



**Midwestern State University**

Robert D. & Carol Gunn College of Health Sciences & Human Services  
Revised August 2022

Course Number: RADS 4853                      3 credits                      Fall 2022  
Course Title: Essentials of Forensic Medical Imaging

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**Course Overview:**

This course presents the essentials of forensic medical imaging including evidence handling, autopsy, virtopsy, investigational radiography on living subjects, and anthropological radiography.

**Course Objectives:**

Upon completion of this course, students will be able to:

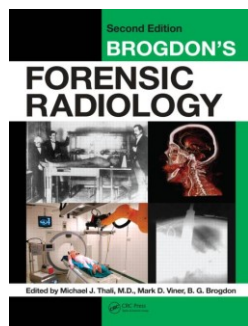
- Explain the history of forensic imaging
- Describe how to preserve evidence and the chain of custody
- Discuss imaging techniques for forensic radiography
- Discuss emerging trends in forensic imaging including virtopsy.

**Textbook:**

**Required:**

Thali, M. J., Viner, M. D., & Brogdon, B. G. (2010). *Brogdon's Forensic Radiology* (2<sup>nd</sup> Ed.). Boca Raton, FL: CRC Press. [ISBN 978-1-4200-7562-5]

Note: Either hardback or ebook is acceptable for this course.



This book can be special ordered from the MSU Bookstore for approximately \$215.00. However, an electronic version can be obtained from Amazon for around \$25 for a three-month rental or around \$50 to purchase.

**Required:**

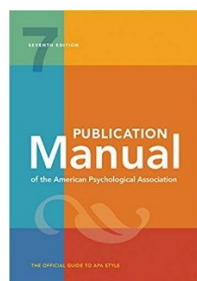
MedOne Radiology

This online resource is free to MSU students. Access MedOne Radiology through the Moffett Library online databases. Log in to the MSU portal and access the Library Resources. Under the [Research Databases](#) tab click on Health Sciences and scroll down to MedOne.

Med One Radiology is a comprehensive online reference for all medical imaging specialists. It provides extensive case libraries and diagnostic guidance for those in training, and essential references and procedural guidelines for the qualified specialist in clinical practice.

**Recommended:**

American Psychological Association. (2020). *Publication manual of the American Psychological Association* (7<sup>th</sup> Ed.) [ISBN 978-1433832161]



This book is approximately \$35 from the MSU Bookstore.

**Additional Resources:**

*It is recommended that students download Google Chrome (a free download through Google) or Mozilla Firefox and use one of those as the default browser for ALL D2L*

*courses. This appears to eliminate 99% of technical issues often encountered with Internet Explorer, Apple Safari, etc.*

### **Communication with the Instructor:**

Communication will be through the student's Midwestern State University email account. An email account is created for every MSU student. If you have not accessed this account yet, please do so by logging into the Portal and clicking the student email account icon located in the Portal.

You have the option to have any messages sent here to be forwarded to the email account of your choice.

The instructor will respond or at least acknowledge email messages from students within a maximum of five (5) business days when MSU is in session. Beyond standard university holidays and breaks, the instructor will notify students of any extended periods of time when email contact is not practical (professional meetings, etc.).

**When emailing the instructor, please include your full name, course and section number, and a thorough explanation in your message. This will help expedite your request or needs.**

Students should also periodically check the 'News' section within D2L for course updates and other important information.

### **Class Meeting Date and Time:**

Since this is an online course, there are no mandatory face-to-face sessions. However, the student should be vigilant in logging into D2L. Regular checks will ensure messages from the instructor are received in a timely manner. This course is on a schedule that will be strictly adhered to. See the Course Schedule at the end of this syllabus for specific information about activities and due dates. The instructor will be available to meet face-to-face with any interested students. This meeting is optional and must be confirmed by email ahead of time with the instructor.

### **Methodology/Teaching Strategies:**

This is an online course. All notes and additional reading material (other than the required textbook) will be delivered through D2L.

### **Evaluation Method:**

<b>Percentage Distribution</b>	<b>Value</b>
Module Quizzes	50%
Discussions	25%
Course Project	25%

**Grading Scale:**

Grade	Range
A	90-100
B	80-89
C	70-79
D	60-69
F	59 or below

**The last opportunity to drop this course with a grade of “W” is 4:00pm October 24, 2022.** Please refer to the Undergraduate Bulletin for details about receiving a grade of “Incomplete” in a course.

In an emergency or extenuating circumstance, a student may request a grade of “Incomplete” in a course before grades are submitted.

If the instructor grants the “Incomplete,” the student has until thirty (30) days after the beginning of the next long semester to complete the course requirements. If the student does not complete the course requirements within the deadline, the grade of “Incomplete” will automatically convert into a grade of “F.”

**Student Responsibilities:**

As a student enrolled in this course, you will be responsible for adhering to and meeting posted deadlines and due dates. All activities for this course are listed at the end of this syllabus.

Activities such as quizzes have expiration dates. Please take note that expiration dates for quizzes will differ from deadlines for assignments and activities.

Quizzes and assignments/activities are spaced in a manner that will allow you ample time to complete them. Assignments/activities will be accepted on or before the posted due date and deadline. **Late assignments will be accepted on a case by case basis.** If a student cannot complete a course activity by the indicated due date, the student must contact the course instructor immediately. Please note that late submissions may not be graded unless prior approval has been granted. If a student has emergency issues, then the student must contact the instructor as soon as possible (within a day or two).

**Students must use baccalaureate level writing skills including complete sentences, correct grammar, and proper punctuation. All assignments will be graded for accuracy, completeness, quality, spelling, grammar, and integrity.**

All assignments will be submitted in a dropbox within D2L. All assignments will be completed in Times New Roman or Arial, 12 point font.

See the course calendar for the specific due date.

### **Grading Cycle:**

All assignments are graded together as a group to maintain a higher level of consistency. Grading begins on the first business day after a due date, outside of university holidays and professional meetings, and is typically completed before the next due date. You may track your progress through the Gradebook in D2L.

If students have technical difficulties, they should use the 'Help' link within D2L, contact the MSU Information Systems Support Staff, and send an email to the professor explaining what happened **at the time of the incident**.

**All assignments must be written at the baccalaureate level and will be graded for accuracy, completeness, quality, spelling, grammar, and integrity. All assignments submitted will be considered complete and graded as such.**

All assignments, exams, etc. must be completed and submitted by the due date indicated on the course schedule at the end of this syllabus. If a student cannot complete a course activity by the indicated due date, the student must contact the course instructor *immediately*. Please note that late submissions may not be graded; students must contact the instructor for approval for late submissions. If a student has emergency issues, then the student must contact the instructor as soon as possible (within a day or two). Any activity not completed and submitted by the due date will be addressed on an individual basis.

### **D2L Module Quizzes (50%)**

Students should complete the reading assignments and be familiar with the chapter objectives before attempting the module quizzes. Quiz questions will be from information learned in the modules.

When a student has reviewed a module and is ready for the quiz, they will log into D2L and receive a customized timed module quiz consisting of randomized multiple choice questions. See the course schedule at the end of this syllabus for the due dates for quizzes.

It is important to know the module content before attempting the module quizzes since the quizzes are **timed**. Quiz scores will be available immediately after a student submits for grading. Quizzes must be completed by the due dates or a zero (0) will be recorded. Students who know they will miss a due date because of extenuating circumstances

should contact the instructor so their situations can be dealt with on an individual basis. Acceptance of an extenuating circumstance is at the discretion of the instructor.

If students have technical difficulties during a quiz, they should use the 'Help' link located on the top toolbar within D2L to contact the MSU Information Systems Support Staff and send an email to the course instructor immediately explaining what happened.

If a student finds a faulty quiz test item or believes a quiz question has been scored incorrectly, they should send an email to the course instructor that includes the following:

- Module quiz number (1-7)
- Question stem
- Rationale supporting why the student's answer is correct
- Include page numbers when referencing the textbook

For example, a student cannot send the message: "I think question number ten is wrong on quiz four" because each student gets a quiz of randomly generated test items. The instructor has to know the question stem to find the question in the database. After reviewing the situation, if the course instructor thinks a revision is justified, the students' quiz score will be revised to reflect the additional points and the test bank will be updated.

### **Discussions (25%)**

There are 4 discussion topics in this course. Each discussion requires an original post and at least two replies to two of your peers. Please be mindful and post early enough to allow your classmates ample time to respond to your post!

### **Course Project (25%)**

There are two choices available for the course project: A 3-4 page literature review in APA format, or a poster presentation (36"x48"). Posters do not have to be printed, only the printable PDF file needs to be submitted. For either project, the student must pick and have approved an appropriate topic in forensic imaging. In the appropriate discussion board, the student should make a post with the proposed title of the project, a sentence or two explaining the subject matter, and the format in which the project will be presented (paper or poster). An example of a post would be:

Title: "The Use of 3D Modeling in Forensic Investigation". This poster will discuss how CT/MRI DICOM files from forensic cases are used to create 3D models. These models may then be used by investigators or presented as evidence to a jury.

Title: “virtopsy as a Replacement for Medicolegal Autopsies”. This paper will discuss the current and future trends in virtopsy. Virtopsy is being seen as a viable replacement to many traditional autopsies, saving both time and money.

### **Paper Requirements**

A paper should include the following:

- Title page (separate page)
- Abstract (separate page)
- 3-4 page discussion including introduction, method section, discussion, and conclusion
- Reference list (separate page)

Each of the above items should be a separate page(s). A paper with all the required components will be 6 or 7 pages when submitted. The paper should be in APA format. If there is any question as to what “APA formatting” is, the APA manual (7<sup>th</sup> ed) which is a recommended text book should be consulted.

### **Poster Requirements**

A poster should include the following:

- Title
- Information in text boxes with the appropriate headings
- Minimum of 5 images with citations
- Reference list

The poster should be made using a PowerPoint template for a 36”x48” poster. The file should be saved as a PDF for uploading. All references and citations should be in APA format as outlined in the APA Manual (7<sup>th</sup> ed). NOTE: The professor will print a “proof” of your poster on 8.5 X 11 paper for grading. For details on easy formatting, please see the instructions on D2L.

### **Special Needs:**

In accordance with Section 504 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, Midwestern State University endeavors to make reasonable adjustments in its policies, practices, services, and facilities to ensure equal opportunity for qualified persons with disabilities to participate in all educational programs and activities.

The Office of Disability Support Services (DSS) provides information and assistance, arranges accommodations, and serves as a liaison for students, instructors, and staff. The DSS has assistance devices such as books on tape, recorders, and adaptive software, which can be loaned to qualified individuals. A student/employee who seeks accommodations on the basis of disability must register with the Office of Disability Support Services in the Clark Student Center Room 168 or call 940-397-4140 for more information. Documentation of disability from a competent professional is required.

Individuals with grievances related to discrimination or lack of accommodation on the basis of a disability are encouraged to resolve the problem directly with the area involved. If the matter remains unresolved, advice and/or assistance will be provided by the Office of Disability Services for resolution. The grievance procedure may be found in the Student Handbook and Activities Calendar.

The ADA Coordinator may be contacted at (940) 397.4140, or 3410 Taft Blvd., Clark Student Center Room 168.

### **Conduct/Honesty/Honor System:**

RADS 4853 adheres to the MSU 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/her work will be completed in full observance of the MSU Code of Student Conduct. A student should consult the Student Handbook for answers to any questions about the code.

Students are encouraged to take full advantage of many resources available including Internet sites, handouts, other textbooks & journals, faculty, and peers. This interactive collegial learning environment is conducive to life-long learning.

Specific components of RADS 4853 are designed to represent the efforts of each student individually and are NOT to be shared. These components include the written assignment submitted for a grade. Submitting someone else's work as your own or improperly cited work constitutes plagiarism. Please see the Midwestern State University Catalog for further discussion of plagiarism. Plagiarism will constitute in an F for the course and the student will be referred to administration for further action. When students submit their efforts for grading, they are attesting they abided by this rule.

***Quizzes and exams are not to be copied in any form or shared in any form. Students caught engaging in such activity will receive an F for the course and be referred to University administration for dismissal.***

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 citation in the text and on the reference list, the published or unpublished works of another person. Students may not submit papers and assignments that they have previously submitted for this or other courses. The use of materials generated by



agencies engaged in “selling” term papers is also plagiarism. Students are encouraged to review the tutorials and suggested websites for more information about plagiarism.

*By enrolling in this course, the student expressly grants MSU a limited right in all intellectual property created by the student for the purpose of this course. The limited right shall include but shall not be limited to the right to reproduce the students work product in order to verify originality and authenticity, and for educational purposes.*

### **Campus Carry:**

Effective August 1, 2016, the Campus Carry law (Senate Bill 11) allows those licensed individuals to carry a concealed handgun in buildings on public university campuses, except in locations the University establishes as prohibited. The new Constitutional Carry law does not change this process. Concealed carry still requires a License to Carry permit, and openly carrying handguns is not allowed on college campuses. For more information, visit [Campus Carry](#).

### **Active Shooter:**

The safety and security of our campus is the responsibility of everyone in our community. Each of us has an obligation to be prepared to appropriately respond to threats to our campus, such as an active aggressor. Please review the information provided by MSU Police Department regarding the options and strategies we can all use to stay safe during difficult situations. For more information, visit [Safety/Emergency Procedures](#). Students are encouraged to watch the video entitled "[Run, Hide, Fight.](#)"

### **Administrative Process:**

Unresolved issues related to this course should be first addressed between the student and the course instructor. If there is no resolution, students must follow this sequence:

1. Department Chair: Dr. Beth Vealé (940) 397.4611
2. College Dean: Dr. Jeff Killion (940) 397.4594
3. Dean of Students: Matthew Park (940) 397.7500

## Tentative Course Schedule

Date	Activity <i>All assignments are due by 11:59pm CST on the indicated due date</i>
August 22	Classes begin All quizzes and assignments open  Review the Course Syllabus
September 6	Module 1 Discussion & Quiz
September 20	Module 2 Quiz <b>Project topic and format posted in the discussion board</b>
September 27	Module 2 Discussion
October 4	Module 3 Quiz
October 18	Module 4 Quiz Module 3 Discussion
November 1	Module 5 Quiz
November 8	Module 4 Discussion
November 15	Module 6 Quiz
November 29	Module 7 Quiz Course Project Due