



## Master Course Syllabus

### Ultrasound Capstone – DMS 2089

#### Purpose of Document

This document contains important information for transfer. It may be helpful for you to retain a copy for your records, along with the class specific syllabus. This document will be especially helpful if you decide to later change your course of study.

Pikes Peak State College and the Colorado Department of Higher Education have determined that graduates should have a broad range of learning skills as well as discipline related skills. Both types of skills are detailed below.

#### Course Description

Provides a comprehensive review and final assessment of the student's knowledge and skills in diagnostic medical sonography. Focuses on registry preparation, clinical case study presentation, and professional transition into the workforce.

Credit Hours: 2

Contact Hours: 30

#### Required Course Learning Outcomes

1. Synthesize core concepts of ultrasound physics, abdominal, and OB/GYN sonography in preparation for national certification examinations (ARDMS/ARRT).
2. Analyze and present complex clinical case studies, correlating sonographic findings with patient history and other diagnostic modalities.
3. Demonstrate entry-level scanning proficiency and diagnostic reasoning across multiple sonographic specialties.
4. Develop professional career materials, including a comprehensive portfolio and resume, tailored to the sonography industry.
5. Evaluate ethical dilemmas and legal responsibilities inherent in professional sonography practice.

#### Topical Outline

- I. National Certification Exam Preparation
  - a. Review of Sonography Principles and Instrumentation (SPI)
  - b. Specialty-specific review (Abdomen, OB/GYN, etc.)
  - c. Test-taking strategies and mock examinations
- II. Clinical Case Study Synthesis
  - a. Selection and documentation of significant clinical cases
  - b. Correlation of sonographic images with pathology and lab data
  - c. Professional presentation techniques for clinical findings
- III. Professional Transition and Career Readiness
  - a. Resume and cover letter development for healthcare

- b. Interviewing skills and professional networking
  - c. Continuing education and professional development requirements
- IV. Final Competency and Program Assessment
- a. Comprehensive knowledge assessment
  - b. Final clinical skills validation
  - c. Program evaluation and feedback