



Figure 1: Owens Logo.

**Course Syllabus
SEMESTER
School of Nursing and Health Professions
Department of Sonography**

<i>Course Name:</i>	Foundations for Clinical Ultrasound
<i>Course & Section Number:</i>	DMS 104-XXX
<i>Meeting Day(s) & Time(s):</i>	
<i>Credits:</i>	1
<i>Contact Hours:</i>	2 lecture
<i>Instructor's Name:</i>	
<i>Office Hours & Location:</i>	
<i>OCC Phone:</i>	
<i>OCC Email:**</i>	
<i>Additional Contact Information:</i>	

**Please use only Owens email for course communications.

Catalog description:

Provides a professional foundation for the ultrasound student prior to clinical education.
Discusses special topics such as HIPAA, ethics, patient rights, communication, cultural diversity,

infection control, interventional procedures, medical emergencies, and contrast enhanced ultrasound. Provides introduction to other medical imaging modalities. Discuss the roles, advantages, and disadvantages of different imaging modalities and how they correlate with ultrasound.

Prerequisite/Corequisites:

Prerequisite – DMS 101, DMS 102, DMS 103, DMS113

Course Materials:

Penny, S., Introduction to Sonography and Patient Care, 2nd edition, Wolters Kluwer, 2020
ISBN-13: 978-1975120108

*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:

The course will:

1. Discuss the ethical, legal, and professional issues that confront sonographers.
2. Describe infection control process and sterile technique for interventional procedures.
3. Introduce contrast enhanced ultrasound and demonstrate IV injection for the use of CEUS.
4. Discuss the role, as well as advantages and disadvantages, of other imaging modalities.
5. Define success strategies for clinical education and prepare the student for their role as a student sonographer.

Student Learning Outcomes:

Students will:

Outcome	Where Assessed
1. Outline methods for reducing the risk of medical litigation against a sonographer.	Tests, Quizzes, In-class Activities/Homework, Padlet Clinical Presentation, Final Exam
2. Apply sterile techniques for interventional procedures.	Tests, Quizzes, In-class Activities/Homework, Padlet Clinical Presentation, Final Exam
3. Explain the use of contrast enhanced ultrasound.	In-class Activities/Homework, Padlet Clinical Presentation
4. Differentiate between the other medical imaging modalities and the role they play in arriving at a diagnosis.	Tests, Quizzes, In-class Activities/Homework, Padlet Clinical Presentation, Final Exam
5. Describe the role of a student sonographer and how to be successful in the clinical setting.	In-class Activities/Homework, Padlet Clinical Presentation, Final Exam, Clinical Orientation Assignments

Institutional General Education Competencies:

As a student at Owens Community College, you will take General Education courses as part of your degree program. While specific to the General Education courses, will be reinforced in

many of your degree program major courses and may be measured in your capstone course(s) and others as identified.

Competency	Where Assessed
1. Communicate effectively.	Padlet Clinical Presentation
2. Act with professional responsibility.	Padlet Clinical Presentation
3. Demonstrate sensitivity to others' beliefs and values.	Padlet Clinical Presentation
4. Think analytically, critically, and creatively.	Padlet Clinical Presentation

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, paraphraser, 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.
- If you miss a class, need additional support, or want to prepare for an upcoming test, please feel welcome to make a 1:1 appointment with your instructor here. [1:1 Appt Bookings](#)

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.

Tests	20%
Quizzes	15%
In-Class Activities/Homework	15%
Padlet Clinical Presentation	20%
Final Exam	20%
<u>Clinical Orientation Assignments</u>	10%
	100%

Tests

Two (2) tests will be given worth 20% of the course grade. Any student who is tardy to the exam will receive a five (5) point deduction on the exam. The exam will still end at the scheduled time. Any student, who is unable to take the exam as scheduled, must notify the course instructor at least 30 minutes prior to the due date in order to receive full credit. If no notification is received prior to missing the test a five (5) point deduction will be taken from the score of the make-up test. The makeup test will be taken within three (3) days of the original test date and must be taken in the testing center.

Quizzes

Quizzes will cover material from the readings in the previous week, discussion/activities in-class, or an assigned webinar. Students must complete these prior to the due date. No late quizzes will be accepted without prior approval from the instructor. Quizzes are worth 15% of the course grade.

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 the due date in order to receive points for in-class activities. Students who are absent due to a legitimate, documented circumstance, as defined by [Owens Community College Board Policy No. 3358:11-2-64](#), may be eligible for a makeup assignment. To be eligible for a make-up assignment, the student must notify the course instructor at least 30 minutes prior to the start of class. Absences without appropriate documentation or without timely notification will not be eligible for a make-up assignment, and the student will forfeit the in-class participation points for that activity. In-class activities are worth 15% of the total course grade.

Padlet Clinical Presentation

Students will create a Padlet clinical presentation and then complete a peer review on three classmate's presentations. The presentation must be submitted through Blackboard by the due date. A five (5) point deduction will be given for each calendar day the assignment is late unless prior approval from the instructor was given. Peer reviews are not eligible for late submission unless prior approval from the instructor was given. For more details, please refer to the *Padlet Clinical Presentation Guidelines*, *Padlet Peer Review Evaluation*, and *Padlet Presentation Rubric* on Blackboard. The Padlet Clinical Presentation will be worth 20% of the overall course grade.

Final Exam

A final exam will be given worth 20% of the final grade. Any student who is tardy to the exam will receive a five (5) point deduction on the exam. The exam will still end at the scheduled time. Any student, who is unable to take the exam as scheduled, must notify the course instructor at least 30 minutes prior to the due date in order to receive full credit. If no notification is received prior to missing the test a ten (10) point deduction will be taken from the score of the make-up test. The makeup test will be taken within three (3) days of the original test date and must be taken in the testing center.

Clinical Orientation Assignments

1. First Year Shadowing Assignment

Students will be required to shadow a second-year student at clinic for eight hours during the last week of the semester. A schedule will be sent at a later date. Students will be required to complete the First Year Shadowing Assignment on Blackboard by the due date. The assignment will be accepted at half credit up to 24 hours past the due date. A course grade of "I" (incomplete) will be assigned if the First Year Shadowing Assignment is not complete by **DATE**. This will be worth 10% of the course grade.

2. Clinical Orientation Module

Students will be required to complete the Clinical Orientation Module prior to attending Clinical Orientation. A course grade of "I" (incomplete) will be assigned if the Clinical Orientation Module is not complete by **DATE**.

Lecture Calendar

Week	Topic	Pre-Class Assignment	Assignment Due Date	SLO
1	Syllabus Ethics & Professionalism Legal Essentials & Patient Rights	Review Syllabus Chapter 6	In-Class Activity (DATE) Quiz 1 (DATE)	1, 5
2	TBD		HIPAA – module Quiz 2 (DATE)	1, 5
3	Communication, Diversity, and Cultural Awareness	Chapter 7 Chapter 9	In-Class Activity (DATE) Quiz 3 (DATE)	1, 5
4	Review		In-Class Activity (DATE)	1, 5
5	Test 1			1, 5
6	Infection Control Medical Emergencies	Chapter 12 Chapter 11	In-Class Activity (DATE) Quiz 4 (DATE)	2, 5
7	Interventional Procedures & Sterile Technique	Chapter 13	In-Class Activity (DATE) Quiz 5 (DATE)	2, 5
8	Contrast Enhanced Ultrasound IV Injection and Insertion Patient Care & Safety		In-Class Activity (DATE) Quiz 6 (DATE)	1, 2, 3, 5
9	Review		In-Class Activity (DATE)	1, 2, 3, 5
10	Test 2			1, 2, 3, 5
11	Historical Application of Ultrasound Nuclear Medicine Magnetic Resonance Imaging	Chapter 3	In-Class Activity (DATE)	4, 5
12	Radiography Computed Tomography		In Class Activity (DATE) Understanding the Other Modalities Webinar QUIZ 7 (DATE)	4, 5
13	Clinical Education Technical Report Writing		In Class Activity (DATE) Success Strategies for Clinical Education – Webinar: Getting the most out of the clinical experience QUIZ 8 (DATE)	1, 5
14	Review		In Class Activity (DATE) Padlet Clinical Presentation (DATE)	1-5

15	Final Exam	First Year Shadowing Assignment (DATE) Clinical Orientation Module (DATE)	1-5
16	TBD	Padlet Clinical Presentation- Peer Reviews (DATE)	1-5

All students will be required to attend the following:

MANDATORY CLINICAL SHADOWING – DATE

MANDATORY CLINICAL ORIENTATION – DATE at TIME

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.