

**University of Arkansas - Fort Smith**  
**5210 Grand Avenue**  
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**479-788-7000**

### **General Syllabus**

#### **ISL 4403 Independent Study in Imaging Sciences**

Credit Hours: 3

Lecture Hours: 0

Independent Study Hours: 3

Prerequisite: admission into the BSIS-Leadership program

Effective Catalog: 2018-2019

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

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

Supervised investigation of an advanced imaging science topic. Faculty consultation and approval of topic required.

##### **B. Additional Information**

This course should follow Research in the Health Sciences as a continuation of that course. Independent Study allows students the opportunity to develop an intervention method, assessment tool, survey or step-by-step research/design to be used to conduct a research study and may be based on the research proposal submitted in Research in the Health Sciences course. This intervention will then be implemented.

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

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

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

1. Identify an area in imaging sciences to investigate.
2. Develop a project proposal.
3. Design an action plan to include method of data collection and analysis.
4. Create an intervention tool.
5. Evaluate possible outcomes in a written project report.

##### **B. University Learning Outcomes**

This course enhances student abilities in the following areas:

##### **Analytical Skills**

**Critical Thinking Skills:** Students will identify a problem or issue with medical imaging. Students will appraise various forms of research regarding the issue identified.

**Communication Skills (written and oral)**

Students will compose a research proposal for their topic.

**Ethical Decision Making**

Students will identify ethical dilemmas related to medical imaging and critically think solutions.

**III. Major Course Topics**

Student's Choice of Topic within the confines of Medical Imaging – Requires Faculty Approval