**COURSE CREDIT:** 1 Credit

**SEMESTER SEQUENCE:** Summer

**TIME:** Thursdays

**LOCATION:** NURS Rm 120

**PREREQUISITE:** Acceptance into the Diagnostic Medical Sonography Program or ISU Faculty Approval

**FACULTY:** Chelsie Wheatley, BSRS, BSDMS, RT(R), RDMS, RVT

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**OVERVIEW:**

DMS 4400 provides an introduction to the profession of sonography and examines the role of the sonographer. An introduction will be provided for general sonography, cardiac sonography, vascular technology and typical career opportunities available in this field. It will review a history of sonography, patient care, sonographer safety issues, and the legal and ethical aspects of the occupation.

**COURSE LEARNING OBJECTIVES/GOALS:**  This course has been designed to be an introductory course that will open up the field of sonography as a career. During the course, the students will learn a brief history of sonography as well as a review on patient care. Students will be required to demonstrate knowledge of sonography safety issues, legal and ethical aspects of sonography, and sonographic procedures.

**REQUIRED TEXT:**  M. Robert De Jong, Jr. (2018). *Craig’s Essentials of Sonography and Patient Care,* 4th Edition, Elsevier ISBN 978-0-323-41634-4

**METHOD OF PRESENTATION:** Lecture, PowerPoint, Moodle supplement and handouts

**CODE OF ETHICS:** DMS 4400 adheres to the ISU Code of Conduct.  In particular, academic dishonesty, however small, creates a breach in academic integrity.  A student's participation in this course comes with the expectation that his or her work will be completed in full observance of the ISU Code of Student Conduct.

**STUDENT RESPONSIBILITIES:** Attend ALL course lessons and complete all assignments by due dates at 11:59pm MST. Excess absences will result in a lower course grade.

Rules: Show up, be on time, do the work, participate, and be honest!

**FACULTY COMMUNICATION:** If you have questions, concerns, or would like further assistance after attending scheduled classroom activities, PLEASE MAKE AN APPOINTMENT. When using email, please place course number and name in the subject line.

**COURSE LEARNING OUTCOMES:**

* Identify key events in the development of ultrasound
* Define empathy, compassion, communication, and discuss what role they play in the patient care experience.
* List important communication skills
* Discuss how patient consent, privacy, and chaperones are important for the sonographer.
* Discuss and compare special considerations of patient care when performing an invasive ultrasound as well as ultrasounds of sensitive areas of the body.
* Discuss prevalence, causes, and risks of musculoskeletal injuries in the field of sonography.
* Identify causes and risk factors of work-related MSK disorders and injuries associated with scanning.
* Describe the biologic tissue response to improper posture and scanning techniques.
* Discuss ergonomic methods of prevention of MSK injuries.
* Name 3 strategies for combating unhealthy stress in the workplace.
* Understand obligations of the sonographer to patients, employer, and self.
* Discuss safety considerations associated with patient care.
* Identify good health and hygiene practices as well as discuss the sonographer’s role in infection control.
* List the major specialty sonographic examinations.
* Describe and demonstrate the patient positions commonly used in sonography.
* Discuss patient preparations for abdominal, vascular, OB/GYN and cardiac sonography.
* Describe the basic components of the four major specialty scanning protocols.
* Identify the findings and normal values of Lab results related to abdominal and OB sonography.
* Describe professional accountability
* Discuss steps sonographers should take to protect themselves against malpractice suits.
* Describe the sonographer’s role in relation to medical ethics.
* Discuss the importance of professional confidentiality.
* Describe the functional skills expected of a diagnostic medical sonographer.
* Discuss the need for continuing education

**ACADEMIC DISHONESTY POLICY:**  Academic dishonesty (cheating, plagiarism, etc.) will not be tolerated in this class and may result in suspension or dismissal from this course and from the program. Cases will also be referred to the Dean of Students for possible dismissal from the university.  Cheating includes, but is not limited to, (1) use of any unauthorized assistance in taking quizzes, tests, or examinations; (2) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or completing other assignments; or (3) the acquisition of tests or other academic materials belonging to the university faculty or staff without permission. Plagiarism includes, but is not limited to, the use of, by paraphrase or direct quotation without correct recognition, the published or unpublished works of another person. The use of materials generated by agencies engaged in "selling" term papers is also plagiarism. Many components of DMS 4400 are designed to be highly interactive.  Students are encouraged to take full advantage of the many resources available including Internet sites, handouts and workbooks, other textbooks and journals, faculty, and peers. This interactive collegial learning environment is conducive for life-long learning.

**Grading Procedure:**

|  |  |
| --- | --- |
| **Assessment Method** | **Percentage Value** |
| Test #1 = Chapters 1-6 | 40% |
| Test #2 = Chapters 7-9 | 40% |
| Class Participation | 10% |
| Article Quiz | 10% |
| Total | 100% |

**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 |

3. **Computer Account:** All students are required to have an ISU student computer account.  There is no fee required for this account. Obtain the account at the Computer Center, which is located in the basement of the College of Business Building or in the Rendezvous Lab.

4.  **Make-up:** If you are unable to sit for an examination, you may request a make-up exam.  You must inform me that you will not be present for the examination **prior** to the scheduled time.  An additional 10% drop in the test grade will result if prior notification is not given and is not accepted by me prior to taking the test.  The highest grade you can receive for a make-up exam is 89% unless you provide me with an acceptable excuse. An acceptable excuse is defined **as very** sick; a death in the immediate family; some unforeseen circumstance that would prohibit you from taking the exam. The key is to communicate with me directly via email, phone, or in person. Do not speak to another faculty member or the department secretary. I’m very easy to catch with email, but make sure your email is received by me prior to the test deadline.

*In addition, it is a requirement to take all tests offered during the semester.  An incomplete will be issued for the class if a test is not taken.*

**Cell phone policy:** Cell phones should not be used in class. They should be place in silent or vibrating mode or turned off. Additionally receiving and retrieving text messages should not occur during class or in labs. Failure to follow this policy will result in a deduction of grade up to 10% at the discretion of the instructor. If you need to communicate to someone outside of the class in an emergency situation please inform the instructor so accommodations to this policy may be made.

**Disability Services:** Students with disabilities who wish to have accommodations provided by the University must self-identify with Disability Services (208-236-3599) in order to have accommodations provided. Information and applications are available in the Center and may be picked up in person or requested by telephone. The URL is <http://www.isu.edu/ada4isu/>