



INSTITUTE FOR
INTERNATIONAL
MEDICINE

INMED Professional Certificate Course in Obstetrics Ultrasound Syllabus

Course Faculty:

John Gibson, MD: jgibsonmd@gmail.com

Learning Support:

Leda Rivera: leda@inmed.us, 816-444-6400

Overview:

Obstetrics care requires critical information about the mother and baby. Ultrasound is an essential technology to supply such vital information. This course develops skills in early pregnancy ultrasound (confirmation, location) and third trimester ultrasound (parity, pulse, pocket, placenta, presentation, postpartum evaluation). This course requires that participants already have attained basic obstetrics skills and experience. The INMED Professional Qualification Course in Obstetrics Ultrasound is a hybrid experience that combines online preparation followed by a one-day, in-classroom event to master hands-on skills and assess achievements. Academic credit earned is 1 credit hour.

Competency Objectives:

At the completion of the INMED Professional Certificate Course in Obstetrics Ultrasound learners will be able to:

- Confirm early pregnancy diagnosis and location
- Identify common gynecological pathology
- Identify the 6 Ps of late pregnancy: parity, pulse, pocket, placenta, presentation, postpartum evaluation

Timeframes:

This Professional Certificate Course is a hybrid experience that combines an online learning experience followed by a one-day, in-classroom event to master hands-on skills and assess achievements.

Academic Credit:

Completion of this course requirements earns one credit hour of academic credit.

Admission Requirements:

- Currently enrolled in Medical; Physician Assistant; APRN program (or)
- Active MD/DO; PA; or APRN clinical license that is in good standing

Computing Requirements:

The following are the minimum computing requirements for participating this course. Students must have ready access to and be functionally proficient with:

- A personal computer with an up-to-date operating system and ample memory for downloads. A rectangular monitor (desktop or tablet) is preferable for course navigation.
- A web browser, preferably the most up-to-date version of Chrome, Internet Explorer, Firefox, or Safari
- Applications capable of opening and editing Microsoft Word documents and of viewing PDFs
- An Internet connection, preferably high speed
- Capability of viewing YouTube and Vimeo videos

Education Methods:

Learners will achieve the course competency objectives through the following education methods:

- Interactive online learning techniques
- Interactive live presentations
- Skill stations for increasing technical proficiency
- Case studies for developing clinical judgment

Assigned Obstetrics Ultrasound Lessons:

Assignments to be completed prior to the in-person classroom event include Pre-Test, Lessons 1-15, and Post-Test for this content

- Lesson 1 Obstetrics Ultrasound Principles
- Lesson 2 Normal Pregnancy
- Lesson 3 Early Pregnancy Complications
- Lesson 4 Later Pregnancy Complications
- Lesson 5 Fetal Heart Ultrasound

In-Person Classroom Event:

Each major topic will begin with a rapid review of anatomy and examples of normal scan planes, followed by supervised, hands-on scanning experience to achieve normal scan planes, ultrasound techniques and equipment control.

8:00am	Principles of US equipment use and image optimization
8:20	Early pregnancy diagnosis/confirmation and location
8:40	Hands-on Clinical Sessions
12:00	Lunch
1:00	2-3rd Trimester Ultrasound Evaluation. Late pregnancy fetal parity (number)/pulse (fetal heartbeat)/ pocket (fluid)/ placenta (location)/ fetal presentation/ post-partum evaluation/ late pregnancy placenta (location)/ fetal presentation/ post-partum evaluation.
1:40	Basic gynecological ultrasound (ovarian cysts and uterine masses)
2:00	Hands-on Clinical sessions
3:00	Evaluation of hypotension or shock related to obstetrical hemorrhage
5:00	Conclusion

*In-Person Classroom Event schedule is subject to change

Grading:

This course is graded pass/fail. Successful pass requires:

- Ultrasound for Primary Care Post-Test $\geq 80\%$
- Satisfactory or higher demonstration of all required skills
- Complete course evaluation at the course conclusion.

Final Exam:

Learners will each demonstrate their skills throughout the day under supervision of the ultrasound faculty, who will evaluate learners using a standardized skills checkoff list. Learners must demonstrate satisfactory attainment of all required skills.

Explanation of Assignments:

Participation: Learners are required to fully participate in the course content, including interactive content, pre-test, post-test, and in-person classroom hands-on activities.

Punctuality: This is a professional level course. All assignments are expected to be submitted on time.

Professionalism Requirement: This is a learning experience for professionals. Assignments are expected to be completed with excellence.

Learners whose evaluation is acceptable will receive the *INMED Professional Certificate in Obstetrics Ultrasound*. Those learners whose evaluation is not acceptable will receive a certificate of participation and the opportunity to remediate.

Remediation:

If a learner does not complete this course and achieve the required competencies, the faculty may require the learner to 1) remediate the component(s) that the learner did not satisfactorily complete, or 2) repeat the entire course within one year of the start date of the original course. The learner will be offered only one opportunity to repeat the course without requiring repeat payment of tuition.

Academic Integrity:

This is a professional-level learning experience. All learners are expected to be self-motivated, to perform with excellence, and to be thoroughly honest throughout their process of learning. If any INMED faculty determines that a learner has committed academic dishonesty by plagiarism, cheating or in any other manner, the faculty member has the right to 1) fail the learner for the particular assignment, project and/or exam, 2) fail the learner for the entire course, 3) discharge the learner from any future INMED learning experience, including degree, diploma, or certificate completion.

Course Faculty:

John Gibson, MD, DIMPH
INMED Adjunct Professor

Dr. Gibson is Director of Rural and Global Health Education at University of North Texas Health Sciences Center. He is also teaches ultrasound for both

UNTHSC medical students and for family medicine residents at John Peter Smith Hospital, including obstetrical ultrasound applications. Dr. Gibson lived in Thailand from 1984-2004, training medical personnel and providing care for marginalized people throughout the nation. Dr. Gibson is a certified diagnostic ultrasound instructor.