

**University of Nevada, Las Vegas
College of Health Sciences
Department of Health Physics**

- Course Number:** CMI 332
- Course Title:** Magnetic Resonance Imaging Pathology
- Instructors:** Dr. Steen Madsen (Rm. 347, 702-895-1805)
steen.madsen@unlv.edu
- Prerequisite:** CMI 330, or consent of instructor.
- Credit Hours:** 3
- Description:** Study of magnetic resonance imaging pathology. Structural abnormalities and metastatic and benign tumors will be emphasized.
- Objectives:** Upon successful completion of this course, the student should be able to identify normal structures and common disease states using magnetic resonance images.
- Schedule:** One, 2.5-hour class period: Mon. 4:00 – 6:45 pm, BHS-210
- Office Hours:** Mon. 2:45-3:45 pm and by appointment.

Instructional Methodology:

1. Teaching Methods
 - a. Lectures
 - b. Case presentations

2. Teaching Aids
 - a. Videos/DVDs
 - b. Whiteboard
 - c. Handouts

3. Students will be responsible for
 - a. All lecture material
 - b. All video/DVD presentations

Student Evaluation:

Each student will present two MR cases. Each case presentation is worth 20%. In addition, 2 mid-terms will be given (25% each). The distribution of grades is listed below:

Case presentations (2)	40%
Midterms (2)	60%

Grading:

<i>Grade Points</i>	<i>Letter Grade</i>
94-100	A
90-93	A-
87-89	B+
83-86	B
80-82	B-
77-79	C+
73-76	C
70-72	C-
60-69	D
<60	F

Supplemental Reading:

*Stewart C. Bushong and Geoffrey Clarke, *Magnetic Resonance Imaging: Physical and Biological Principles* (4th ed., 2015).

Outline of Instruction (Tentative):

Date	Topic
Jan. 18	MLK Holiday – No Class
Jan. 25	MR of the Brain – Intro.
Feb. 1	MR of the Brain (oncologic imaging)
Feb. 8	MR of the Brain (hematomas, diffusion weighted imaging, acute brain infarction)
Feb. 15	President’s Day - No class
Feb. 22	No class
Feb. 29	Cerebral Ischemia
Mar. 7	Case Presentation #1 and Cerebral Ischemia
Mar. 14	Exam #1 - Brain
Mar. 21	Spring Break
Mar. 28	MR of the Spine
Apr. 4	Radiologic Evaluation of Low Back Pain
Apr. 11	MR of the Spine; MR of the Breast
Apr. 18	MR from a Technologist’s Perspective – Mr. Chad Hensley
Apr. 25	Musculoskeletal MR – Dr. Joe Parravano
May 2	Case presentation #2 - Spine
May 9	Midterm #2

UNIVERSITY POLICIES:

Academic Misconduct – Academic integrity is a legitimate concern for every member of the campus community; all share in upholding the fundamental values of honesty, trust, respect, fairness, responsibility and professionalism. By choosing to join the UNLV community, students accept the expectations of the Student Academic Misconduct Policy and are encouraged when faced with choices to always take the ethical path. Students enrolling in UNLV assume the obligation to conduct themselves in a manner compatible with UNLV's function as an educational institution.

An example of academic misconduct is plagiarism. Plagiarism is using the words or ideas of another, from the Internet or any source, without proper citation of the sources. See the Student Academic Misconduct Policy (approved December 9, 2005) located at: <http://studentconduct.unlv.edu/misconduct/policy.html>.

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Religious Holidays Policy – Any student missing class quizzes, examinations, or any other class or lab work because of observance of religious holidays shall be given an opportunity during that semester to make up missed work. The make-up will apply to the religious holiday absence only. It shall be the responsibility of the student to notify the instructor no later than the end of the first two weeks of classes, **September 22, 2015** of his or her intention to participate in religious holidays which do not fall on state holidays or periods of class recess. For additional information, please visit: <http://catalog.unlv.edu/content.php?catoid=6&navoid=531>.

Incomplete Grades - The grade of I – Incomplete – can be granted when a student has satisfactorily completed three-fourths of course work for that semester/session but for reason(s) beyond the student’s control, and acceptable to the instructor, cannot complete the last part of the course, and the instructor believes that the student can finish the course without repeating it. The incomplete work must be made up before the end of the following regular semester. If course requirements are not completed within the time indicated, a grade of F will be recorded and the GPA will be adjusted accordingly. Students who are fulfilling an Incomplete do not register for the course but make individual arrangements with the instructor who assigned the I grade. Please note – Students cannot enroll in other nursing courses if they have an incomplete (I) in a course that is designated as a prerequisite to that course. (Per School of Nursing Policy C-12).

Tutoring – The Academic Success Center (ASC) provides tutoring and academic assistance for all UNLV students taking UNLV courses. Students are encouraged to stop by the ASC to learn more about subjects offered, tutoring times and other academic resources. The ASC is located across from the Student Services Complex (SSC). Students may learn more about tutoring services by calling 702- 895-3177 or visiting the tutoring web site at: <http://academicsuccess.unlv.edu/tutoring/>.

UNLV Writing Center – One-on-one or small group assistance with writing is available free of charge to UNLV students at the Writing Center, located in CDC-3-301. Although walk-in consultations are sometimes available, students with appointments will receive priority assistance. Appointments may be made in person or by calling 702-895-3908. The student’s Rebel ID Card, a copy of the assignment (if possible), and two copies of any writing to be reviewed are requested for the consultation. More information can be found at: <http://writingcenter.unlv.edu/>

Rebelmail – By policy, faculty and staff should e-mail students’ Rebelmail accounts only. Rebelmail is UNLV’s official e-mail system for students. It is one of the primary ways students receive official university communication such as information about deadlines, major campus events, and announcements. All UNLV students receive a Rebelmail account after they have been admitted to the university. Students’ e-mail prefixes are listed on class rosters. The suffix is always @unlv.nevada.edu. Emailing within WebCampus is acceptable.

Library Resources –Students may consult with a librarian (www.library.unlv.edu/consultation) about research needs. For this class, the subject librarian is Xan Goodman. UNLV Libraries provides resources to support students’ access to information. Discovery, access, and use of information are vital skills for academic work and for successful post-college life. Access library resources and ask questions at www.library.unlv.edu/