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Fall 9-1-2000

### PHAR 595.02: Graduate Seminar - Academia and Research

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**PHAR 595**  
**Academia & Research**  
**Graduate Seminar (CRN 73928)**  
**Fall 2000**

**Course Information:**

Seminar meets Wednesdays from 3:10-5:00pm in SB 335 (2 credit hours).

Open to students enrolled in graduate programs in the departments of biological sciences, chemistry, pharmaceutical sciences, and psychology.

**Course Coordinators**

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**Goals:** The purpose of this course is to prepare graduates of the doctoral program for careers in academia. The topics in this course will complement the research training graduate students are currently receiving. Students completing this course will have the ability to prepare complete research proposals, design studies, promote themselves when competing for faculty positions, prepare courses, and assess student learning.

**Objectives:** Students completing this course should be able to do the following:

1. Given a research question, identify potential sources of funding and methods for obtaining information about current funding initiatives.
2. Given a research question, prepare sections of a grant proposal that includes an argument for the significance of the study, background information, appropriate study design, clearly stated methods for data collection and analysis, budget, and human/animal review board documents.
3. Given a completed proposal, provide peer-review and critique to the author.
4. Given feedback on a failed grant proposal, revise and modify the information for resubmission.
5. Given a proposal or completed project, present the information to an audience of their peers.
6. Given a completed project, prepare a manuscript that disseminates their findings.
7. Given a specific course or topic, prepare a course/class outline, including instructional methods and assessment items.
8. Given a post-doctoral or faculty position, identify potential pros and cons of the position and describe how they would compete for the position and negotiate terms of an employment contract.

**Expectations:**

Students will be active participants in the seminars.  
 Assignments will be completed prior to class meetings.

**Assessments of Student Learning:**

Letter grades will be based upon student performance on assignments. The two major assignments for this course are:

1. Preparation and presentation of selected portions of a PHS 398 grant proposal.
2. Preparation and presentation of an outline for an undergraduate class session (including outline of topics, instructional methods, and assessment items)

**Schedule of Topics**

Date	Topic	Lecturers
Sep 6	<u>Research proposals</u> : Parts of a proposal Review boards and informed consent	Diana Lurie Tim Stratton
Sep 13	<u>Research proposals</u> : Preparing budgets Generating ideas & identifying sources of funding	Tim Edwards Judy Fredenberg
Sep 20	<u>Research proposals</u> : Research plan Writing "specific aims"	Diana Lurie
Sep 27	<u>Research proposals</u> : Hypothesis testing Study plans & designs Statistics (examples)	Tim Stratton Jean Carter Diana Lurie
Oct 4	<u>Research proposals</u> : Review process Critiquing proposals	Diana Lurie
Oct 11	<u>Academia</u> : Learning styles and theories Preparing a class or course	Jean Carter
Oct 18	<u>Academia</u> : Instructional methods Site and content considerations	Group discussion
Oct 25	<u>Academia</u> : Instructional technology Demonstration (meet in room SB 117)	David Freeman
Nov 1	<u>Academia</u> : Assessment Evaluating teaching and learning	Group discussion
Nov 8	<u>Academia</u> : Higher education issues Faculty positions and contracts	Vernon Grund
Nov 15	<u>Research communication skills</u> Giving presentations and writing proposals	Howard Beall Rich Bridges
Nov 22	STUDENT TRAVEL DAY	
Nov 29	<u>Student presentations</u> Class lecture outlines & assessments	Students
Dec 6	<u>Student presentations</u> Class lecture outlines & assessments	Students
Dec 13	<u>Student presentations</u> PHS 398 proposals or current research	Students
Dec 20 Finals	<u>Student presentations</u> PHS 398 proposals or current research	Students