Course: PHS 660, **Mentored Research Experience**
(Section varies by instructor, 1 Credit Hour taken in 3 different terms)

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Course Description:

This course is intended as an opportunity for Population Health Science PhD students to gain skills and experience in the conduct of research and in the application of various research methods, and/or to apply already learned skills to real-world research problems. Appropriate research activities include any across the spectrum of research, for example: planning a study, writing a grant application, joining an already underway research project as a research assistant, collecting data, data analysis, and dissemination activities such as authoring or co-authoring a manuscript. The student will choose a research mentor and arrange for the activities and deliverables that will constitute the PHS 660 course. The student is expected to work with the mentor to detail activities and deliverables that correspond to the specified time requirement (1 credit = approx. 4 hrs./week).

Prerequisites:

1. Student must take the CITI Human Subjects Research Training if they have not already done so. Instructions are here, under CITI Registration (you do not need to do COI or JeffTrial)
   https://research.jefferson.edu/clinical/personnel/human-research/training-coi.html

2. Students must register for the iRIS IRB management system. Instructions are here:
   https://research.jefferson.edu/clinical/personnel/human-research/iris-access-resources/student-training-access.html

Course objectives:

To be developed by student and mentor and detailed on the form at the end of this document. Examples include:

Research Project Planning/IRB
Proposal Writing – Grant Submission
Advanced Analytic techniques in biostatistics or epidemiology
Conducting a systematic review/meta-analysis
Advanced Qualitative Methods & Analysis
Design & implementation of survey research
Manuscript writing/submission
Development of a conceptual model in the area of research
Conduct of Peer-Review

Optional/Suggested Course Deliverables

To be developed by student and mentor, and detailed on the form at the end of this document. May include:

Annotated Bibliography/Literature Review
Manuscript/portions of a manuscript

Analytic Product (e.g. Method and/or Result Section)
Research Proposal/Grant Application
Conceptual Model

Required Course Deliverable:

- ✓ Summary of research activities and skills gained on student's cv (submit a description and a copy of your cv to the course director at the end of the term)

Course Notes:

- You are encouraged to choose a research area/group and to undertake research activities that are appropriate for amount of experience you have when registering.
- You are encouraged to work with your research mentor to identify a dissemination strategy for the research, when appropriate (for example, abstract submission at a conference or other dissemination avenue).

Required Texts:

None. It is encouraged that you develop a reading list with your mentor/research team and submit it as a deliverable of the course.

Suggested Texts/Resources:

All students are strongly encouraged to read the following article: "How Science Works"
http://undsci.berkeley.edu/lessons/pdfs/how_science_works.pdf

American Psychological Association. (2009) *Publication Manual of the American Psychological Association*, 6th (2009) Edition. Washington, D.C.: Author.
ISBN – 978-1-4338-0561-5 (or the online version through Purdue.edu)

Green S.B. & Salkind N.J. Using SPSS for Windows and Macintosh. 5th Edition Recommended.

Locke, LF, Spirduso, W.W., and Silverman, S.J. (2013). *Proposals that work: A guide for planning dissertations and grant proposals*. (6th Ed). Thousand Oaks, CA: Sage.
ISBN 978-1-4522-1685-0

Kanji, G. *100 Statistical Tests*. Available in full text (pdf) online.

Course policies:

*Any individual with the appropriate skills and research experience may serve as the research mentor. When the identified mentor is not a Jefferson Faculty member, the student must provide the course director a copy of the mentor's cv, or other evidence of the mentor's research accomplishments and/or skills/knowledge that bear on the student's chosen research experience.
*The student (in collaboration with the mentor/team) must develop at least two deliverables for the course. See above for examples of deliverables.
*The deliverables and a schedule for their delivery must be agreed upon by the student and the mentor and approved by the course director. The agreement should be formalized no later than the middle of the semester.
*The course director will be responsible for the final grade for the student in PHS660, in collaboration with the research mentor.
*The student is responsible for timely check-ins with the research mentor. Should any issues arise during the course, the student is responsible for informing the course director.

Other:

This course will adhere to the Jefferson College of Population Health's Code of Conduct and Academic Policies and Procedures, re: Grade Quality Points, Academic Integrity, Confidentiality of Student Records, Disability Accommodations, Add / Drop / Withdrawal, Grade Appeal Protocol, Registration, etc., as contained in the Jefferson College of Population Health Student Handbook.

Grading: The course is graded on a Pass/Fail scale.

Students: Complete this form in consultation with your chosen mentor. You and the mentor must sign the document first, then forward to the program director who will sign it and forward to the Director of Academic Affairs. You will then be notified when you can register.

Student Name: _____

Term: F, S, Sum, 20_____

Mentor Name: _____

Mentor Contact Info:

Research Activities and objectives for the course:

Course Deliverables (agreed upon by student and mentor):

Student Signature: _____

Date: _____

Mentor Signature: _____

Date: _____

Instructor Signature: _____

Date: _____