Midland College  
Syllabus  
Spring 2008  
DMSO 1360  
Clinical I  
(0-0-15)

Course Description: A method of instruction providing detailed education, training and work-based experience and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation, and placement is the responsibility of the college faculty.

Text, References, and Supplies: Society of Diagnostic Medical Sonography Educational Foundation, SCAN® (Sonography Clinical Assessment Notebook), Dallas, Texas.

Course Goals/ Objectives: The following list of course goals will be addressed in the course. These goals are directly related to the performance objectives.

- complies with policies and guidelines of the program and clinical affiliate.
- demonstrate legal and ethical behavior.
- demonstrate interpersonal and teamwork skills with fellow professionals.
- demonstrate appropriate safety practices within the clinical setting.
- demonstrate communication skills necessary in the occupation.
- evaluates patient needs and responds appropriately.
- demonstrates patient acoustic characteristics, selecting, maintaining, and adjusting equipment to provide optimal sonographic evaluation.
- identifies, evaluates, and provides quality examinations to all patients, applying professional judgement and discretion.
- functions as an efficient and effective employee in a health care environment.
- demonstrates clinical competency by successfully completing required performance objectives.

Objectives: The student will:

1. Comply with policies and guidelines of the program and clinical affiliate.
   1. Complies with program attendance policies and procedures as stated in the Midland College Handbook.
   2. Complies with clinical affiliate policy and protocol in the performance of ultrasound exams.

2. Demonstrates appropriate legal and ethical behavior in the workplace.
   1. Maintains appropriate medical records as required by law.
   2. Maintains patient confidentiality and patient’s right to privacy.
   3. Performs within the Scope of Practice as outlined in the student handbook.

3. Demonstrates interpersonal and teamwork skills with fellow professionals.
   1. Conveys findings to physician/radiologist using proper medical terminology.
   2. Seeks supervision and guidance from fellow sonographers when necessary.
   3. Works with nursing and other ancillary staff in efficiently providing care.
   4. Shares knowledge with physicians, fellow sonographers, and other students.
   5. Is receptive to suggestions or corrections and responds appropriately.

4. Demonstrate appropriate safety practices within the clinical setting.
   1. Provides a safe environment for patients, coworkers and self.
2. Utilizes Universal Precautions as published by the CDC.

3. Utilizes proper lifting and transfer techniques.

4. Demonstrates proper hand washing and infection control procedures.

5. Demonstrates prudent use of ultrasound and adheres to ALARA principles.

6. Evaluates patient needs and responds appropriately.
   1. Evaluates the patient’s comfort and climate requirements.
   2. Protects the patient’s modesty.
   3. Anticipates patient’s needs and provides required assistance.
   4. Implements emergency life support as necessary.
   5. Seeks supervision and guidance as needed.
   6. Ensures and provides for the patient’s protection.

7. Demonstrates patient acoustic characteristics, selecting, maintaining, and adjusting equipment to provide optimal sonographic evaluation.
   1. Selects appropriate transducer and equipment for the examination.
   2. Sets and adjusts equipment parameters to obtain appropriate images.
   3. Obtains required images and views of anatomy and pathology to demonstrate to radiologist/physician.
   4. Annotates and identifies images with correct patient identification and orientation.
   5. Operates and maintains recording/photographic devices.

8. Identifies, evaluates, and provides quality examinations to all patients, applying professional judgement and discretion.
   1. Implements examination protocols as required by the clinical affiliate.
   2. Demonstrates sonographic anatomy and pathology.
   3. Describes anatomy and pathology using sonographic terminology.
   4. Creates optimal images on each and every patient.
   5. Correlates sonographic findings with appropriate patient history and laboratory data.
   6. Implements additional sonographic images of other organs or systems that may contribute to or be affected by any abnormal findings in the requested exam.

9. Functions as an efficient and effective employee in a health care environment.
   1. Performs record keeping as required by the clinical affiliate.
   2. Utilizes phone and computer systems effectively within the scope of the ultrasound department.
   3. Transports and transfers patients and equipment as necessary.
   4. Observes and reports incidents and equipment malfunction as necessary.
   5. Attends inservice meetings and staff meetings as necessary.
   6. Familiarizes self with department and facility policy.
   7. Demonstrates speed and efficiency while obtaining appropriate images and exams.

pertainent clinical information from the patient.

4. Elicits patient cooperation while performing the examination.

5. Provides required information to other health care workers involved in the patient’s care and treatment.

1. Introduces self to patient and attending family members.

2. Explains examination to patient and attending family members at an appropriate level.

3. Obtains
nstrates clinical competency by successfully completing required performance objectives.

1. Identifies and demonstrates the following liver structures in multiple planes:
   a. Right lobe
   b. Left lobe
   c. Caudate lobe
   d. Porta hepatis
   e. Hepatic veins
   f. Portal veins
   g. Diaphragm
   h. Hepatorenal space (Morrison’s pouch)

2. Identifies and demonstrates the following biliary tree structures in multiple planes:
   a. Gallbladder (neck, body, and fundus)
   b. Intrahepatic bile ducts
   c. Extrahepatic bile ducts

3. Identifies and demonstrates the pancreas and related structures in multiple planes:
   a. Pancreatic head, neck, body and tail
   b. Splenic vein
   c. Superior mesenteric vein
   d. Common bile duct
   e. Pancreatic duct

4. Identifies and demonstrates structures of the urinary tract in multiple planes:
   a. Right kidney and ureter
   b. Left kidney and ureter
   c. Bladder
   d. Prostate gland

5. Identifies and demonstrates the great vessel in multiple planes:
   a. Proximal, mid and distal aorta
   b. Bifurcation
   c. Inferior vena cava
   d. Iliac arteries

6. Identifies, demonstrates and measures the spleen in multiple planes.

7. Identifies and demonstrates the organs of the female pelvis in multiple planes using the transabdominal technique:
   a. Uterus and endometrium
   b. Right and left ovaries
   c. Cervix and vagina
   d. Posterior cul-de-sac
   e. Bladder

8. Identifies and demonstrates first trimester pregnancies and pelvic organs in multiple planes using transabdominal technique:
   a. uterus and decidual reaction
   b. Cervix and vagina
   c. Ovaries and adnexal structures
   d. Posterior cul-de-sac
   e. Gestational sac(s)
   f. Yolk sac
   g. Embryo
   h. Cardiac activity
   i. Crown rump length

10.  Demo  

    **Student Contributions and**
Class Policies: in compliance with the policies outlined in the Midland College Handbook and the Sonography Clinical Handbook. The student is expected to maintain a log of clinical experiences and complete all documentation demonstrating proficiency for all assigned clinical competencies.

Evaluation of Students:

Final grade will be a criterion-referenced standard percentage, not curved, composed of 20% from scan lab evaluations, 20% from instructor evaluations, 20% from performance objectives, and 30% for attendance and 10% from case study presentation.

Course Schedule:

TBA

SCANS Information:

The following SCANS skills will be taught and/or reinforced for this course:

**Foundation**

*Basic Skills*  
reading; writing; arithmetic/mathematics; listening; speaking

**Workplace Competencies**

*Technology*  
selects technology; applies technologies to task; maintains and troubleshoots equipment

Safety Training:

Students receive annual training in the following: Blood and air borne pathogens, electrical safety, back safety, hazardous chemicals, latex allergies, fire and disaster procedures, security and personal safety procedures and safety requirements of clinical facilities. Students must maintain current CPR, immunizations, and health insurance during all clinical courses.

Instructor Information:
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