

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

### **General Syllabus**

#### **ISS 4434 Clinical Practice III**

Credit Hours: 4

Lecture Hours:

Laboratory Hours: 20

Prerequisite: ISS 4323 Clinical Practice II

Corequisites: ISS 4403 Pathophysiology and Special Applications, ISS 4413 Abdominal Sonography II, and ISS 4433 Vascular Sonography II

Effective Catalog: 2018-2019

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

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

Continued application of sonographic scanning procedures in a hospital or clinic setting with independent scanning when competency has been demonstrated. Special emphasis will be placed on the pancreas, kidneys, spleen, superficial parts, pelvis, abdominal vasculature, peripheral arterial and venous system, and cerebrovascular system. The production and interpretation of normal and pathologic sonograms along with film critique are critical components.

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

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

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

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

1. Integrate appropriate scanning procedures and protocols in the longitudinal and transverse planes for sonograms of the urinary tract, spleen, aorta, inferior vena cava, small parts (thyroid gland, parathyroid glands, breast, extremities, scrotum, and prostate), superficial structures (hematomas, abscesses, etc.) and gastrointestinal tract (appendix, diverticulitis, intussusceptions, etc.). Adapt protocols for difficult scans.
2. Evaluate normal and abnormal urinary tract, spleen, aorta, inferior vena cava, small parts (thyroid gland, parathyroid glands, breast, extremities,

- scrotum and prostate), superficial structures (hematomas, abscesses, etc.), and gastrointestinal tract (appendix, diverticulitis, intussusceptions, etc.).
3. Defend competency in scanning compete examinations in the following: non-gravid female pelvis (uterus, ovaries, and adnexal area), pediatric pelvis and early intrauterine pregnancy.
  4. Complete required clinical proficiencies as indicated in the clinical handbook.
  5. Master all Clinical Practice III performance objectives.

## **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 in order to access their patients previous medical history and/or exams while following HIPAA guidelines. Students will think critically to reach viable solutions to a problem and to justify those solutions in order to produce quality sonographic images.

**Quantitative Reasoning:** Students will represent mathematical information symbolically, visually, numerically and verbally and interpret models and data in order to draw inferences relating to sonographic measurements of organs and obstetric calculations.

### **Communication Skills (written and oral)**

Students will effectively communicate orally in a public setting including with physicians, technologists and patients.

### **Ethical Decision Making**

Students will understand the UA Fort Smith Standards of Conduct and Academic Honesty policies and apply these standards to particular fact situations. Students will apply ethical concepts and rules to determine viable alternative in any given situation as well as following HIPAA guidelines.

## **III. Major Course Topics**

- A. Sonographic Equipment for Imaging the Abdomen and Small Body Parts
- B. Sonographic Procedures for the Pancreas
- C. Sonographic Procedures for the Kidneys and Bladder
- D. Sonographic Procedures for the Spleen
- E. Sonographic Procedures for Superficial Parts
  1. Peripheral Vasculature
  2. Thyroid and Parathyroid
  3. Breast
  4. Extremities
  5. Scrotum and Prostate