

California University of Pennsylvania
University Course Syllabus
Department of Health Science
UCC Approval date: 10/16/17

A. Protocol

Course Name: Research Project I
Course Number: ATE 661
Credits: 2
Prerequisites: Enrollment in the PMSAT Program and ATE 660
Maximum Class Size (face-to-face): 30
Maximum Class Size (online): N/A

B. Objectives of the Course:

Upon completion of the course, students should be able to:

- 1) Identify the requirements of experimental research design.
- 2) Recognize the components and worthiness of an Institutional Review Board application.
- 3) Appraise scientific research in regards to subject safety and institutional review principles.
- 4) Develop methods to investigate an athletic training related research question.
- 5) Assemble a research proposal to include an introduction, methods and literature review.

C. Catalog Description:

This course is designed to facilitate the development of a research thesis or project from their research question created in ATE 660. Students will write an introduction, methods, literature review, and IRB application. Students will be required to propose their research to the course instructor, research committee, and campus community through a formal presentation. Students will be introduced to current library research resources and methodology through interaction with librarian assigned to work with this discipline.

D. Outline of the Course:

Research Design

Internal and External Validity
Measurement in Athletic Training
Basic Referencing and Citation

The Institutional Review Board

Historical Review
Components of an IRB application
Application Process - on and off campus
Research with Minors and Special Populations
Common Errors and Pearls of Wisdom

Writing the Introduction

Introduction and Definitions
Limitations and Delimitations
Statement of the Problem
Significance Statement
Forming your Hypothesis
Variables

Formulating your Methods

- Types of Research Design
- Choosing and Recruiting Subjects
- Instrumentation
- Ensuring Reliability and Validity
- Power, Preliminary Research and Pilot work
- Statistical Analysis

The Literature Review

- Components of a Literature Review
- Formatting and Writing Style
- Proper Referencing and Resources
- Common Problems and Pearls of Wisdom

E. Teaching Methodology:

- 1) Traditional Classroom Methodology
Lecture, Small Group Projects, Writing Assignments
- 2) Online Methodology
NA

F. Text

Required

Arnold, Gansneder and Perrin *Research Methods in Athletic Training* F.A. Davis
ISBN0-8036-0778-4

G. Assessment Activities:

- 1) Traditional Classroom Assessment
Writing assignments, small group projects, case studies, quizzes.
- 2) Online Assessment
NA

H. Accommodations for Students with Disabilities:

OSD

Revised June 2015

STUDENTS WITH DISABILITIES

Students reserve the right to decide when to self-identify and when to request accommodations. Students requesting approval for reasonable accommodations should contact the Office for Students with Disabilities (OSD). Students are expected to adhere to OSD procedures for self-identifying, providing documentation and requesting accommodations in a timely manner.

Students will present the OSD Accommodation Approval Notice to faculty when requesting accommodations that involve the faculty.

Contact Information:

- Location: Carter Hall - G-35
- Phone: (724) 938-5781
- Fax: (724) 938-4599
- Email: osdmail@calu.edu

- Web Site: <http://www.calu.edu/osd>

I. Title IX Syllabus Addendum

California University of Pennsylvania Reporting Obligations of Faculty Members under Title IX of the Education Amendments of 1972, 20 U.S.C. §1681, *et seq.*

California University of Pennsylvania and its faculty are committed to assuring a safe and productive educational environment for all students. In order to meet this commitment and to comply with the Title IX of the Education Amendments of 1972 and guidance from the Office of Civil Rights, the University requires faculty members to report incidents of sexual violence shared by students to the University's Title IX Coordinator, Dr. John A. Burnett, Special Assistant to the President for EEO, Office of Social Equity, South Hall 112, Burnett@calu.edu, 724-938-4014. The only exceptions to the faculty member's reporting obligation are when incidents of sexual violence are communicated by a student during a classroom discussion, in a writing assignment for a class, or as part of a University-approved research project. Faculty members are obligated to report sexual violence or any other abuse of a student who was, or is, a child (person under 18 years of age) when the abuse allegedly occurred to the person designated in the University protection of minors policy.

The University's information regarding the reporting of sexual violence and the resources that are available to victims of sexual violence is set forth at:

- **Office of Social Equity**, South Hall 112, 724-938-4014
 - Social Equity Home Page www.calu.edu/SocialEquity
 - Social Equity Policies www.calu.edu/SEpolicies
 - Social Equity Complaint Form www.calu.edu/SEcomplaint
- **Counseling Center**, Carter Hall G53, 724-938-4056
- **End Violence Center**, Carter Hall G94, 724-938-5707
- **Student Affairs**, Natali Student Center 311, 724-938-4439
- **Wellness Center**, Carter Hall G53, 724-938-4232
- **Women's Center**, Natali Student Center 117, 724-938-5857
- **Threat Response Assessment and Intervention Team (T.R.A.I.T.) & Dept. of Public Safety & University Police**, Pollock Maintenance Building, 724-938-4299
 - **EMERGENCY:** From any on-campus phone & Dial **H-E-L-P** or go to any public pay phone & **Dial *1**. (*Identify the situation as an emergency and an officer will be dispatched immediately.)

J. Supportive Instructional Materials, e.g. library materials, web sites, etc.

Health Science Database in Library- <http://library.calu.edu/home>

AMA style manual- <http://www.amamanualofstyle.com/>

Zotero- <https://www.zotero.org/>

Centre for Evidence Based Medicine- www.cebm.net

SPSS tutorial sites- <https://www.spss-tutorials.com/basics/>

Purdue Online Writing Lab (OWL)- <https://owl.english.purdue.edu/owl/>

Professional literature sources: Journal of Athletic Training (<http://natajournals.org/?code=nata-site>),
Medicine in Science and Sports (<http://journals.lww.com/acsm-msse/pages/default.aspx>), American Journal
of Sports Medicine (<http://journals.sagepub.com/home/ajs>)

Physiotherapy Evidence Database (PEDRO) <https://www.pedro.org.au/>

Van Lunen, B., Hankemeier, D., & Welch, C. (2015). Evidence-Guided Practice: A Framework for Clinical Decision Making in Athletic Training. SLACK Inc.

Additional Information for Course Proposals

K. Proposed Instructors:

Any qualified Health Science faculty.

L. Rationale for the Course:

This course will build upon work completed in ATE 660, specifically expanding upon the students research question. Students will continue to develop their research theme through the creation of a research proposal that includes an introduction, methods, and literature review of their proposed topic. An IRB application will also be prepared and submitted to the IRB for approval (if warranted).

M. Specialized Equipment or Supplies Needed:

None

N. Answer the following questions using complete sentences:

1) Does the course require additional human resources? (Please explain)

No

If Yes, click here to answer Question N1, above.

2) Does the course require additional physical resources? (Please explain)

No

If Yes, click here to answer Question N2, above.

3) Does the course change the requirements in any particular major? (Please explain)

Yes

This is a new course and is a part of the new/revised major, the professional master of science in athletic training.

4) Does the course replace an existing course in your program? (If so, list the course)

No

If Yes, click here to answer Question N4, above.

5) How often will the course be taught?

Annually in the spring semester

Click here to add text to qualify your selection for course timing, if necessary.

6) Does the course duplicate an existing course in another Department or College? (If the possibility exists, indicate course discipline, number, and name)

No

Click here if the answer to Question N6, above is YES. Indicate the other discipline/department and the other course number and name.

- O. If the proposed course includes substantial material that is traditionally taught in another discipline, you must request a statement of support from the department chair that houses that discipline.

N/A

- P. Please identify if you are proposing to have this course considered as a menu course for General Education. The General Education Committee must consider and approve the course proposal before consideration by the UCC.

No

Q. Approval Form

Provide the Approval Form (Signature Page) with the signatures of your department Chair AND college Dean (electronically).