**COURSE CREDIT:**  8 credits

**SEMESTER SEQUENCE:**  Fall 2021

**TIME:** M, T, W, F

**PREREQUISITE:**  DMS Summer Semester Completed

**CLINICAL COORDINATOR:** Chelsie Wheatley, BSRS, BSDMS, R.T.(R) (ARRT), RDMS (AB, OB, B), RVT

**CLINICAL INSTRUCTORS:**  As Assigned

**OVERVIEW:**

DMS 4492 provides the student with practical experience with a hospital or imaging center. This course continues to instruct the student in hospital and department policies, clerical and technical procedures, and patient care in the Sonography Department.

The student will perform diagnostic medical sonography studies under the supervision of a registered sonographer. Students will become competent in Sonographic evaluation of the liver, peritoneum and pleural cavities, pancreas, spleen, kidneys, bladder, GYN Transabdominal and Transvaginal, First Trimester OB (both transabdominal and transvaginal), Abdominal doppler, Male Pelvis (Prostate) Transabdominally, Abdominal Invasive Procedures (Paracentesis, Aspiration, Liver biopsy, etc.), Carotid arteries, Venous lower extremities, and a Complete abdomen examination.

In this course, students will be instructed in the utilization of sonography equipment, accessories, optimal imaging and scanning factors, and proper patient care. These practices will demonstrate the ALARA (as low as reasonably achievable) principle in sonography.

**Course Learning Objectives/Goals:** During the clinical rotation, the students will observe and practice proper patient care and image acquisition in Sonography, specifically abdominal organs, pelvic organs, lower extremity venous, and carotid arteries. They will demonstrate knowledge of “knobology” and physical principles of sonography, as well as continue to learn how to maneuver and select the transducers for each exam.

**Learning Outcomes:**

**This clinical experience will enable the student to:**

* Demonstrate in a clinical setting what has been taught in a laboratory experience at the college.
* Evaluate a sonographic requisition
* Prepare the exam room and assess the patient by using patient management skills which have been taught didactically.
* Adapt standard sonographic practices to varying clinical situations.
* Demonstrate professional behavior.
* Select transducer and set knobology to produce quality diagnostic images.
* Critique sonographic images performed in a clinical setting.

**SUPERVISION:**

Direct Supervision—

1. A registered diagnostic sonographer reviews the request for the examination, and evaluates the condition of the patient in relation to the student’s level of achievement.
2. A registered sonographer reviews and approves the sonographic images.
3. A registered sonographer will be present during the conduct of the procedure.
4. A registered sonographer will not allow the student to make an obvious mistake, e.g. incorrect transducer selection, exam presets, knobology, poor image quality or acquisition.

Indirect Supervision –

Supervision that is provided by a registered sonographer immediately available to assist the student regardless of the level of student achievement. “Immediately available” refers to the presence of a registered sonographer adjacent to the room or location where the procedure or examination is being performed.

\*Students may be permitted to perform a procedure or examination with indirect supervision **ONLY** after demonstrating competency in that procedure. **This is at the discretion of the registered sonographer**.

**MANDATORY COMPETENCIES:**

 Students must demonstrate competencies in twenty one (21) required exams (17 competencies, 2 electives, 2 continued competencies). Exam competency grades will be averaged to determine 50% of semester grade.

 Clinical instructors must record points earned for each competency. Competency cannot be achieved in an exam that requires a registered sonographer’s help with scanning or knobology.

 **Students may not perform a competency in an exam which they haven’t covered in class.**

 Clinical competency sheets will be submitted to the program at mid-term and at the end of the semester.

**COGNITIVE ASSESSMENT:**

Students will be evaluated on sonographic anatomy, transducer selection, image quality, and image critique on all required competencies by the affiliate clinical instructor.

**ATTENDANCE:**

1. The students must complete all clinical hours that have been assigned.
2. Students must sign in and out of clinical using the designated computer and Web address. Cumulative attendance records will be maintained; students will submit monthly attendance records.
3. Absences: Students must call the clinical instructor when they cannot attend. No final grade will be reported until clinical time is completed. The student will make his/her arrangements for make-up time with the clinical instructor. Extended absences will be handled on an individual basis with the clinical coordinator and clinical instructor. Students may not accumulate compensation time. Make-up time in the clinical area can be made up in **2-hour increments** (2 hours or greater) only.
4. Clinical instructors must document that the student has attended clinical for the required number of hours per semester.

**CLINICAL GRADE:**

Clinical Evaluations 30% (15% for Mid-term Eval, 15% for Final Eval)

Exam Competency Grade 50%

\*Attendance 20%

**Total 100%**

\*Professional students: If 17 or more hours of **scheduled** clinical time are missed per semester, the student will receive a full letter grade deduction at the discretion of the program director.

\*Extreme family circumstances, immediate family death, or medically excused absence are the only exceptions and must be approved by the program director.

Forms without appropriate signatures will be returned and no grade will be reported.

**GRADING SCALE:**

**This grading scale will be used:**

|  |  |
| --- | --- |
| +/- System |  |
| 93-100% A | 73-76% C |
| 90-92% A- | 70-72% C- |
| 87-89% B+ | 67-69% D+ |
| 83-86% B | 63-66% D |
| 80-82% B- | 60-62% D- |
| 77-79% C+ | 59% Below F |

**MIDTERM GRADES:**

Clinical Instructors must complete Mid-term Clinical Evaluations by the end of mid-term week. It is the **student’s** responsibility to submit these required documents (Mid-term Eval and Exam Competency sheet) by the end of mid-term week.

**FINAL GRADES:**

Clinical Instructors must complete Final Clinical Evaluations, Exam Competency Sheets, Monthly Attendance Assignments on students. These may be faxed to 208-282-4645 or submitted by the student. It is the **student’s** responsibility to submit these required documents by the end of the closed week.

It is the student’s responsibility to request an appointment with the clinical instructor for mid-term and final clinical evaluations. Evaluations must be signed by the clinical instructor and the student.