SAN DIEGO STATE UNIVERSITY
DPT 882 Evidence Based Practice II: Research Applications
Spring 2017, 3 units, Clock Hours (45 Lecture)
Wednesdays, 2-4:40 pm, AH-1112

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Office Location: ENS 118  E-mail: sgombatto@mail.sdsu.edu
Office hours: Wednesdays 12:30-2pm

Prerequisites
Acceptance into the SDSU Doctor of Physical Therapy program and satisfactory completion of all prior didactic courses in the DPT curriculum.

Required Course Materials
- The instructor and/or mentor will provide additional required journal article readings.

Recommended Course Materials

Course Overview
Use of evidence in current physical therapy practice. This course is designed to build on the knowledge gained in DPT 881 and to develop the foundation for conducting the Doctoral Research Project. Students will refine their skills as consumers of physical therapy research by practicing the article appraisal process during guided journal clubs. Students will synthesize a body of knowledge in a particular research area, under the guidance of the instructor and research mentor, in the form of a literature review, to provide a foundation for the research project and to formulate a targeted research question.

Teaching Methods and Learning Experiences
The format of this class will include interactive lectures, class discussions, journal clubs, written assignments, and oral presentations. All students are expected to be active participants in their respective research groups and in all class discussions and presentations.

Program Goals, Expected Student Outcomes, and Course Objectives
Upon successful completion of this course, the student will be able to:
1. Critically appraise, thoughtfully analyze, and discuss original research articles. [P-3.2, S-7D11]
2. Utilizing electronic databases and information technology, conduct a review of the current literature related to the Doctoral Research Project and document the process. [P-3.2, S-7D11]
3. Synthesize and summarize the current literature related to the Doctoral Research Project in a literature review matrix. [P-3.2, S-7D11]
4. Explain the importance and apply the principles of respecting the rights of human subjects while conducting research. [P-4.1]
5. Demonstrate competency in the background literature related to the Doctoral Research Project. [P-4.1]
6. Based on the literature review, develop a focused research question for the Doctoral Research Project and highlight the significance of the problem to physical therapy practice. [P-4.1, S-7D11]

7. Communicate pertinent information related to the background, significance, and research question for the Doctoral Research Project in the form of a written literature review and oral presentation. [P-4.1,S-7D11,S-7D12]

Course Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Class Topic</th>
<th>Readings/Assignment/Mentor Work</th>
<th>Course Objective</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/18/17</td>
<td>Course Overview</td>
<td>Student groups submit preferences for research group projects by Friday 1/20/17 at 5pm.</td>
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<tr>
<td></td>
<td></td>
<td>Intro to Doctoral Research Projects</td>
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<tr>
<td></td>
<td></td>
<td>Mentors present research topics.</td>
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<tr>
<td>2</td>
<td>1/25/17</td>
<td>Systematic Reviews</td>
<td>Read Assigned Systematic Review Article</td>
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<td></td>
<td></td>
<td>Class Journal Club</td>
<td>Research group projects assigned.</td>
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<td></td>
<td></td>
<td>Literature Review Process &amp; Matrix Development</td>
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<tr>
<td>3</td>
<td>2/1/17</td>
<td>Observational Research</td>
<td>Read Assigned Observational Research Article for class.</td>
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<td></td>
<td>Class Journal Club</td>
<td>Journal Club with Mentor (1)</td>
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<tr>
<td></td>
<td></td>
<td>Group Work on Literature Review Matrix</td>
<td>Discuss keywords and authors for lit search</td>
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<tr>
<td>4</td>
<td>2/8/17</td>
<td>Outcomes Research</td>
<td>Read Assigned Outcomes Research Article</td>
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<td></td>
<td>Class Journal Club</td>
<td>Journal Club with Mentor (2)</td>
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<tr>
<td>5</td>
<td>2/15/17</td>
<td>APTA CSM</td>
<td>Journal Club with Mentor (3)</td>
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<td></td>
<td>NO CLASS (Journal Clubs with Mentor)</td>
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<tr>
<td>6</td>
<td>2/22/17</td>
<td>Clinical Practice Guidelines</td>
<td>Read Assigned Clinical Practice Guidelines Research Article</td>
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<td></td>
<td></td>
<td>Class Journal Club</td>
<td>Journal Club with Mentor (4)</td>
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<tr>
<td>7</td>
<td>3/1/17</td>
<td>Group Work on Outline &amp; Matrix</td>
<td>Journal Club with Mentor (5)</td>
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<td></td>
<td>Present to Peer Groups</td>
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<tr>
<td>8</td>
<td>3/8/17</td>
<td>NO CLASS (Journal Club with Mentor)</td>
<td>LITERATURE REVIEW MATRIX &amp; Outline DUE (blackboard)</td>
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<td>Complete CITI TUTORIALS</td>
<td>Journal Club with Mentor (6)</td>
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<tr>
<td>9</td>
<td>3/15/17</td>
<td>NO CLASS (Journal Club with Mentor)</td>
<td>Post CITI Completion Certificate on blackboard and email to mentor.</td>
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<td>Complete CITI TUTORIALS</td>
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<tr>
<td>10</td>
<td>3/22/17</td>
<td>Literature Review Development Workshop</td>
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<td>11</td>
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<td>SPRING BREAK - NO CLASS</td>
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<td>12</td>
<td>4/5/17</td>
<td>Literature Review Presentation, Class Discussion &amp; Feedback</td>
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<td>13</td>
<td>4/12/17</td>
<td>Literature Review &amp; Presentation ~ Group Work</td>
<td>DRAFT Literature Review DUE TO PEER reviewers.</td>
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<tr>
<td>14</td>
<td>4/19/17</td>
<td>Literature Review &amp; Presentation ~ Group Work</td>
<td>PEER FEEDBACK on Literature Review DUE back to groups.</td>
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<tr>
<td>15</td>
<td></td>
<td>GROUP PRESENTATIONS (to be assigned)</td>
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<tr>
<td>16</td>
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<td>GROUP PRESENTATIONS (to be assigned)</td>
<td>FINAL Literature Review DUE.</td>
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<tr>
<td>FINALS</td>
<td></td>
<td>Attend Doctoral Project Presentation</td>
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Assessment

Graded Assessments % Grading Scale
Literature Review Matrix & Outline 30% A >94.0%
Final Literature Review 35% A- 90.0 – 93.9%
Research Group Presentation 20% B+ 87.0 – 89.9%
Human Subjects & Privacy Tutorials 5% B 84.0 – 86.9%
Participation 10% B- 80.0 – 83.9%
TOTAL (Overall) 100% C+ 77.0 – 79.9%

C 74.0 – 76.9%
C- 70.0 – 73.9%
D+ 67.0 – 69.9%
D 64.0 – 66.9%
D- 60.0 – 63.9%

Students must earn a grade of C or higher to receive credit for this course. Please refer to the DPT Student Handbook for policies on repeating courses that do not meet the minimum grade standard for graduate courses.

Grading Criteria The determination of a grade for this class will be based upon the completion of the tasks and assignments listed below. Additional detail on the requirements for each assignment will be provided in class.

• Literature Review Matrix Assignment: Each research group is required to work together to complete this assignment. The purpose of the literature review matrix is to help the students organize their literature review and summarize aspects of the current literature that are relevant to the research project.

• Literature Review: Each research group will develop an 8-10 page literature review based on the topic for the assigned Doctoral Research Project. Students will develop an outline, a rough draft, and then a final proposal. The final proposal will include the following components: review of the relevant background literature, a focused research question based on the literature review, and significance of the research question to physical therapy practice.

• Research Group Presentation: Each research group will present their review of the literature and research question for their Doctoral Research Project to their fellow classmates, the instructor, and faculty research mentors during class.

• Human Subjects and Privacy Tutorials: Each individual student is required to complete 2 tutorials on human subjects research, and information privacy & security provided by CITI (through SDSU). The student is required to: 1) email a pdf copy of the completion certificate to the research mentor and 2) upload a pdf copy of the certificate to blackboard. This tutorial will take several hours to complete, but it does not need to be completed in a single session. Please follow the instructions provided on blackboard (from the SDSU Human Research Protection Program) and use the link below to register for an account and login to access the tutorial.

https://www.citiprogram.org/

• Participation:
  • Class Participation: Students are expected to actively participate in all class activities. Participation during class discussions and during research group meetings and journal club is
necessary and considered an integral part of your learning in the course. It is my expectation that participation, including feedback, will be positive and constructive.

- **Journal Club/Lab Participation:** Students are expected to actively engage in journal club discussions with their research group and mentor. Each student will be required to run one journal club during the semester. Each mentor will be completing an evaluation form to indicate the individual students’ and overall group level of participation in journal club meetings. This evaluation will be used, in part, to assign the participation grade for this course.

- **Criteria for all written assignments:**
  - All assignments due must be submitted on **Blackboard** in the format stipulated in the assignment.
  - All original assignments must be posted on Blackboard **no later than Noon (12 pm) Pacific time on due date.**
  - Detailed instructions and grading criteria for each assignment will be provided. At a minimum, all responses should thoughtfully, but concisely reflect the student’s original interpretation, reflections, and process.

**Course Policies**

1. **Attendance and Tardiness:** Missing class adversely affects learning and contributes to poor academic performance. Tardiness also disrupts the class, your peers, and instructor. Being present and on time to every scheduled class is the professional responsibility of the student. **Requests for an excused absence must be sent to the instructor in writing at least one week in advance of class, and may or may not be granted at the discretion of the instructor.** In the event a student is absent due to sudden illness or other emergent circumstance, **the instructor must be notified by email as soon as possible before class begins.** Any tardiness or absence from class without prior consent of the instructor will be considered unexcused. At the discretion of the instructor, two unexcused absences in a course may result in a failing grade for that course (see attendance policy in DPT Student Handbook). The student is responsible for all material covered in class regardless of whether an absence is excused or unexcused. Graded assignments, quizzes, and exams that are missed during an excused absence may be rescheduled with prior permission of the instructor. **Graded class work will not be rescheduled for unexcused absences; the student will receive a grade of 0 for any missed work.**

2. **Mutual Respect:** “The Golden Rule.” Students are expected to treat fellow students and faculty members with the respect that they would like to be shown. A relaxed, professional atmosphere in class with participation from the students is essential for the learning process. Please ask questions and express differences of opinion in a respectful manner - questions and respectful debate enhance the total learning experience.

3. **Social Media:** Students are expected to refrain from phone calls, text-messaging and online social networking during class and laboratory sessions.

4. **Posting of Course Materials on Blackboard:** The instructor will make every effort to post course materials on Blackboard before the scheduled lecture. However, this is not always possible and students should be prepared to take written notes in class. Any course materials that are not posted prior to lecture will be posted within 24 hours after lecture.

5. **Grade Disputes:** If you would like to dispute a question or grade on an assignment or exam, you must do so in writing within 48 hours of when the assignment or exam is returned. In your written
dispute, you must include your rationale for the dispute and any related references (textbook or article).

6. **Lecture Recordings**: Lectures may not be recorded unless you have received written permission from the instructor. If the instructor grants you permission to record a lecture, recordings are ONLY for personal use and may not be posted or distributed in any form.

7. **Academic Dishonesty - Plagiarism and Cheating**: The University adheres to a strict policy regarding cheating and plagiarism. These activities will not be tolerated in this class. Any cheating or plagiarism will result in a disciplinary review by Student Affairs. Penalties for cheating and plagiarism may include a failing grade on a particular assignment, failing a course, and/or expulsion from the University.

Examples of Plagiarism include but are not limited to:
- Using sources verbatim or paraphrasing without giving proper attribution (this can include phrases, sentences, paragraphs and/or pages of work)
- Copying and pasting work from an online or offline source directly and calling it your own
- Using information you find from an online or offline source without giving the author credit
- Replacing words or phrases from another source and inserting your own words or phrases
- Submitting a piece of work you did for one class to another class

If you have questions on what is plagiarism, please consult the policy: [http://go.sdsu.edu/student_affairs/srr/conduct.aspx](http://go.sdsu.edu/student_affairs/srr/conduct.aspx)

For more information on University and DPT Program policies regarding cheating and plagiarism, refer to the SDSU General Catalogue and the DPT Program Student Handbook.

8. **Students with Disabilities**: If you are a student with a disability and believe you will need accommodations for this class, it is your responsibility to contact Student Disability Services at (619) 594-6473. To avoid any delay in the receipt of your accommodations, you should contact Student Disability Services as soon as possible. Please note that accommodations are not retroactive, and that I cannot provide accommodations based upon disability until I have received an accommodation letter from Student Disability Services. Your cooperation is appreciated. If you have an existing documented disability, please provide me with documentation no later than the second class meeting so that reasonable accommodations can be made.

9. **Religious Holidays**: A student who is unable to participate in any class, examination, or assignment due to his or her religious holy day requirements shall not be penalized, provided the instructor has been notified in writing one week prior to the absence.

10. Please refer to the DPT Student Handbook for course policies on **Professional Behaviors and Attire**.