded in Blackboard, and turned in with each case study. Without this, a grade of “0” will be received. There will be no exceptions.

Five percent (**5%**) of the Case Review grade will be deducted for each calendar day an assignment is late without prior approval from the instructor. **NO** grade will be assigned until all assignments are submitted. Assignments are considered late if they are not submitted by the beginning of class on the designated date specified on the class calendar.

CME Activities:

A total of two (2) CME activities, abdomen and small parts related, are to be turned in during the semester. One (1) to be abdomen and one (1) to be small parts. Students will search current professional journals for articles that offer a continuing medical education quiz. Upon completion of the article, the quiz must successfully be completed with a 75% or higher score in order to receive credit for the assignment. Students must provide to the instructor documentation that the CME Quiz was successfully passed. A 1 paragraph paper will be turned in discussing the article, what you learned, and if you would recommend the article to others. Students will briefly discuss the contents of the article with the class. These discussions will take place on the same day that the student is presenting images. Each CME will be worth 3% of the final grade.

Five percent (**5%**) of the CME grade will be deducted for each calendar day an assignment is late without prior approval from the instructor. **NO** grade will be assigned until all assignments are submitted. Assignments are considered late if they are not submitted by the beginning of class on the designated date specified on the class calendar.

Tests:

Six (6) exams with image ID will be given. Each will be worth 7% of the grade. Any student who misses a test and has NOT notified the instructor at least 30 minutes prior to the start of the test time will receive an automatic 5-point deduction on the make-up test grade. A make-up exam will then be scheduled and must be completed within five (5) days of the original test date.

Midterm Exam:

A take home midterm exam will be given worth 10% of the final grade. Five percent (**5%**) of the final assignment grade will be deducted for each calendar day an assignment is late without prior approval from the instructor. Assignments are considered late if they are not turned in at the beginning of class on the designated date specified on the class calendar.

Comprehensive Image ID:

A comprehensive Image ID will be given worth 10% of the final grade. Testing may include images from previous semesters. Any student who misses a test and has NOT notified the

instructor at least 30 minutes prior to the start of the test time will receive an automatic 5-point deduction on the make-up test grade. A make-up exam will then be scheduled and must be completed within three (3) days of the original test date.

Comprehensive Final Exam:

A comprehensive final written exam will be given during final weeks. The final exam will cover all material presented during the course. **The comprehensive final exam will be worth 20% of the course grade.** Any student who misses a test and has NOT notified the instructor at least 30 minutes prior to the start of the test time will receive an automatic 5-point deduction on the make-up test grade. A make-up exam will then be scheduled and must be completed within three (3) days of the original test date.

Assignment Calendar

Day/Week	SLO	Topic	Pre-Class Reading Assignment	Assignment Due
Week 1		Course Expectations Syllabus LIVER	SHA Chapter 9	
Week 2		NO CLASS – HOLIDAY WHEN NEEDED		
Week 3		Liver con't Gallbladder	SHA Chapter 9 SHA Chapter 10	In-Class Activity 1
Week 4	1-3	Test 1/Image ID Liver (No in-person class)	SHA Chapter 9	In-Class Activity 2 (completed online)
Week 5		Pancreas Aorta/IVC	SHA Chapter 12 SHA Chapter 8	In-Class Activity 3
Week 6	1-3	Test 2/Image ID Gallbladder, Pancreas, Aorta/IVC Spleen	SHA Chapters 8, 10, 12 SHA Chapter 11	In Class Activity 4 Take-Home Midterm Available

Week 7		Retroperitoneum/Adrenal Peritoneal Cavity & Abdominal Wall	SHA Chapter 16 SHA Chapter 14	In-Class Activity 5
Week 8	1-3	Test 3/Image ID Spleen, Retroperitoneal/Adrenal, Peritoneal & Abdominal Wall Renal	SHA Chapters 11, 14, 16 SHA Chapter 15	In-Class Activity 6 Take Home Midterm Due
Week 9	1-3	Test 4/Image ID Renal US Contrast Agents Thyroid	SHA Chapter 15 SHA Chapter 17 SHA Chapter 22	In-Class Activity 7
Week 10	1-3	Test 5/Image ID Contrast Agents, Thyroid Male Genitourinary System Prostate	SHA Chapters 17, 22 SHA Chapter 23 SHA Chapter 18 pages 470, 492-494	In-Class Activity 8
Week 11	1-3	Test 6/Image ID Male GU System, Prostate	SHA Chapters 18, 23	In-Class Activity 9
Week 12		Work on Presentations		
Week 13	1-3	Presentations		In-Class Activity 10 CME and Interesting Cases Due

Week 14	1-3	Presentations		In-Class Activity 11 CME and Interesting Cases Due
Week 15		Review for final exam		In-Class Activity 12
Week 16	1-3	Comprehensive Final Exam Comprehensive Final Image ID		

Disclaimer: The instructor reserves the right to amend this syllabus as deemed necessary and will communicate such amendment to the students in the course. Please note that while unlikely, there is a possibility courses might need to change the delivery method due to external issues like public health concerns, weather issues, etc. If this happens, the college will communicate any changes via email and/or other communication methods.