

**University of Arkansas - Fort Smith**  
**5210 Grand Avenue**  
**P. O. Box 3649**  
**Fort Smith, AR 72913-3649**  
**479-788-7000**

## **General Syllabus**

### **ISS 4501 Professional Seminar**

Credit Hours: 1

Lecture Hours:

Laboratory Hours: 2

Prerequisite: Successful completion of first four semesters in the diagnostic medical sonography program

Corequisites: ISS 4513 Obstetrical and Gynecological Sonography II and ISS 4544 Clinical Practice IV

Effective Catalog: 2018-2019

#### **I. Course Information**

##### **A. Catalog Description**

Review of essential topics, facts and principles required to pass the four ARDMS (American Registry of Diagnostic Medical Sonographers) national boards. Simulated ARDMS registry examinations based on the ARDMS outline is administered to students to examine progress and assess strengths and weaknesses. Recent applications, skills, knowledge, behaviors and/or attitudes pertinent to the technology or profession and relevant to the professional development of the student is addressed.

##### **B. Additional Information - None**

#### **II. Student Learning Outcomes**

##### **A. Subject Matter**

Upon successful completion of this course, the student will be able to:

1. Assess recent developments and future technology related to Diagnostic Medical Sonography.
2. Defend and validate knowledge and understanding of acoustical physics and sonographic equipment on simulated certification examinations.
3. Defend and validate knowledge and understanding of abdominal, vascular, and obstetrical and gynecological sonographic anatomy and scanning protocols on simulated certification examinations.

4. Defend and validate knowledge and understanding of superficial and small body part sonographic anatomy and scanning protocols on simulate certification examinations.

## **B. University Learning Outcomes**

This course enhances student abilities in the following areas:

### **Analytical Skills**

**Critical Thinking Skills:** Students will access and evaluate appropriate information through written and electronic means by taking multiple exams over abdominal, obstetric/gynecological, and vascular sonography.

**Quantitative Reasoning:** Students will assign and use numbers, read and analyze data, create models, draw inferences, and support conclusions based on computed exams taken throughout the semester.

## **III. Major Course Topics**

- A. Review of Anatomy, Physiology, and Pathology in Cross-Sectional Planes
- B. Review of Acoustical Physics and Instrumentation
- C. Review of Abdominal, Obstetric, and Gynecological Scanning Protocols
- D. Review of Abdominal, Obstetric, and Gynecological Scanning Techniques
- E. Miscellaneous Review and Discussion of Professionally Related Topics