



**Department of Health Sciences
Medical Sonography Program**

BMS 3150 - Obstetrics and Gynecology Ultrasound I

I. Course Information

Course: BMS 3150 - Obstetrics and Gynecology Ultrasound I

Semester Credit Hours: 4.0

Course CRN and Section: 23675 - 0

Semester and Year: Fall 2017

Course Start and End Dates: 08/21/2017 - 12/17/2017

Building and Room: HPD-Medical Clinic - 4369/4370

II. Instructor Information

Professor: Dr. Jorge Han

Email: jh1608@nova.edu

Phone: 954-262-1994

Office Hours:

Day	Time	Location
TWR	10:00pm - 12:00pm	Ziff Building, Third Floor - Office 4333B

Please, schedule appointment via email to: jh1608@nova.edu

Thank you.

Office Hours: Monday, Wednesday and Thursday by appointment

III. Class Schedule and Location

Day	Date	Time	Location	Building/Room
T	08/21/2017 - 10/09/2017	8:00 AM - 9:59 AM	Ft Lauderdale/Davie Campus	HPD-Medical Clinic- 4369/4370
T	10/10/2017 - 10/10/2017	8:00 AM - 9:59 AM	Ft Lauderdale/Davie Campus	Carl DeSantis Building- 2020
T	10/11/2017 - 11/27/2017	8:00 AM - 9:59 AM	Ft Lauderdale/Davie Campus	HPD-Medical Clinic- 4369/4370

T	11/28/2017 - 11/28/2017	8:00 AM - 9:59 AM	Ft Lauderdale/Davie Campus	Carl DeSantis Building- 2020
T	11/29/2017 - 12/17/2017	8:00 AM - 9:59 AM	Ft Lauderdale/Davie Campus	HPD-Medical Clinic- 4369/4370

IV. Course Description

This course will focus on the use of ultrasound for the evaluation of the organs contained in the human female pelvic cavity in both, normal and abnormal, gravid and non-gravid anatomy and physiology. This course will have a strong hands-on component with students spending several hours per week in the ultrasound training laboratory. The lectures will focus on the aspects previously mentioned as well as on fetal abnormalities and abnormal conditions of the fetus. The course will explore infertility and assisted reproductive technologies. Frequency: Every Fall.

V. Course Objectives / Learning Outcomes

- 1) Describe in detail the Female Pelvic ultrasound sonogram protocol.
- 2) Describe the standard patient preparation for the Female Pelvic sonogram.
- 3) Identify and describe the normal sonographic appearance of the Female Pelvic structures included in the standard exam.
- 4) Cite the normal size range of each pelvic structure included in the standard abdominal exam.
- 5) Correlate clinical history, signs and symptoms to Female Pelvic exam findings.
- 6) Identify common normal laboratory values and abnormal laboratory values associated with pathology.
- 7) Describe common scanning techniques to optimize Female Pelvic structures.
- 8) Identify the pelvic spaces, boundaries and surfaces commonly identified with Sonography.
- 9) Correlate common pathologic conditions of the female pelvis with the sonographic appearance of those abnormal conditions.
- 10) Describe the common categories of disease; genetic, congenital, acquired, inflammatory, neoplasm (malignant, benign, intermediate).
- 11) Identify the normal and abnormal sonographic appearance of structures commonly visualized during a standard sonogram.
- 12) Define terms commonly used in Gynecological imaging.
- 13) Describe common artifacts and pitfalls of scanning the abdomen.
- 14) Identify normal location, size and blood flow characteristics of pelvic (visceral) vessels.
- 15) Identify signs, symptoms and sonographic appearance of common gynecological conditions.
- 16) Describe the characteristics of standard images of the female pelvic organs (texture, Echogenicity, transmission of sound, contrast, relative Echogenicity, border definition, etc.)
- 17) Identify common scan planes, methods and techniques employed in gynecological Sonography.

VI. Materials and Resources

Book Url: [NSU Book Store](#)

Section Required Texts and Material: Title: Textbook of Diagnostic Sonography

Author: Hagen-Ansert, S.

Publisher: St. Louis, MO: Elsevier Mosby

Edition: 7th ed., Vol. 1-2

ISBN-13: 9780323073011 OR Title: Textbook of Diagnostic Sonography

Author: Hagen-Ansert, S.

Publisher: St. Louis, MO: Elsevier Mosby

Edition: 8th ed., Vol. 1-2

ISBN-13: 9780323353755

Section Recommended Texts and Materials: Title: Workbook for Textbook of Diagnostic Sonography

Author: Hagen-Ansert, S.

Publisher: St. Louis, MO: Elsevier Mosby

Edition: 7th ed.

ISBN-13: 9780323073004 OR Title: Workbook for Textbook of Diagnostic Sonography

Author: Hagen-Ansert, S.

Publisher: St. Louis, MO: Elsevier Mosby

Edition: 8th ed.

ISBN-13: 9780323441834

VII. Course Requirements

All courses from the previous term should be approved

VIII. Course Schedule and Topic Outline

Class schedule subject to modification, but not without prior notification.

Date	Topic	Assignment
Week 1 August 22, 2017	Normal Anatomy and Physiology of the Female Pelvis	Readings: Sandra Hagen Textbook of Diagnostic Sonography 7th Edition - Chapter 39, Pages 938-939 Workbook - Chapter 39 View video clips on blackboard
Week 2 August 29, 2017	The Sonographic and Doppler Evaluation of the Female Uterus Quiz 1	Readings: Sandra Hagen Textbook of Diagnostic Sonography 7th Edition - Chapter 40, Pages 955-977 Workbook - Chapter 40 View video clips on blackboard
Week 3 September 5, 2017	Pathology of the Uterus Part I Quiz 2	Readings: Sandra Hagen Textbook of Diagnostic Sonography 7th Edition - Chapter 41, Pages 978-988 Workbook - Chapter 41 View video clips on blackboard
Week 4 September 12, 2017	Pathology of the Uterus Part II Quiz 3	Readings: Sandra Hagen Textbook of Diagnostic Sonography 7th Edition - Chapter 41, Pages 988-1000 Workbook - Chapter 41 <u>SIMTICS Home Assignment 1</u> Ultrasound Assessment of the Female Reproductive Organs- (Quiz 1) Due on September 12, 2017 (End of Day) <u>LAB Assignment 1</u> Sagittal: Vagina, Cervix, Douglas Pouch, Uterus
Week 5 September 19, 2017	Pathology of the Ovaries (Part I) Quiz 4	Readings: Sandra Hagen Textbook of Diagnostic Sonography 7th Edition - Chapter 42, Pages 1001-1014 Workbook - Chapter 42 View video clips on blackboard <u>LAB Assignment 2</u> Transverse: Vagina, Cervix, Douglas Pouch, Uterus

Week 6 September 26, 2017	Pathology of the Ovaries (II) Quiz 5	Readings: Sandra Hagen Textbook of Diagnostic Sonography 7th Edition - Chapter 42, Pages 1014-1027 Workbook - Chapter 42 View video clips on blackboard SIMTICS Home Assignment 2 Ultrasound Assessment of the Female Reproductive Organs - (Quiz 2) Due on September 26, 2017 (End of Day) LAB Assignment 3 RT Adnexal Area
Week 7 October 3, 2017	Pathology of the Adnexa Quiz 6	Readings: Sandra Hagen Textbook of Diagnostic Sonography 7th Edition - Chapter 43, Pages 1028-1038 Workbook - Chapter 43 View video clips on blackboard LAB Assignment 4 LT Adnexal Area
Week 8 October 10, 2017	Midterm Exam	
Week 9 October 17, 2017	The Role of Ultrasound in Evaluating Female Infertility	Readings: Sandra Hagen Textbook of Diagnostic Sonography 7th Edition - Chapter 44, Pages 1039-1045 Workbook - Chapter 44 SIMTICS Home Assignment 3 Ultrasound Assessment during the First Trimester - Quiz Due on November 21, 2017 (End of Day)
Week 10 October 24, 2017	OBSTETRICS. The Role of Sonography in Obstetrics. Clinical Ethics for Obstetric Sonography. Quiz 7	Readings: Sandra Hagen Textbook of Diagnostic Sonography 7th Edition - Chapter 45, Pages 1048-1057 Chapter 46, Pages 1058-1063 Workbook - Chapters 45 and 46 MEDAPHOR TV Assignment - Simulation TV Module Due on October 27, 2017 (End of Day) for the students who performed the assignment on October 24

Week 11 October 31, 2017	The Normal First Trimester Quiz 8	Readings: Sandra Hagen Textbook of Diagnostic Sonography 7th Edition - Chapter 47, Pages 1064-1080 Workbook - Chapter 47 View video clips on blackboard MEDAPHOR TV Assignment - Simulation TV Module Due on November 3, 2017 (End of Day) for the students who performed the assignment on October 31
Week 12 November 7, 2017	First Trimester Complications Part I Quiz 9	Readings: Sandra Hagen Textbook of Diagnostic Sonography 7th Edition - Chapter 48, Pages 1081-1093 Workbook - Chapter 48 MEDAPHOR TV Assignment - Simulation TV Module Due on November 10, 2017 (End of Day) for the students who performed the assignment on November 7
Week 13 November 14, 2017	First Trimester Complications Part II Quiz 10	Readings: Sandra Hagen Textbook of Diagnostic Sonography 7th Edition - Chapter 48, Pages 1093-1102 Workbook - Chapter 48 MEDAPHOR TV Assignment - Simulation TV Module Due on November 17, 2017 (End of Day) for the students who performed the assignment on November 14
Week 14 November 21, 2017	First Trimester Complications Part III Quiz 11	MEDAPHOR TV Assignment - Simulation TV Module Due on November 24, 2017 (End of Day) for the students who performed the assignment on November 21
Week 15 November 28, 2017	Final Exam Final Practicum	

IX. Grading Criteria

Your final grade is determined by your performance on a number of different tasks:

Final Course Grade:

Rubric	Percentage
Class and Laboratory Assignments	20 %
Quizzes	30 %
Mid Term Exam	10 %
Final Practicum	20 %
Final Exam	20 %
Total	100 %

Grading Scale:

The grading policy is documented in the University Handbook (what grade reflects an "A", "B", etc.).

Alpha Grade	Scale	Percentage
A	4.0	94-100
A-	3.7	90-93
B+	3.3	87-89
B	3.0	83-86
B-	2.7	80-82
C+	2.3	77-79
C	2.0	74-76
C-	1.7	70-73
D+	1.3	68-69
D	1.0	67-68
F	0.0	66 and below

TIMELINE FOR FEEDBACK FROM FACULTY

Faculty members will respond in a maximum of 48 hours to an e-mail request. This does not apply to weekends or legal holidays. Assignments will typically be graded within 1 week unless otherwise noted. More rigorous and sophisticated assignments may require more than a 1 week turn around.

X. Course Policies

Syllabus Statement:

Class content throughout this course may be recorded in accordance with the NSU Class Recording Policy. If class content is recorded, these recordings will be made available to students registered for this course as a supplement to the classroom experience. Recordings will be made available to all students who were registered to attend the live offering of the class, regardless of a students' section or discipline, or whether the student is participating in the course online. If recordings are intended to be accessible to students or third parties who were not registered for the live offering of the class, students' personally

identifiable information will be removed or redacted from the recording, unless (1) their written consent to such disclosure was previously provided, or (2) the disclosure is permissible in accordance with the Family Educational Rights and Privacy Act (“FERPA”).

Students are prohibited from recording audio or video, or taking photographs in classrooms (including online classes) without prior permission from the instructor or pursuant to an approved disability accommodation, and from reproducing, sharing, or disseminating classroom recordings to individuals outside of this course.

Students found engaging in such conduct will be in breach of the Student Code of Conduct and subject to disciplinary action.

Students are responsible for complying with the College of Health Care Sciences Student Handbook policies on Attendance, Dress Code and Conduct, Academic Honor, and Academic Affairs. Students are expected to prepare reading assignments ahead of each session and to actively participate in the online and on campus class sessions, **as applicable**. The following policies will apply to this class:

Course Remediation: • If a student fails a core sonography course, a cumulative remediation of written and/or practical examination will be administered. Grades on the transcript will be qualified to indicate a repeated course or a remediation examination.

- A final course grade of less than C in the Ob-Gyn I Sonography Course will constitute a course failure (this includes a grade achieved through a remediation examination). The grade from a remediation examination can be no higher than a C. Students who fail the ultrasound physics course and the remediation examination will be sent to the Committee on Student Progress and may be dismissed.

- While matriculating through the medical sonography program, each student is permitted to remediate a total of two core courses. A student will be allowed to sit for only one remediation examination per course.

- If a student does not take the final exam without any proven extenuating circumstances, the student will not be allowed to sit for a remediation examination.

- Full details for course remediation can be found in the Student Handbook:

http://www.nova.edu/studentaffairs/forms/studenthbk_2016-17.pdf

CLASSROOM RULES OF CONDUCT

Netiquette:

In a traditional classroom, students are reminded that behavior that disrupts the class or interferes with other students and their ability to learn is unacceptable. Any person engaged in disruptive behavior receives a written warning from the instructor. Students who continue to engage in disruptive behavior after this warning may be administratively withdrawn from the course. Similarly, in an online course, any electronic postings, emails, or electronic messages that disrupt the class or interfere with learning goals and objectives are unacceptable. Electronic communication—the backbone of online courses—must be civil, respectful, and cordial at all times. Any posting that disrupts or interferes with learning will be removed, and the author of the posting will receive a written warning. A second disruptive posting will cause the author to be administratively withdrawn from the course.

Dress: Students are expected to abide by the student dress code. Students must attend class dressed in appropriate attire or they will be sent home to change clothing. In such cases, students will be considered late or absent.

For online live and/or collaborate courses, students must be in proper dress code. Failure to do so may result in referral to the Committee on Student Progress for disciplinary action.

Cell phones/Tape recorders/Laptops etc.: Cell phones and beepers must be turned off during class hours or scheduled meetings, as they are distracting to students, faculty, and staff.

Absences/Tardiness: 1. Excused absences

A. Illness: The division must be notified as soon as possible, or at the latest, on return to school, of all absences due to illness. For unusual or prolonged illness, contact the Program Administrator, Deidra Love Ross, at 954-262-1964 or dloveross@nova.edu.

These absences will be evaluated on an individual basis.

B. Special circumstances: Unusual circumstances resulting in absences (e.g., death in the immediate family) must be cleared with the appropriate Office of Student Affairs on an individual basis, preferably before the student is absent from class.

2. Unexcused absences

Absences not falling into the first category are unexcused absences. The administration realizes that

special circumstances may arise on rare occasions leading to an unexcused absence. However, unexcused absences are neither a right nor an entitlement of the student. Unexcused absences or absences may result in a written reprimand from the dean with a copy to be placed in the student's permanent file, plus a loss of 10 percentage points in the course or failure in the course. Each laboratory, assignment, or examination missed must be made up at the discretion and convenience of the instructor. If, in the judgment of the dean, a pattern of absences appears to surface, action may be taken, up to and including failure in the courses involved or dismissal from school.

3. Promptness

Promptness is another trait a proper health care practitioner must display. Additionally, tardiness in class disturbs both the lecturer and other members of the class and is thus markedly inconsiderate and rude. Classes begin at various times within each college. Any student not seated in his or her assigned seat by the time class begins may be marked absent. Students will await the instructor's arrival until at least 20 minutes after the specified starting time, unless notified otherwise by an authorized person. Class schedules are issued from time to time as an aid to faculty members and students, but the administration reserves the right to make changes, assign Saturday hours, or deviate from published schedules without notice.

XI. University Policies

STUDENTS WITH DISABILITIES: Nova Southeastern University provides reasonable accommodations for qualified students with a documented disability. For more information about the ADA policy, services and procedures, please contact the Office of Student Disability Services at 954-262-7185 or visit <http://www.nova.edu/disabilityservices>.

CHCS EFFECTIVE WRITING CENTER: If you need some one-on-one help to improve your writing skills, you can make an appointment with one of the coaches in the HPD library. For more information or to make an appointment, go to <http://nova.campusguides.com/hpdwritingcenter/appointments>.

HENDERSON STUDENT COUNSELING CENTER: The counseling center is staffed by licensed mental health professionals, a licensed psychologist and a psychiatrist. For more information, please call 954-424-6911 or visit <http://www.hendersonbh.org/studentcounseling>.

Academic Standards

The university is an academic community and expects its students to manifest a commitment to academic integrity through rigid observance of standards for academic honesty. The university can function properly only when its members adhere to clearly established goals and values. Accordingly, the academic standards are designed to ensure that the principles of academic honesty are upheld.

The following acts violate the academic honesty standards:

- 1. Cheating**—intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise
- 2. Fabrication**—intentional and unauthorized falsification or invention of any information or citation in an academic exercise
- 3. Facilitating Academic Dishonesty**—intentionally or knowingly helping or attempting to help another to violate any provision of this code
- 4. Plagiarism**—the adoption or reproduction of ideas, words, or statements of another person as one's own without proper acknowledgment.

Unprofessional Conduct: Behavior(s) unbecoming a professional, including but not limited to: violation of rules, inappropriate dress or language, private conversations during lectures and presentations, rudeness to the professor, classmates, or patients. Each violation will be placed in writing in the student's permanent file. Depending on the nature of the violation or in the event of two incidents, a student will be referred for disciplinary action to the Committee on Student Progress and may be reflected on the student's transcript.

**THE COURSE DIRECTOR RESERVES THE RIGHT
TO MAKE REVISIONS TO THIS SYLLABUS AT ANY TIME.**