Course Number: RADS 4913 X25 3 Credits  Spring 2012
Course Title: Applied Research
Faculty:

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Note from your instructors: As team-teachers for this course, we are both happy to help any student who asks. We each have students we are “primarily” responsible for guiding through this process. Mrs. Phifer will work with Edwards, Gutierrez, Parsons, Sparks, and Taylor. I will work with the remaining ten students. We look forward to seeing your capstone BSRS papers emerge as a result of these assignments! dlw

Prerequisites: RADS 3503 Research (must be completed BEFORE this course can be taken)

Course Overview: This is a capstone course involving directed research by reviewing previously published articles, culminating in a substantive paper related to Radiologic Sciences. The student must continue with the topic/research question presented during RADS 3503 with the approval of the RADS 4913 instructor.

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

- Apply appropriate research methods.
- Formulate an appropriate research question.
- Compose a publication quality substantive research paper that reviews previously published articles.
- Format this research paper which is a literature review in appropriate APA style (no original research is allowed).
Textbook:

Note: Be sure to get the correct version of the Manual. Check the copyright page to be sure it says “2nd printing, October 2009.”

Teaching Strategies:
Independent research and directed student paper.

Course Communication:
Contact information for the instructor is listed at the beginning of this syllabus. Email is the preferred mode of communication. Communication from the instructor to the student will be through the student’s Midwestern state University e-mail account. If students have not established an account, students should do so as soon as possible by going to: http://infosys.mwsu.edu/email.asp

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.). If the instructor has not responded to an email within 5 days, the student should either email or call the instructor. Students will also find information regarding deadlines and other important course related material in the Course Calendar located on the home page. Open the calendar and click on the date to open dialogue boxes.

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 further 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 director of the Counseling Center services as the ADA Coordinator may be contacted at (940) 397-4618, TDD (940) 397-4515, or 3410 Taft Blvd., Clark Student Center Room 108.

Academic Conduct:
Academic dishonesty (cheating, plagiarism, etc.) will not be tolerated in this class and may result in suspension or dismissal from this course and from the program. Cases will also be referred to the Dean of Students for possible dismissal from the university.

RADS 4913 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.

**Student Honor Creed:**
"As an MSU Student, I pledge not to lie, cheat, steal, or help anyone else to do so."

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 recognition, the published or unpublished works of another person. The use of materials generated by agencies engaged in "selling" term papers is also plagiarism.

**By enrolling in this course, the student expressly grants MSU a "limited right" in all intellectual property created by the student for the purposes 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. (What this paragraph is saying is that we are going to enter your paper into a software program that checks for plagiarism).**

Research, by nature, is highly interactive and collaborative with researchers 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 and productive research. The faculty encourages you to participate in the plagiarism tutorial which can be found on the homepage of this course.

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

**Attendance:**
Because this is an online course, there are no mandatory class sessions. Students should communicate with the instructor on a regular basis. There will be a voluntary help session held at MSU during the semester. At this time, the tentative meeting is March 22, 7:00-8:00 p.m., Bridwell Hall, room 204.

**Course Format:**
This course is divided into six (6) assignments and all assignments must adhere to the following requirements:

- IBM compatible format (not MAC)
- Word 97 or newer version (not Microsoft Works or WordPerfect)
- Times New Roman, 12 point font ONLY
- 1" margins on all sides
- Double-spaced

The assignments should be written using standard technical writing skills. This includes appropriate spelling, grammar, sentence structure, transitions, text flow, currency of knowledge, and scope of research.
ASSIGNMENTS

Assignment 1 – Research Question and Outline (3%)

The student must continue with the topic/research question presented during RADS 3503 and the topic must be approved by the instructor.

The outline should be based on published literature. Students will not develop their own surveys or conduct experiments to write this paper.

Students must complete the Research Question Approval Form, include a detailed outline of the paper, and include the corrected reference list created in RADS 3503. The assignment must be submitted to the Assignment I Drop box in Blackboard by the due date. References older than 5 years will generally not be accepted, but depending on the topic, source, etc., this will be at the discretion of the instructor.

All parts of this assignment MUST be submitted as ONE single document through the assignment drop box.

Assignment 2 – Title Page (2%)

Title page – pages 23 and 24 of the 6th edition of the APA Manual describes the components of the title page. Use the sample title page available under Course Materials on the course homepage because it includes additional information not included on the APA version. It helps distinguish assignments submitted in different classes.

Assignment 3 – Reference List (25%)

Refer to Chapters 6 and 7 in the APA Manual for an explanation on how to construct a reference list. Also, refer back to RADS 3503; you should have your graded reference list from that class. A minimum of eight (8) scholarly references is required.

NOTE ON REFERENCES: References should be from a variety of sources with the majority of references being from peer review journals or other scholarly works. Peer review journals use an editorial review board that evaluates the article for accuracy. Publications or magazines like RT Image, Advance, Decisions in Imaging Economics, and Applied Radiology are not peer-reviewed. Journals such as Radiologic Technology, Radiologic Science & Education, and Radiology Management are peer-reviewed. You should be able to look at the inside cover of a journal or on a web site to see if the journal has a review board. Most likely if you cannot find anything about a review board then the journal is not peer reviewed. The journal homepage should also indicate if the journal is peer-reviewed.

Assignment 4 – Body (35%)

The body of this paper is to include the following sections: introduction, methods, discussion, conclusion, and suggestions for future research. All sections except the Introduction should have a header – see APA Manual page 62 Section 3.03. This part of the paper must be no less than 5 pages and no more than 7 full length pages (Times New Roman, 12 pt. font). An expanded explanation of each component follows. You MUST include your complete revised reference list with this assignment as part of the document, not separately.
**Introduction** (includes background, purpose, research question, hypothesis) - pp. 27, 26 and 63 (*APA Manual*). This is where you develop the reason for the problem. Note: The word Introduction is not used as a header. The first section of the paper is assumed to be the Introduction section.

**Methods** (how references were found and what resources were used). The *APA Manual* describes methodology for original research. Because no original research is allowed in this course, use the methods section to describe how information was obtained.

Example: Searches were conducted using the following key words: knee injuries, radiology, radiography, infection control, (etc. to include all the appropriate search terms). Academic First Search, ERIC, EbscoHost were the primary databases used and were accessed through the Midwestern State University Library.

**Discussion** - pp. 35-36 (*APA Manual*). Compare the literature with the approved research question. This is where all the literature is pulled together so that the reader doesn't have to read each separate source. The writer's job for this section is to enlighten the reader by synthesizing the literature and reporting on it. For example one can formulate thoughts based on the literature, but a personal opinion is not appropriate in a research literature review. The writer is reporting on what was found; therefore, it must be supported with reference citations. Do not use personal pronouns such as “I found this…” or “we see this …”

For example if this were written:

Firms must take the initiative in retaining gifted and competent employees to effectively deal with this expected predicament. Proactive exploring is the catalyst for discovering various methods that could improve the retention rate of radiologic technologists and provide direction for organizations looking to implement and maintain a successful employee retention program.

While this may be true, it must be backed by research so here is how it might have been rewritten:

During this literature review, a common theme was evident among many of the authors (Ackerman, 2000; Bated, 2003; Devlin, 2000; Myers, 2006; & Zuckerman, 2007) that organizations must take the initiative in retaining gifted and competent employees. It appears that proactive exploring is the catalyst for discovering various methods that could improve the retention rate of radiologic technologists and provide direction for organizations looking to implement and maintain a successful employee retention program. For example, Veale’ (2008) said, “Passive attitudes towards employee retention are no longer effective. Healthcare organizations are bleeding to death by ignoring the loss of talent” (p. 45).

It seems then that the answer to the question of how to keep talent is to contemplate, renovate, innovate, and create new best practices to achieve institutional goals and thereby add to the existing body of knowledge on radiographer retention. Watts (2005) and Johnston (2007) support these notions by strongly encouraging healthcare organizations to work with employees instead of against them and to actively engage employees in the development of best practices for retention.

**Conclusion** – See the sample paper under Course Materials on the course home page. This is where you remind readers of the purpose, what was discovered, and if the findings were in line with the research question. Remember, this section should be no longer than 1 page.

**Suggestions for future research** - Explain where the literature was lacking and possible future research studies.

**References** – This is where you will place the reference list you corrected from your instructor’s comments.
Appendices (if needed) - Place any graphics, tables, etc. after the references.

All parts of this assignment must be submitted as ONE single document through the assignment drop box.

Assignment 5 – Abstract (5%)

See page 25, 26 and 229 in the APA Manual. The abstract should be no more than 120 words. Explain what the focus of the paper is and a little bit about the literature. Sell your paper here. Write something that is going to make people want to read this. The abstract is essentially a snapshot of the entire paper; it is what hooks people and convinces them to continue reading. Write the abstract after you complete the paper.

Assignment 6 – Final Paper (30%)

This research paper is to be a substantial manuscript (5-7 full length pages for the body). The length of the body of the paper is in addition to the title page, abstract, appendices, and reference list. The paper MUST reflect baccalaureate level effort and MUST incorporate the suggestions for revision provided by the instructor for assignments #1 - #5. It should demonstrate the student's ability to gather and discriminate pertinent resources, synthesize information from a variety of sources, apply new information to a topic, and correctly use the APA Reference Style.

All parts of this assignment must be submitted as ONE single document through the assignment drop box.

Regarding the assignment drop box: be sure you have the proper Java script running. There is a browser tune-up available on your course list page. If for some reason you cannot upload assignments, please check with the help desk AFTER you have updated your settings. You are prompted to do this when you open Blackboard. Please do not ignore it. Late submissions are not excused for this, so don’t wait until the last minute to submit.

Grading/ Evaluation:

Students are required to submit all assignments in the appropriate assignment drop box in Blackboard (WebCT). Do not email or fax assignments unless told specifically to do so by your instructor. Do not wait until the last minute to submit in case you have technical difficulties. If you have difficulties submitting any assignments, contact your instructor immediately so that problems can be resolved by the deadline. Technical difficulties need to be addressed through the WebCT help link. Assignments must be submitted on time; due to the nature of this course, late submissions will not be accepted after the due date and will result in a “0” for that part of the assignment.
**Office hours:**
If you would like to personally meet, please call or email to set up a time.

**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 Wright (940-397-4615)
College Dean – Dr. Patti Hamilton (940-397-4594)
Dean of Students – Dail Neely (940-397-6273)

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### Grading Scheme

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Question &amp; Outline</td>
<td>3%</td>
</tr>
<tr>
<td>Title Page</td>
<td>2%</td>
</tr>
<tr>
<td>Reference List</td>
<td>25%</td>
</tr>
<tr>
<td>Body of Paper</td>
<td>35%</td>
</tr>
<tr>
<td>Abstract</td>
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<tr>
<td>Final Paper</td>
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### Grade Scale

<table>
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<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
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<tbody>
<tr>
<td>A</td>
<td>100 – 90</td>
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<tr>
<td>B</td>
<td>89 - 80</td>
</tr>
<tr>
<td>C</td>
<td>79 - 70</td>
</tr>
<tr>
<td>D</td>
<td>69 - 60</td>
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<tr>
<td>F</td>
<td>Below 60</td>
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### TENTATIVE CLASS SCHEDULE

<table>
<thead>
<tr>
<th>Action</th>
<th>By</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Question Proposal &amp; Content Outline due</td>
<td>Student</td>
<td>January 27</td>
</tr>
<tr>
<td>Notification of Instructor Approval</td>
<td>Instructor</td>
<td>February 3</td>
</tr>
<tr>
<td>Title Page due</td>
<td>Student</td>
<td>February 10</td>
</tr>
<tr>
<td>Title Page graded by</td>
<td>Instructor</td>
<td>February 17</td>
</tr>
<tr>
<td>Reference List due</td>
<td>Student</td>
<td>February 24</td>
</tr>
<tr>
<td>Reference List graded by</td>
<td>Instructor</td>
<td>March 9</td>
</tr>
<tr>
<td>Completion of BS Program Survey</td>
<td>Student</td>
<td>March 9</td>
</tr>
<tr>
<td>Spring Break!!!!!!!!</td>
<td></td>
<td>March 12-17</td>
</tr>
<tr>
<td>Last Day to Drop with a “W”, 4 pm CST</td>
<td></td>
<td>March 19</td>
</tr>
<tr>
<td>Body of Paper due</td>
<td>Student</td>
<td>March 26</td>
</tr>
<tr>
<td>Body of Paper graded by</td>
<td>Instructor</td>
<td>April 9</td>
</tr>
<tr>
<td>Abstract due</td>
<td>Student</td>
<td>April 13</td>
</tr>
<tr>
<td>Abstract graded by</td>
<td>Instructor</td>
<td>April 20</td>
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<tr>
<td>Final Paper due</td>
<td>Student</td>
<td>April 27</td>
</tr>
<tr>
<td>Final Paper graded by</td>
<td>Instructor</td>
<td>May 11</td>
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