

Course Discipline Code & No: RAD 100 Title: Introduction to Diagnostic Imaging Effective Term Fall 2009
 Division Code: HAT Department Code: ALHD Org #: 15600
 Don't publish: College Catalog Time Schedule Web Page

Reason for Submission. Check all that apply.
 New course approval Reactivation of inactive course
 Three-year syllabus review/Assessment report Inactivation (Submit this page only.)
 Course change

Change information: Note all changes that are being made. Form applies only to changes noted.

<input type="checkbox"/> Consultation with all departments affected by this course is required.	<input type="checkbox"/> Total Contact Hours (total contact hours were: _____)
<input type="checkbox"/> Course discipline code & number (was _____)* *Must submit inactivation form for previous course.	<input type="checkbox"/> Distribution of contact hours (contact hours were: lecture: _____ lab _____ clinical _____ other _____)
<input type="checkbox"/> Course title (was _____)	<input type="checkbox"/> Pre-requisite, co-requisite, or enrollment restrictions
<input checked="" type="checkbox"/> Course description	<input type="checkbox"/> Change in Grading Method
<input type="checkbox"/> Course objectives (minor changes)	<input checked="" type="checkbox"/> Outcomes/Assessment
<input type="checkbox"/> Credit hours (credits were: _____)	<input checked="" type="checkbox"/> Objectives/Evaluation
	<input type="checkbox"/> Other _____

Rationale for course or course change. Attach course assessment report for existing courses that are being changed.

Approvals Department and divisional signatures indicate that all departments affected by the course have been consulted.

Department Review by Chairperson New resources needed All relevant departments consulted

Print: Connie Foster Faculty/Preparer Signature Connie Foster Date: 9/03/09
 Print: Connie Foster Department Chair Signature Connie Foster Date: 09/03/09

Division Review by Dean
 Request for conditional approval
 Recommendation Yes No [Signature] Dean's/Administrator's Signature Date 9/4/09

Curriculum Committee Review
 Recommendation Yes No Tabled [Signature] Curriculum Committee Chair's Signature Date 11/12/09

Vice President for Instruction Approval
[Signature] Vice President's Signature Date 4/18/09
 Approval Yes No Conditional

Do not write in shaded area.
 Entered in: Banner C&A Database Log File 9/14/09 Basic skills spreadsheet updated Contact fee

Please return completed form to the Office of Curriculum & Assessment.

***Complete ALL sections which apply to the course, even if changes are not being made.**

Course: RAD 100	Course title: Introduction to Diagnostic Imaging
-----------------	--

Credit hours: 2 If variable credit, give range: _____ to _____ credits	Contact hours per semester: <table style="width:100%"> <tr> <td></td> <td style="text-align:center"><u>Student</u></td> <td style="text-align:center"><u>Instructor</u></td> </tr> <tr> <td>Lecture:</td> <td style="text-align:center">30</td> <td style="text-align:center">30</td> </tr> <tr> <td>Lab:</td> <td style="text-align:center">_____</td> <td style="text-align:center">_____</td> </tr> <tr> <td>Clinical:</td> <td style="text-align:center">_____</td> <td style="text-align:center">_____</td> </tr> <tr> <td>Practicum:</td> <td style="text-align:center">_____</td> <td style="text-align:center">_____</td> </tr> <tr> <td>Other:</td> <td style="text-align:center">_____</td> <td style="text-align:center">_____</td> </tr> <tr> <td>Totals:</td> <td style="text-align:center">30</td> <td style="text-align:center">30</td> </tr> </table>		<u>Student</u>	<u>Instructor</u>	Lecture:	30	30	Lab:	_____	_____	Clinical:	_____	_____	Practicum:	_____	_____	Other:	_____	_____	Totals:	30	30	Are lectures, labs, or clinicals offered as separate sections? <input type="checkbox"/> Yes - lectures, labs, or clinicals are offered in separate sections <input type="checkbox"/> No - lectures, labs, or clinicals are offered in the same section	Grading options: <input type="checkbox"/> P/NP (limited to clinical & practical) <input type="checkbox"/> S/U (for courses numbered below 100) <input checked="" type="checkbox"/> Letter grades
	<u>Student</u>	<u>Instructor</u>																						
Lecture:	30	30																						
Lab:	_____	_____																						
Clinical:	_____	_____																						
Practicum:	_____	_____																						
Other:	_____	_____																						
Totals:	30	30																						

Prerequisites. Select one:

College-level Reading & Writing
 Reduced Reading/Writing Scores
 No Basic Skills Prerequisite

(Add information at Level I prerequisite)
 (College-level Reading and Writing is not required.)

In addition to Basic Skills in Reading/Writing:

Level I (enforced in Banner)

Course	Grade	Test	Min. Score	Concurrent Enrollment <small>(Can be taken together)</small>	Corequisites <small>(Must be enrolled in this class also during the same semester)</small>
<input type="checkbox"/> and <input type="checkbox"/> or _____	_____	_____	_____	<input type="checkbox"/>	_____
<input type="checkbox"/> and <input type="checkbox"/> or _____	_____	_____	_____	<input type="checkbox"/>	_____
<input type="checkbox"/> and <input type="checkbox"/> or _____	_____	_____	_____	<input type="checkbox"/>	_____

Level II (enforced by instructor on first day of class)

Course	Grade	Test	Min. Score
<input type="checkbox"/> and <input type="checkbox"/> or _____	_____	_____	_____
<input type="checkbox"/> and <input type="checkbox"/> or _____	_____	_____	_____

Enrollment restrictions (In addition to prerequisites, if applicable.)

and or Consent required
 and or Admission to program required
 and or Other (please specify):
 Program: _____

Please send syllabus for transfer evaluation to:
 Conditionally approved courses are not sent for evaluation.
 Insert course number and title you wish the course to transfer as.

<input type="checkbox"/> E.M.U. as _____	<input type="checkbox"/> _____ as _____
<input type="checkbox"/> U of M as _____	<input type="checkbox"/> _____ as _____
<input type="checkbox"/> _____ as _____	<input type="checkbox"/> _____ as _____

<p>Course RAD 100</p>	<p>Course title Introduction to Diagnostic Imaging</p>	
<p>Course description State the purpose and content of the course. Please limit to <u>500</u> characters.</p>	<p>This course is a prerequisite for admission to the radiography program. The purpose of this course is to provide an overview of diagnostic medical imaging modalities with emphasis on the role of the radiologic technologist in the healthcare delivery system. Topics include historical development of radiological sciences, professionalism, career development, organization of healthcare systems, introduction to radiographic equipment, procedures, radiation protection, and medicolegal issues.</p>	
<p>Course outcomes List skills and knowledge students will have after taking the course.</p> <p>Assessment method Indicate how student achievement in each outcome will be assessed to determine student achievement for purposes of course improvement.</p>	<p>Outcomes (applicable in all sections)</p>	<p>Assessment Methods for determining course effectiveness</p>
	<p>Recognize the historical events that lead to the development of diagnostic medical imaging.</p>	<p>Departmental unit and final exams</p>
	<p>Identify the different medical imaging modalities, their equipment, practice standards, and the principles of image production.</p>	<p>Departmental unit and final exams</p>
	<p>Identify the role of the radiologic technologist in the healthcare delivery system, their practice standards, educational requirements, professional organizations, and career outlook.</p>	<p>Departmental unit and final exams</p>

<p>Course Objectives Indicate the objectives that support the course outcomes given above.</p>	<p>Objectives (applicable in all sections)</p>	<p>Evaluation Methods for determining level of student performance of objectives</p>
<p>Course Evaluations Indicate how instructors will determine the degree to which each objective is met for each student.</p>	<p>Identify the historical pioneers and leaders in the development of the radiological sciences.</p>	<p>Given a set of homework questions, students will identify historical leaders in the field of diagnostic medical imaging.</p>
	<p>Compare and contrast the different types of diagnostic imaging equipment used today.</p>	<p>Given a set of homework questions, students will differentiate between the different types of diagnostic imaging equipment.</p>
	<p>Compare and contrast the different methods of diagnostic image production.</p>	<p>Given a set of homework questions, students will compare and contrast the different methods of image production.</p>
	<p>Identify the professional organizations for each diagnostic imaging modality.</p>	<p>Given a set of homework questions, student will identify professional organization for each imaging modality.</p>
	<p>Identify the radiologic technologist's responsibility in caring for a patient during a radiographic procedure.</p>	<p>Given a set of homework questions students will identify the radiologic technologist's role in caring for patients during a radiographic procedure.</p>
	<p>Explain the organization and operation of a diagnostic imaging department.</p>	<p>Given a set of homework questions, students will explain the organizational structure and operation of a diagnostic imaging department.</p>
	<p>Identify and explain the basic principles and practices of radiation protection for the patient, healthcare worker and others.</p>	<p>Given a set of homework questions, students will identify and explain the basic principles and practices of radiation protection for the patient, healthcare worker, and others.</p>
	<p>Identify the medicolegal issues pertaining to diagnostic medical imaging.</p>	<p>Given a set of homework questions, students will identify the medicolegal issues pertaining to diagnostic medical imaging.</p>
	<p>Identify the educational and professional requirements for the different diagnostic imaging modalities: radiography, computed tomography, interventional radiology, magnetic resonance imaging, diagnostic medical sonography, nuclear medicine, and radiation therapy.</p>	<p>Given a set of homework questions, students will identify the educational and professional requirements for the different imaging modalities: radiography, computed tomography, interventional radiology, magnetic resonance imaging, diagnostic medical sonography, nuclear medicine, and radiation therapy.</p>

MASTER SYLLABUS

List all new resources needed for course, including library materials. None

Student Materials:

<p>List examples of types</p> <ul style="list-style-type: none"> Texts Supplemental reading Supplies Uniforms Equipment Tools Software 	<p>Gurley, LaVerne Tolley, and Callaway, William J., Introduction to Radiologic Technology, 6th edition, Mosby</p>	<p>Estimated costs</p> <p>\$ 50.00</p>
--	---	---

Equipment/Facilities: Check all that apply. (All classrooms have overhead projectors and permanent screens.)

Check level only if the specified equipment is needed for all sections of a course.

<input type="checkbox"/> Level I classroom Permanent screen & overhead projector	<input type="checkbox"/> Off-Campus Sites <input checked="" type="checkbox"/> Testing Center <input type="checkbox"/> Computer workstations/lab <input type="checkbox"/> ITV <input type="checkbox"/> TV/VCR <input type="checkbox"/> Data projector/computer <input type="checkbox"/> Other _____
<input type="checkbox"/> Level II classroom Level I equipment plus TV/VCR	
<input checked="" type="checkbox"/> Level III classroom Level II equipment plus data projector, computer, faculty workstation	

Assessment plan:

Learning outcomes to be assessed (list from Page 3)	Assessment tool	When assessment will take place	Course section(s)/other population	Number students to be assessed
Explain the historical development of diagnostic medical imaging.	Departmental RAD unit and final exams	Fall term 2011	All students	~60
Identify the different medical imaging modalities, their equipment, practice standards, and the principles of image production.	Departmental RAD unit and final exams	Fall term 2011	All students	~60
Identify the role of the radiologic technologist in the healthcare delivery system, their practice standards, educational requirements, professional organizations, and career outlook.	Departmental RAD unit and final exams	Fall term 2011	All students	~60

MASTER SYLLABUS

Scoring and analysis of assessment:

1. Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally developed rubric, external evaluation, other). Attach the rubric.

Itemized analysis of departmental unit and final exam questions. Exam questions with less than 70% correct will be reviewed.

2. Indicate the standard of success to be used for this assessment. Students will score 70% or above on exam questions.

3. Indicate who will score and analyze the data. A Radiography Program faculty member.

4. Explain the process for using assessment data to improve the course.

The radiography program faculty will review the results of the assessment and make changes to the unit and final exams.