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| **Course Credit:** | 1 Credit |
| **Time and Location:** | Thursday: Class  NURS Rm 120 |
| **Instructor:** | Chelsie Wheatley, BSRS, BSDMS, RT(R), RDMS, RVT |
| **Phone:** | 208-282-3311 or 282-4042 (Secretary, Alyssa) |

**Overview:** This course covers a number of common case studies and teaching files presented with images in different projections to point out specific features, anomalies, pathology, or disease processes. Information gathered in this course will be used to further sonographic practice and to assist the student in passing the ARDMS specialty examination. It will give students a deeper understanding for various pathologies, scanning techniques, and physics principles.

**Textbooks:** No textbook will be necessary for this course however, students must have a current student SDMS membership.

**Method of Presentation:**  Lecture, PowerPoint, SDMS Webinars, Student Presentations, Moodle Supplement

**Code of Ethics:** DMS 4413 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.

**Course Learning Objectives/Goals:** This course has been designed to further the understanding of pathologies, normal function, and physics principles of sonography. It is meant to help bridge the gap between the class setting and the clinical field. It will help prepare the student sonographers for the many different things they will see during their career. By the end of this course, the student will demonstrate further understanding of abdominal vasculature, liver pathologies, the female pelvis, gallbladder and biliary tree pathologies, the spleen, infertility issues, and physics.

**Course Learning Outcomes:**

* Demonstrate understanding of abdominal aortic aneurysms, their cause, risks, sonographic appearance, and clinical presentation.
* Discuss findings in online webinars relating to abdominal vasculature abnormalities.
* Identify multiple liver pathologies and explain them in depth.
* Discuss different techniques for accurate hemodynamic analysis.
* Define multiple female pelvic pathologies and identify them sonographically.
* Identify gallbladder pathologies and compare and contrast them.
* Explain biliary ductal abnormalities.
* Discuss female infertility and the protocols for scanning patients receiving care for this.
* Identify splenic abnormalities and discuss them.
* Discuss inclusion and diversity in Healthcare.
* Define the importance of ergonomics and the possibilities for MSK injuries in the field of sonography.

**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.

***When students submit their efforts for grading, they are attesting that they have abided by these rules.***

**Classroom Procedure:**

1.  **Attendance:**  You are expected to attend class regularly.  It is your responsibility to maintain a level of attendance which will allow you to derive maximum benefit from the instruction.  Excessive absences (>10%) will result in a lower course grade if you are borderline between two grades.  You are expected to present on every topic assigned. If you miss a day of presentations, it is your responsibility to find a time to present to the class.

2.  **Grading Procedure:**

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| **Assessment Method** | **Percentage Value** |
| Presentations | 60% |
| Webinars | 40% |
| Total | 100% |

**This grading Scale will be used:**

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| +/- 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 |

*Note: A grade of C or better is required in this course in order to receive a degree from the Department of Radiographic Science.*

The minimum requirements to earn a passing grade are successful completion of all tests (70% minimum).

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 present on an assigned topic on the assigned day, you may request a make-up time to present.  You must inform me that you will not be present **prior** to the scheduled time.  An additional 10% drop in the presentation grade will result if prior notification is not given and is not accepted by me.  The highest grade you can receive for a make-up presentation 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 presentation deadline.

**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 (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/>