**Course Number:** RADS 5013      3 Credits

**Course Title:** Contemporary Trends in Radiologic Sciences        Spring 2011

**Prerequisites:** Admission to the MSRS Program

**Faculty:**

- Dr. Jeff Killion, Associate Professor  
  201D Bridwell Hall 
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- Dr. Donna Wright, Professor  
  201F Bridwell Hall 
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Radiologic Sciences Department Toll Free 866-575-4305, Fax: 940-397-4845

**Course Overview:** This course explores current professional issues in Radiologic Sciences and the health care delivery system. Students will explore, analyze, and evaluate advances that impact all disciplines of Radiologic Science. Content includes such topics as healthcare reform, professional practice issues, educational standards, technological advances, and writing with APA format.

**Course Objectives:** At the completion of the course, a student will be able to:

1. Examine the various forces that impact professional practice and healthcare.
2. Analyze the effects of current trends on professional practice.
3. Research articles related to current trends in Radiologic Sciences.
4. Synthesize research findings related to professional practice and healthcare issues.
5. Evaluate the relevancy of research data to current professional practice.
6. Demonstrate the application of APA style rules.
Textbooks:


Teaching Strategies:
Lecture/discussion, independent reading assignments, online exercises, group discussion, team activities, written assignments, research paper and student presentations.

Evaluation:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Class Participation</td>
<td>10%</td>
</tr>
<tr>
<td>Online Exercises</td>
<td>30%</td>
</tr>
<tr>
<td>Outline with References</td>
<td>10%</td>
</tr>
<tr>
<td>Paper</td>
<td>30%</td>
</tr>
<tr>
<td>Presentation</td>
<td>20%</td>
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</tbody>
</table>

Grade Scale
A = 90 – 100
B = 80 – 89
C = 70 – 79
D = 60 – 69
F = 58 and below

Deadlines for submission of assignments are provided in this syllabus. Failure to comply with the established deadlines may result in a grade reduction.

The last opportunity to drop this course with a grade of "W" is 4:00 pm March 21, 2011.

Incompletes:
Incomplete grades are given only at the instructor's discretion and MUST be requested by the student. If the instructor grants the "Incomplete," the student has until ninety (90) days after the beginning of the next regular 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." Please note that incompletes are given only in an emergency or when there are extenuating circumstances. Refer to the Graduate Bulletin for additional details about receiving a grade of "incomplete" in a course.

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:

- Graduate Coordinator – Dr. Jeff Killion (940-397-4679)
- 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)
**Attendance:** Without exception, students MUST attend and participate in both graduate seminar weekends to receive credit for this course.

**Honor System:** RADS 5013 adheres to the MSU Code of Student 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 MSU Student Handbook for answers to any questions about the code.

Some components of RADS 5013 are designed to be highly interactive with students helping each other learn, however, all written assignments are designed to represent the efforts of each student individually and not to be shared. When students submit their efforts for grading they are attesting that they have abided by this rule.

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

**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, the Office of Disability Services will provide advice and/or assistance. 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.

**CLASS ACTIVITIES AND ASSIGNMENTS**

**Class Participation (10%)**
Timeliness of attending class and submitting assignments that are required in this course affects the class participation grade. Each student should be prepared to participate fully in class discussions and activities. The faculty will evaluate the quality, relevancy, and consistency of each student’s class participation based on the following criteria:

- Quality and quantity of both verbal and nonverbal participation.
- Cognizance of group process and supportive behavior toward others.
- Demonstration of familiarity with the reading assignments
- Timeliness in attending class and submitting assignments
Online Exercises (30%)
Students will complete these online exercises after they attend the on-campus classes. The exercises are located under the Assessments link on the course homepage. There are useful modules to help with these exercises. Students should be sure to review the modules under the Study Tools link on the course homepage, the APA Manual, and any other grammar textbooks and resources BEFORE they attempt the exercises.

These exercises are not timed, so students can open them and work on them up until the due dates. Students may open and close the quiz multiple times to add answers. As long as students do not submit the quiz, they can continue to work on the quiz.

Students must submit the exercise for it to close and be graded. Once the exercise is submitted for grading the student cannot re-open the exercise and change answers. The first submission will count as the grade. Please note that after students submit their exercises, they may not see the answers or any feedback on the exercises until all the students in the class have submitted their exercises because correct answers are included in the feedback.

Dr. Wright will coordinate these online exercises. If you have any questions about the exercises, please contact her:

Grammar Review Exercises (Sentence Structure One and Sentence Structure Two) – students will complete these mandatory online exercises on Blackboard as a practice and they will get the correct answers as feedback. These exercises do not count as part of the course grade, but students must complete them.

APA Manual Exercise – students will complete these mandatory online exercises on Blackboard for a GRADE

PILOT Website - students will complete these five (5) mandatory online exercises on Blackboard for a GRADE

Document Structure Exercise – students will complete these mandatory online exercises on Blackboard for a GRADE

Effective Writing Exercise - students will complete these mandatory online exercises on Blackboard for a GRADE. There is supplemental material under the Study Tools link on the course website. This exercise requires students to interview someone who has published an article, so students should review this exercise before the last minute and allow plenty of time.

See the chart at the end of the syllabus for exercise due dates.

Paper Topic: Students will investigate and report on emerging trends in medical imaging and radiation sciences using graduate level strategies. The topics may be related to a new procedure or equipment that the student is very familiar with or to something about which the student wants to learn more. Students must get their topics approved by Dr. Killion for their seminar presentation no later than the date on the chart at the end of the syllabus.
**Outline (10%)**

After extensive review of the resources, students will create a topic outline and submit it Dr. Killion by the due date on chart at the end of the syllabus. The outline should include in-text style citations of the sources of information as part of the outline. While the final paper may deviate from the outline somewhat, the final paper should reflect the organization of this outline so students must be very familiar with their resources to create an accurate and realistic outline.

Example:

<table>
<thead>
<tr>
<th>I. Legal Issues</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Corporate Perspective (Edwards, 2005; Jones &amp; Smith, 2009)</td>
</tr>
<tr>
<td>B. Departmental Perspective (Jones &amp; Smith, 2009; Parker, 2010; Thompson et al., 2007)</td>
</tr>
<tr>
<td>C. Employee Perspective (Adams, 2004; Edwards, 2005)</td>
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</table>

<table>
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<tr>
<th>II. Financial Implications</th>
</tr>
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<tbody>
<tr>
<td>A. Cost vs. Benefit (Peterson, 2008; Peterson, 2009; Sampson &amp; Gilbert, 2005)</td>
</tr>
</tbody>
</table>

**Trends Paper (30%)**

This paper should reflect graduate level effort. It should demonstrate the student's ability to gather and discriminate pertinent resources, the ability to SYNTHESIZE information from a variety of sources, the ability to apply new information to a topic, and the ability to correctly use the APA Reference Style.

The body of the paper (excluding components such as the cover page, abstract, reference list, appendices, etc.) should be 5 pages in length – NO MORE THAN 5 PAGES.

The paper must include a reference list in correct APA format with 5-7 resources from reliable and scholarly sources such as peer-reviewed journal articles and government reports. Sources should be published within the past five (5) years. Because this course deals with CURRENT TRENDS, 1 – 2 substantive news magazines and other non-scholarly sources are allowed. In future courses students MUST use only scholarly sources.

Final papers are due by the dates on the chart at the end of the syllabus, and should be submitted electronically as email attachments using the following guidelines:

- IBM compatible format (not MAC)
- Word 97 or newer version
- Times New Roman or other typical legible 10 or 12 point font such as Arial (not Courier)
- 1” margins on all sides
- Double-spaced

Standard Cover Page (see BlackBoard course homepage for link)
Abstract
Body of Paper (5 pages)
References List

**Seminar Presentation (20%)**

Students will formally present their topics on the second class weekend (April 30 & May 1). Each presentation will be limited to fifteen (15) minutes and not more than twenty (20) minutes in length. **Presentations need to include an interactive activity.** Examples of interactive activities include: discussion, questions & answers, or game. The presentation will be evaluated by the faculty and students using the evaluation form posted on Blackboard. Students should send their Power Point
presentations to Dr. Killion ahead of time and **bring any printed handouts for classmates.** *(Students cannot make copies after they get to the Radiologic Sciences Department.)*

In their Power Point presentations, students should reference specific material appropriately. For example, if they are using statistical data or a chart from a source on one of their slides, the source should be referenced at the bottom of the slide.

There should also be a reference list in APA format at the end of the presentation. Students should be sure that their handouts for the rest of the class also include the reference list (as a legible Word document) in case someone wants to follow-up on something presented. Students should make corrections to their reference lists and may alter their reference lists after getting feedback from the instructor.

### Spring 2011 Tentative Schedule

<table>
<thead>
<tr>
<th>Class Participation</th>
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<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Grammar Review Exercise</strong></td>
<td>2</td>
<td></td>
<td>Jan</td>
</tr>
<tr>
<td><strong>PILOT Website</strong></td>
<td>3</td>
<td>Wright</td>
<td>Feb</td>
</tr>
<tr>
<td><strong>Paper Topic &amp; Outline Approval</strong></td>
<td>4</td>
<td>Killion</td>
<td>Feb</td>
</tr>
<tr>
<td><strong>APA Manual Exercise</strong></td>
<td>5</td>
<td>Wright</td>
<td>Feb</td>
</tr>
<tr>
<td><strong>Document Structure Exercise</strong></td>
<td>8</td>
<td>Wright</td>
<td>Mar</td>
</tr>
<tr>
<td><strong>Paper</strong></td>
<td>9</td>
<td>Killion</td>
<td>Mar</td>
</tr>
<tr>
<td><strong>Effective Writing Exercise</strong></td>
<td>10</td>
<td>Wright</td>
<td>Apr</td>
</tr>
<tr>
<td><strong>Presentation &amp; Class Participation</strong></td>
<td>13</td>
<td></td>
<td>Apr</td>
</tr>
</tbody>
</table>

*(Spring Break)*

*(Mar 14 - 18)*

(Apr 30 – May 1)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30</td>
<td>Course Overview &amp; Settling In</td>
</tr>
<tr>
<td>9:00</td>
<td>Overview of Trends (jk)</td>
</tr>
<tr>
<td>10:00</td>
<td>Management Trends (jk)</td>
</tr>
<tr>
<td>11:30</td>
<td>LUNCH</td>
</tr>
<tr>
<td>1:00</td>
<td>Education Trends (dlw)</td>
</tr>
<tr>
<td>2:00</td>
<td>Clinical Practice Trends (jk)</td>
</tr>
<tr>
<td>3:00</td>
<td>Graduate Level Writing Skills (dlw)</td>
</tr>
<tr>
<td>5:30</td>
<td>Review of Assignments</td>
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<tr>
<td></td>
<td>First Week Wrap-Up</td>
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</tbody>
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