

Course Objectives/Course Outline
Spokane Community College

Course Title: Diagnostic Ultrasound III

Prefix and Course Number: SONO 131

Course Learning Outcomes:

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

This course is an investigation of the application for ultrasound in the abdomen, small parts and intraoperative. The Pathophysiology of the abdomen, small parts and intraoperative applications is discussed. Emphasis is on the technique and image assessment. Both normal and abnormal anatomy is identified. Laboratory experience is provided.

- Demonstrate understanding of normal abdominal anatomy and physiology.
- Demonstrate understanding of normal small structure anatomy and physiology.
- Identify generally accepted protocols for obtaining high quality abdominal ultrasound images.
- Accurately identify ultrasound images of normal an abnormal abdominal organs and small structures.
- Demonstrate basic scanning skills of abdominal organs on volunteer subjects.
- Demonstrate appropriate level of professional skills in interaction with volunteer subjects to comply with HIPPA guidelines and the Notice of Privacy Practices.

Course Outline:

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|------|------------------------------------|------|------------------------------|
| I. | Abdominal Wall & Peritoneal Cavity | B. | Anatomy, Physiology |
| | A. Normal & Abnormal | C. | Laboratory Data |
| | B. Sonographic Imaging | D. | Diseases and Pathophysiology |
| II. | Vascular Structures | E. | Sonographic Imaging |
| | C. Normal & Abnormal | VII. | Spleen |
| | D. Anatomy, Physiology | A. | Normal & Abnormal |
| | E. Diseases and Pathophysiology | B. | Anatomy, Physiology |
| | F. Sonographic Imaging | C. | Laboratory Data |
| III. | Liver | D. | Diseases and Pathophysiology |
| | A. Normal & Abnormal | E. | Sonographic Imaging |
| | B. Anatomy, Physiology | IX. | Gastrointestinal Tract |
| | C. Laboratory Data | A. | Normal & Abnormal |
| | D. Diseases and Pathophysiology | B. | Anatomy, Physiology |
| | E. Sonographic Imaging | C. | Laboratory Data |
| IV. | Gallbladder & Biliary Tree | D. | Diseases and Pathophysiology |
| | A. Normal & Abnormal | E. | Sonographic Imaging |
| | B. Anatomy, Physiology | X. | Scrotum & Prostate |
| | C. Laboratory Data | A. | Normal & Abnormal |
| | D. Diseases and Pathophysiology | B. | Anatomy, Physiology |
| | E. Sonographic Imaging | C. | Laboratory Data |
| V. | Pancreas | D. | Diseases and Pathophysiology |
| | A. Normal & Abnormal | E. | Sonographic Imaging |
| | B. Anatomy, Physiology | XI. | Thyroid & Parathyroid |
| | C. Laboratory Data | A. | Normal & Abnormal |
| | D. Diseases and Pathophysiology | B. | Anatomy, Physiology |
| | E. Sonographic Imaging | C. | Laboratory Data |
| VI. | Kidneys & Urinary Bladder – Normal | D. | Diseases and Pathophysiology |
| | A. Normal & Abnormal | | |

Print Date: 8/5/14

- XII. E. Sonographic Imaging
- Retroperitoneum
 - A. Normal & Abnormal
 - B. Anatomy, Physiology
 - C. Laboratory Data
 - D. Diseases and Pathophysiology
 - E. Sonographic Imaging

- VIII. Breast
 - A. Normal & Abnormal
 - B. Anatomy, Physiology
 - C. Laboratory Data
 - D. Diseases and Pathophysiology
 - E. Sonographic Imaging