

Request for Undergraduate Course Addition

Prepare one paper copy with all signatures and forward to the University Curriculum Committee Chair. Additionally, immediately following attainment of the College Curriculum Chair signature, send one identical ELECTRONIC COPY sans signatures in PDF format with all supporting documentation converted to PDF format by email to the University Curriculum Committee chair for electronic distribution.

College: COHP Department/Division: Medical Imaging Alpha Designator / Number : MI 304 Graded: CR/NC:

Contact Person: Dr. Shelia Kyle, Vice President Phone: 304-526-1412
St. Mary's Center for Education

Dr. Rita Fisher 304-526-1259
Director – School of Medical Imaging

NEW COURSE DATA:

New Course Title: Radiographic Pathology

Alpha Designation/Number:

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Title Abbreviation:

R	A	D	I	O	G	R	A	P	H	I	C		P	A	T	H	O	L	O	G	Y		
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(Limit of 25 characters and spaces.)

Course Description (Limit of 30 words): Introduces student to concepts related to disease and etiological considerations with emphasis on radiographic appearance of disease and impact on exposure factor selection.

Co-requisite(s): MI 302, MI 303, MI 304, MI 305, MI 306 First Term to be offered: Fall 2009

Prerequisite(s): BSC 228, MI 204; Admission to the Medical Img Program Credit Hours: 3

Course(s) being deleted in place of this addition (must submit course deletion form): None

CHECKLIST/REQUIREMENTS:

1. After completing this two page form in its entirety, include a complete syllabus and route through the departments/committees below.
2. A complete syllabus can be from when this course was previously taught as a special topics course or by creating a new, intended syllabus to use with the course. The sample syllabus must at a minimum address the following areas:
 - a. COURSE OBJECTIVES
 - b. COURSE OUTLINE
 - c. SAMPLE TEXT(S) WITH AUTHOR(S) AND PUBLICATION DATE
 - d. INSTRUCTIONAL METHODS (Lecture, Lab, Internship, Practicum, etc...)
 - e. EVALUATION METHODS (Unit/Chapter, Midterm, Final, Projects, etc...)
3. If this course will replace a course that is required by another department, please send a memo to the affected department and include it with this packet, as well as, the response received from the affected department.
4. If this course will be similar in title or content to another department's courses, please send a memo to the affected department and include it with this packet, as well as, the response received from the affected department.
5. Send a copy of this completed form to the Marshall University Catalog Editor.

SIGNATURES: (If disapproved at any level, do not sign. Return to previous signer.)

Department Chair/Division Head _____	Date: _____
Registrar: _____	Date: _____
Librarian: _____	Date: _____
College Dean: _____	Date: _____
College Curriculum Chair _____	Date: _____
University Curriculum Committee Chair: _____	Date: _____
Faculty Senate Chair: _____	Date: _____
VP Academic Affairs/VP Health Services: _____	Date: _____

Request for Undergraduate Course Addition - Page 2
Additional Information Required for Undergraduate Course Addition

College: COHP

Department/Division: Medical Imaging

Alpha Designator/Number: MI 304

Provide complete information regarding the new course addition for each topic listed below. Before routing this form, a complete syllabus also must be attached addressing the items listed on the first page of this form.

1. Identify by name the faculty in your department/division who may teach this course.

Rita Fisher, PhD RT (R)(CT)(CV)(ARRT)

2. If your department/division requires additional faculty, equipment, or specialized materials, attach an estimation of money and time required to secure these items.

No additional funding required

3. If this course will be required by a department/division other than your own, identify by name.

N/A

4. If there are any agreements required to provide clinical experience, attach details and signed agreements.

No additional agreements will be needed for this class

5. If library resources are deemed inadequate, attach a plan to overcome this. The plan must include the cost as stated by the Dean of Libraries.

No additional Library Resources to be provided by Marshall University

6. EQUIPMENT/SUPPLIES NEEDED TO TEACH THIS COURSE (this does not refer to additional equipment/supplies that need to be purchased; simply what materials are needed in order to teach this course successfully.):

Computer, LCD Projector, Projector Screen, White Board, Markers, Handouts, CD Rom's

No additional equipment or supplies will need to be provided by Marshall University

7. ADDITIONAL GRADUATE REQUIREMENTS IF LISTED AS AN UNDERGRADUATE OR GRADUATE COURSE (please also submit to Graduate Council course addition for 5xx graduate component):

None

8. PROVIDE A COMPLETE BIBLIOGRAPHY INCLUDING ALL PUBLICATIONS RESEARCHED TO CREATE THIS COURSE AND WHAT PUBLICATIONS MAY BE BENEFICIAL TO STUDENTS TAKING THIS COURSE (separate page).

See attached sheet

BIBLIOGRAPHY:

- Drafke MW, Nakayama H. *Trauma and Mobile Radiography*. 2nd ed. Philadelphia, Pa: FA Davis; 2001.
ISBN 080360694X
- Eisenberg RL, Johnson NM. *Comprehensive Radiographic Pathology*. 4th ed. St. Louis, Mo: Mosby; 2007.
ISBN: 0323036244
- Eisenberg RL, Johnson NM., *Workbook for Comprehensive Radiographic Pathology*. 4th ed. St. Louis, Mo: Mosby; 2007.
ISBN: 0323042198
- Gyls BA, Masters RM. *Medical Terminology Simplified*. 2nd ed. Philadelphia, Pa: FA Davis Co; 2005.
ISBN 0803612540
- Halpern B. *Imaging in Musculoskeletal & Sports Medicine*. St. Louis, Mo: Blackwell Science; 1997.
ISBN 0865424187
- Kent TH, Hart MN. *Introduction to Human Disease*. 4th ed. Norwalk, Conn: Appleton & Lange; 1998.
ISBN 0838540708
- Linn-Watson T. *Radiographic Pathology*. Philadelphia, Pa: WB Saunders; 1996.
ISBN 0721641296
- Linn-Watson T. *Radiographic Pathology: Workbook*. St. Louis, Mo: WB Saunders Co; 1996.
ISBN 0721641695
- Long BW, Rafert JA. *Orthopaedic Radiology*. St. Louis, Mo: WB Saunders Co; 1995.
ISBN 0721666493
- Lufkin R. *Teaching Atlas of Head & Neck Imaging*. New York, NY: Thieme Medical Publishers; 2002.
ISBN 0865776911
- McCance KL, Huether SE. *Pathophysiology: The Biologic Basis for Disease in Adults and Children*. 5th ed. St. Louis, Mo: CV Mosby; 2005.
ISBN 0323035078
- Mace JD, Kowalczyk N. *Radiographic Pathology for Technologists*. 3rd ed. St. Louis, Mo: Mosby; 1997.
ISBN 0815145683
- Marieb EN. *Human Anatomy & Physiology*. 6th ed. New York, NY: Pearson Education; 2004
ISBN 0805354638
- Mulvihill ML, et al. *Human Disease: A Systemic Approach*. 6th ed. Norwalk, Conn: Appleton & Lange; 2005.
ISBN 0131527495
- Venes D. *Taber's Cyclopedic Medical Dictionary*. 20th ed. Philadelphia, Pa: FA Davis Co; 2005.
ISBN-10: 0803612079
ISBN-13: 978-0803612075
- Weill FS, Manco-Johnson ML. *Imaging of Abdominal and Pelvic Anatomy*. New York, NY: Churchill Livingstone; 1997.
ISBN 0443052387
- Wicke L. *Atlas of Radiologic Anatomy*. 7th ed. Teterboro, NJ: Icon Learning Systems; 2004
ISBN 1929007469
- Willis MC. *Medical Terminology: A Programmed Learning Approach to the Language of Health Care*. 2nd ed. Philadelphia, Pa: Lippincott Williams & Wilkins; 2007.
ISBN: 9780781792837

COURSE SYLLABUS OUTLINE

Course Title and Number: MI 304 Radiographic Pathology

Semester and Year: Fall 2009

*Course with Special Designation: none

Text Information: Eisenberg and Johnson. *Comprehensive Radiographic Pathology*. 4th ed. 2003. Mosby.

Eisenberg and Johnson. *Workbook to accompany Comprehensive Radiographic Pathology*.

Computer Requirements: access to the internet

Instructor: Name: Dr. Rita Fisher
Office: Room 212
Office Hours: As arranged
Phone/email: 526-1259, rfisher@st-marys.org

Course Description: Content is designed to introduce concepts related to disease and etiological considerations with emphasis on radiographic appearance of disease and impact on exposure factors. (Lecture).

Credits: 3

Prerequisites: BSC 227, BSC 228, MI 204

Co-requisites: MI 303

Desired Learner Outcomes/Objectives: When finished with this course you should be able to:

1. Define basic terms related to pathology.
2. Describe the basic manifestations of pathological conditions and their relevance to radiologic procedures.
3. Describe radiologic procedures used in the diagnosis of trauma.
4. Describe the various systemic classifications of disease in terms of etiology, types, common sites, complications and prognosis.
5. Describe the radiographic appearance of selected diseases.
6. Identify radiologic procedures and interventional techniques appropriate for diseases common to each body system.

Evaluation/Measurement/Assessment of Learner Outcomes:

1. 7 Exams: Exams will be administered to cover the content material found in the text, delivered in lecture and any additional materials. Exams will be multiple choice, true/false and short answer.
2. Class participation
3. Research paper. Each student will write a research paper on a pathologic condition and imaging diagnostic and/or therapeutic methodology. Papers will be submitted to the West Virginia State Society of Radiologic Technologists during the annual fall meeting. Papers will follow the format required by the WVSRT.
4. Each student will present a 10-15 minute oral presentation to the class on their paper topic. Students should do a professional presentation. Power point is available in the computer lab at SMMC or in the computer lab at Marshall. The oral presentation is intended to help development a radiographer's verbal and critical thinking skills
5. Comprehensive final exam. Students who have achieved an A (93.1%) on the exams only may be exempt from the final exam. Written assignment grades **will not** be considered in exemption from the final exam.

Your demonstrated daily preparation, participation, and punctuality can raise or lower your final grade.

Grading Policy

Lecture exams (7)	50%
Paper	20%
Oral Presentation	10%
Comprehensive final	20%

Grades will be determined by the following scale:

92.3-100	A
84.3-92.2	B
74.3-84.2	C
Below 74.3	F

Policy Statements:

- 1. Attendance:** Regular attendance is expected. Students who miss more than two classes will receive a one letter drop in the final grade. You cannot pass the course with more than four absences. You must be present at the beginning of the class and stay until the end of class in order to be counted present. *The School of Medical Imaging follows Marshall University inclement weather policy. Refer to the Student Handbook.*
- 2. Preparation, participation, punctuality.** All preparation material should be completed prior to its scheduled discussion in class. All class sessions will be conducted with the assumption that all appropriate readings and/or assignments have been completed. Doing the preparation work prior to class will allow you to identify specific topics with which you need the most help, and you can then raise the pertinent questions when the topic is scheduled for class time. Not all assigned information will be reviewed in class. Additionally, information that may not have been assigned may be reviewed in class. If you have a question about a particular subject, you have the responsibility of using class time to get your questions answered. This necessitates having attempted the work prior to class. Class time should be used to clarify issues; it is difficult to know what issues you need to have clarified if you have not prepared.
- 3. Academic integrity:** Please refer to the Student Handbook. Students may not copy or utilize prior exams as study material unless provided by the instructor for review. Students who obtain copies of old exams from current or former students will be sanctioned.
- 4. Make-up assignments: Late assignments will not be accepted.** Students who miss scheduled exams may make them up only in the event of a medical emergency or by prior arrangement with the instructor.
- 5. Missed classes:** If you are absent, it is your responsibility to find out from a classmate what notes, handouts, assignments, or other course material you missed and to make arrangements with me to receive handouts.
- 6. Office hours:** Instructors are available to meet individually by appointment.
- 7. Learning Disabled Students:** consideration toward learning disabled students will be in accordance to SMI Student Handbook policies. Please make certain the instructor is made aware of any special needs.
- 8. Computing policy at SMMC:**
 - Authorized users of SMMC or other clinical affiliates institutional networks are those individuals who have been granted a username and password. Unauthorized use of usernames or passwords is prohibited
 - Use of computer systems in the clinical setting is limited to authorized patient data entry. Unauthorized access or attempts to access privileged patient information is a HIPAA violation and may result in dismissal from the SMI.
 - Students are provided access to the Internet through computers located in the School of Nursing Library, the computer lab and the SMI office. **Internet access is limited to assigned research projects.** Students may not access personal e-mail accounts (such as Hotmail or Yahoo) from these computers. Non school related use of the internet is prohibited. Students may access the internet via computers located in the Mojo/vending area in the hospital.
 - Internet access at SMMC is monitored by Information Services. Any attempts to download material of an obscene nature may result in dismissal from the SMI.
 - Students have access to computers located in the computer lab next to the SMI classroom. Students may not store information of the hard drive of these computers.
 - Users must adhere to the ethical standards governing copyright, software licensing, and intellectual property.
 - Suspected violation of these guidelines constitutes unacceptable use of information resources, and may violate other institutional policies and/or state and federal law including HIPPA. Suspected or known violations should be reported to the appropriate supervisory authority. The SMI and/or law enforcement agencies will process violations.
 - Violations may result in revocation of computing resource privileges, academic dishonest proceedings, disciplinary action or legal action.
 - Violations are subject to the appeal or grievance process.
 - Students should refer to MCTC computer policy in the MU Student handbook

Proposed Course Schedule.

Dates and content are subject to change as the semester progresses. Changes will be announced in class as far in advance as possible.

Week	Topic	Reading Assignment/Exam
	Introduction to Pathology	Chapter 1
	Specialized Imaging Techniques	Chapter 2
	Exam One	
	Respiratory System	Chapter 3
	Exam Two	
	Skeletal System	Chapter 4
	Exam Three	
	Gastrointestinal System	Chapter 5
	Urinary System	Chapter 6
	Exam Four	
	Cardiovascular System	Chapter 7
	Nervous System	Chapter 8
	Exam Five	
	Hematopoietic System	Chapter 9
	Endocrine System	Chapter 10
	Exam Six	
	Reproductive System	Chapter 11
	Miscellaneous Diseases	Chapter 12
	Exam Seven	
	Review	
	Final Exam	