

**Course Objectives/Course Outline**  
**Spokane Community College**

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**Course Title:** Diagnostic Ultrasound; 2<sup>nd</sup> and 3<sup>rd</sup> trimester

**Prefix and Course Number:** SONO 141

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**Course Learning Outcomes:**

**By the end of this course, a student should be able to:**

Ultrasonic procedures and techniques utilized within the OB/GYN specialty are discussed. Scanning techniques, pathology and ethical issues are also included. Laboratory experience is provided using ultrasound simulation to develop normal and abnormal anatomy identification.

- Demonstrate a comprehensive knowledge of the anatomy, physiology, pathophysiology, and sonographic appearances of the 2<sup>nd</sup> and 3<sup>rd</sup> trimester.
- Discuss fetal development and growth, clinical indications for obstetrical sonograms and sonographic characteristics of normal and abnormal gravida uterine anatomy specific to each trimester as it applies to the performance of high quality examinations.
- Discuss sonographic images taken of the mother and fetus in the 2<sup>nd</sup> and 3<sup>rd</sup> trimesters.
- Minimize exposure to medical legal consequences as it relates to their professional scope of practice through education in legal process, principles of decision making, ethical dilemmas, HIPAA (Health Insurance Portability and Accountability Act), and coding and reimbursement.
- Use proactive techniques and proper ergonomics to minimized and/or prevent short and long-term consequences of scanning [work-related musculoskeletal disorders] to achieve career longevity.
- Learn to communicate effectively with patients, the public, and the healthcare team through oral and written methods using proper grammar and sentence. Communication skills are important in insuring that the patient will receive appropriate care.

**Course Outline:**

- I. Sonography in Pregnancy
  - A. Fetal age, size
  - B. 2<sup>nd</sup> and 3<sup>rd</sup> Trimester
    1. Fetal head, neck, spine
    2. Fetal Chest, Abdomen, Pelvis
    3. Fetal Echo
    4. Fetal Limbs
    5. Fetal Doppler
    6. Placenta, Umbilical Cord
    7. Maturation
    8. Multiple Gestations
    9. IURG
    10. Neonatal Neurology
- II. Maternal Disease
  - A. Gestational Disease
  - B. Postpartum
- III. Ethical Issues
  - A. Amniocentesis
  - B. Controversies