Course Number: RADS 5204 4 Credits Spring 2010

Course Title: Curriculum Development in Radiologic Science

Faculty:

Donna Lee Wright, EdD, RT(R)
Bridwell Hall, Room 201F
Tel: 940-397-4615 or Toll Free 866-575-4305
Cell: 940-781-8477
Fax: 940-397-4845
EM: donna.wright@mwsu.edu

Jeff Killion, PhD, RT(R)(QM)
Bridwell Hall, Room 201D
Tel: 940-397-4679 or Toll Free 866-575-4305
Fax: 940-397-4845
EM: jeff.killion@mwsu.edu

Course Overview:
This course provides an in-depth study of radiologic sciences curriculum development, implementation, and evaluation. Institutional and professional requirements and constraints will be examined for their effect on the curriculum. Teaching methods for courses will be discussed for various curriculum structures and levels. Various curriculum design models as well as decision-making strategies will be included.

Course Objectives: Upon completion of this course, a student will be able to:

- Evaluate the use of a curriculum model.
- Apply the model for development of a radiologic sciences curriculum.
- Describe the planning process for development or revision of a radiologic sciences curriculum.
- Determine radiologic sciences curriculum content.
- Formulate decision-making strategies that influence curriculum development.
- Analyze goals and objectives for curricular relevance and appropriateness.
- Analyze various techniques for selecting or developing curriculum materials.
- Develop a course of study for radiologic sciences.
- Evaluate the components of an assessment plan.
- Describe methods to evaluate learning styles.
• Identify strategies to develop critical thinking skills.
• Evaluate various assessment strategies.
• Describe a competency-based clinical education system.

Textbook:


*BE SURE TO GET THE VERSION PRINTED IN OCTOBER 2009*

Additional course resources will be provided by the instructors.

Suggested Readings:


See list of “Suggested Readings” listed under “Study Tools” on the RADS 5204 website.

Scope of the Course:

See the “Scope of the Course” under “Course Content and Related Materials” on the RADS 5204 website.

Teaching Strategies:

Lecture/discussion, computer exercises, group activities, independent reading assignments, group discussion, written assignments, and student presentations.

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 Services (ODS) provides information and assistance, arranges accommodations, and serves as a liaison for students, instructors, and staff. The ODS has assistive 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 Services in the Counseling Center, Clark Student Center Room 108. 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 Director of the Counseling Center serves as the ADA Coordinator and may be contacted at (940)397-4618, TDD (940)397-4515, or 3410 Taft Blvd., Clark Student Center Room 108.

**Attendance:**
Without exception, students MUST attend and participate in both graduate seminar weekends to receive credit for this course.

**Evaluation:**

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<th>Component</th>
<th>Percentage</th>
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<tr>
<td>Electronic Discussion</td>
<td>25%</td>
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<tr>
<td>Presentations</td>
<td>35%</td>
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<tr>
<td>Final Curriculum Project</td>
<td>30%</td>
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<tr>
<td>Group Activities &amp; Class Participation</td>
<td>10%</td>
</tr>
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**Grade Scale:**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>100 - 90</td>
</tr>
<tr>
<td>B</td>
<td>89 - 80</td>
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<tr>
<td>C</td>
<td>79 - 70</td>
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<tr>
<td>D</td>
<td>69 - 60</td>
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<tr>
<td>F</td>
<td>69 and below</td>
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The last opportunity to drop this course with a grade of “W” is 4:00pm March 22, 2010. Refer to the Graduate Catalog 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 ninety (90) 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.”

**Honor System:**

RADS 5204 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 or 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.

Many components of RADS 5204 are designed to be highly interactive with students helping each other learn. Students are encouraged to take full advantage of many resources available including Internet sites, handouts and module notebooks, other textbooks and journals, faculty, and peers. This interactive collegial learning environment is conducive for life-long learning.

When students submit their efforts for grading, they are attesting that they have abided by this rule.

**PLEASE NOTE**
*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 student’s work product in order to verify originality and authenticity, and for educational purposes.

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:

   Department Chair – Dr. Donna Lee Wright (940-397-4615)
   College Dean – Dr. Susan Sportsman (940-397-4594)
   Dean of Students – Dail Neely (940-397-6273)

CLASS ACTIVITIES AND ASSIGNMENTS

Assignments will be submitted electronically as an email attachment using the following guidelines:

IBM compatible format (not MAC)
Word 97 or newer version – faculty may not be able to use Word 2007 documents
Arial or other typical legible font (10 or 12 point for bulk of text)
Standard 1” – 1.25” margins on all sides
Standard MSU Title Page

Electronic Discussion - 25%
Due: Throughout the Semester
Each student must participate fully in class and online discussions posted throughout the semester. Participation requires that students read assignments, selected suggested readings, and outside resources such as relevant articles in professional literature to incorporate their main points into discussions. The faculty will post group discussion questions on the RADS 5204 website at various points throughout the semester. Students should check the “Discussion” section under “Communication Tools” at least once a week to follow discussions. While each student does not have to make comments on each topic, at minimum each student must make comments on at least 50% of the topics presented for discussion. Open discussion is encouraged.

The faculty will evaluate the quality, relevancy, and consistency of each student’s class and online participation based on the following criteria:

- Evidence of having read assignments and made other preparations by familiarity with the issues and topics scheduled for discussion.
- Evidence of critical thinking beyond the textbook assignments by contributions of relevant observations and applications from personal or professional experiences.
- Overall quality and quantity of verbal and nonverbal participation in discussions and activities.
Evidence of leadership skills and awareness of group dynamics through supportive behavior towards others such as encouraging discussion, healthy professional debate, and clarification of issues.

(To make this discussion format work smoothly, students should become familiar with techniques to follow existing electronic discussion threads and to open new discussion threads using the WebCT Discussion Tool.)

**Presentation – 35%**
Students will present information on assigned topics during the final class session. Students will construct supplemental materials such as presentation handouts including a reference list. Presentations may (but are not required to) include PowerPoint presentations. They should include participatory exercises. Each presentation will last about 25-35 minutes. The following points will be included in the presentation evaluation:

- Relevance, Thoroughness, and Accuracy of the Topic Coverage
- Correlation to Established Models or Published Curriculum Development Information
- Presentation Preparation & Time Management
- Clarity, Ability to Hold Audience Attention and Make the Point(s)
- Respect for Others
- Ability to Communicate Professionally

**Final Curriculum Project – 30%**
Each student will develop and submit a curriculum plan and course of instruction that focuses on a discipline in the Radiologic Sciences such as Diagnostic Radiography, Nuclear Medicine, Ultrasound, Radiation Therapy, Magnetic Resonance Imaging, Computed Tomography, etc. Students may focus on revision of a course / curriculum currently in place or develop a new curriculum. Special constraints or needs should be addressed such as geographic area, special student needs, educational prerequisites, etc. See the “Final Project Guidelines” under the “Course Content and Related Materials” on the RADS 5204 website.

**Group Activities & Class Participation – 10%**
Each student is expected to prepare and to participate in class discussions and activities on each topic. The instructors will evaluate the quality, relevancy, and consistency of each student's participation according to the following factors:

- Verbal and nonverbal participation
- Awareness of group dynamics and supportive behavior towards others encouraging discussion and clarifying issues
Evidence of familiarity with the issues involved in each topic scheduled for discussion

Contribution of relevant observations from personal, professional, and/or academic experiences

2010 Tentative Class Schedule

<table>
<thead>
<tr>
<th>Event</th>
<th>Due</th>
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<tbody>
<tr>
<td>First Class Participation</td>
<td>January 30-31</td>
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<tr>
<td>Electronic Discussion Question #1 Posted (3 weeks)</td>
<td>February 15</td>
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<tr>
<td>Electronic Discussion Question #2 Posted (5 weeks)</td>
<td>March 1</td>
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<tr>
<td>Electronic Discussion Question #3 Posted (8 weeks)</td>
<td>March 22</td>
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<tr>
<td>Curriculum Development Project Due (10 weeks)</td>
<td>April 5</td>
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<tr>
<td>Electronic Discussion Question #4 Posted (11 weeks)</td>
<td>April 12</td>
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<tr>
<td>Second Class Participation &amp; Presentations (13 weeks)</td>
<td>May 1-2</td>
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