Introduction to the Scholarship of Teaching and Learning  
BIOL 5902 – 1 Credit (Credit/No Credit)  
Fall 2015, Umrath 125, Thursday 12:00-1:00pm

Instructors:  
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<thead>
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Course Description and Goals:  
In this course, students will be introduced to the fundamentals of the Scholarship of Teaching and Learning (SoTL), including the practice of developing, reflecting on, and evaluating teaching methods to improve student learning. The scholarship of teaching and learning incorporates knowledge from educational and cognitive-psychology research, and it leads to the dissemination of new knowledge to a broad audience of educators. Students will learn to articulate questions about classroom teaching that can be addressed in a SoTL research project. Working from these questions, students will develop research hypotheses; design an evaluative plan; describe specific research methods (including the type of data to be collected); understand how to analyze the data relative to the hypotheses. By the end of this course, students will have designed a research plan for a SoTL project.

Course Grades:  
1. 8 Assignments (80%) (80 points total)  
2. Class participation (20%) (20 points total)

This is a credit/no-credit course. To receive credit, a student must complete all assignments, must participate in class, accumulate **80 points out of 100 total points**, and have no more than one absence, which must be excused.

Participation in Class:  
No more than one absence is allowed, and it must be excused. Active participation during group discussion is required.

Assignments:  
All assignments should be submitted on Blackboard before class begins on Thursday at 11:59 am. Please bring a copy of the assignment with you to class. Details about how to complete each assignment will be provided in class 1-2 weeks before the assignment is due.

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<thead>
<tr>
<th>Due Date/Time</th>
<th>Assignment</th>
<th>Points</th>
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<tbody>
<tr>
<td>Thursday 9/10 at 11:59am</td>
<td>HW 1: Choose 1 topic and search for 3 references regarding that topic</td>
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<tr>
<td>Thursday 9/17 at 11:59am</td>
<td>HW 2: Draft a research question</td>
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<tr>
<td>Thursday 10/1 at 11:59am</td>
<td>HW 3: Draft learning objectives and hypotheses</td>
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<tr>
<td>Thursday 10/8 at 11:59am</td>
<td>HW 4: Revise learning objectives and hypotheses</td>
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<tr>
<td>Thursday 10/22 at 11:59am</td>
<td>HW 5: Outline of the study design</td>
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<tr>
<td>Thursday 11/12 at 11:59am</td>
<td>HW 6: Revise final study design</td>
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<tr>
<td>Thursday 11/12 at 11:59am</td>
<td>HW 7: IRB application</td>
<td>10</td>
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<tr>
<td>Thursday 12/3 at 11:59am</td>
<td>HW 8: Scholarship of Teaching and Learning poster</td>
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**Total Number of Points** 80
References and Literature:
Required readings and additional literature will be posted on Blackboard or provided during class.

Ethics:
Evidence of cheating or attempted cheating will be forwarded to the Committee for Student Academic Integrity. Students found guilty by the Committee will be given a grade of F for the course. In addition, they will be referred to the Dean for further disciplinary action. Please refer to the “Statement of Student Academic Integrity” on page VI of the Course Listings or at:

(URL: https://acadinfo.wustl.edu/WUCRSLFrontMatter/WebWUCRSLInfo_AcadIntegrity.htm)

Disclaimer:
The instructors reserve the right to make modifications to this information throughout the semester.

SCHEDULE

Note: Homework assignments should be submitted on Blackboard before class begins on Thursdays at 11:59 am. Additional details about assignments and using Blackboard will be provided in class.

Week 1—8/27 – Introducing the Spectrum of Pedagogical Research
    HW 1: Choose 1 topic and search for 3 references regarding that topic (due by 9/10)

Week 2—9/3 – Focus on SoTL; Searching the literature

Week 3—9/10 – Research Questions
    HW 2: Draft a research question (due by 9/17)

Week 4—9/17 – Examples of SoTL projects at WUSTL

Week 5—9/24 – Developing learning objectives and research hypotheses
    HW 3: Draft learning objectives and hypotheses (due by 10/1)

Week 6—10/1 – Group work on research hypotheses and learning objectives
    HW 4: Revise learning objectives and hypotheses (due by 10/8)

Week 7—10/8 – Study Design
    HW 5: Create an outline of your study design (due by 10/22)

Week 8—10/15 – Qualitative Research

Week 9—10/22 – Quantitative Research and Mixed methods

Week 10—10/29 – Characteristics of effective survey construction
    HW 6: Revise your study design (due by 11/12)

Week 11—11/5 – IRB Overview and Procedures, Risks, and Ethics in Educational Research
    HW 7: IRB application (due by 11/12)

Week 12—11/12 – Group work on study designs
HW 8: Poster (due by 12/3)

Week 13—11/19 – Final Presentations

Week 14—11/26—NO CLASS—Thanksgiving Break

Week 15—12/3 – Final Presentations