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Fall 9-1-2005

## BMED 635.01: Academic Development Seminar

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BMED 635 - Academic Development Seminar (2cr)  
Graduate Seminar (CRN 73855)  
Autumn 2005

**Course Information:**

The class will meet weekly on Monday afternoons from 3:10-5pm in SB 335.

This course is open to students enrolled in graduate programs in the departments of biological sciences, chemistry, pharmaceutical sciences, psychology, and physical therapy.

**Course Coordinators**

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**Optional Textbook:**

McKeachie W, Hofer B, Van Note Chism N, et al., *McKeachie's Teaching Tips : Strategies, Research, and Theory for College and University Teachers*, 11<sup>th</sup> Ed. Boston, MA: Houghton Mifflin (2002). Cost: ~\$45. It will be in the UM bookstore in the regular section (not with textbooks).

**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 completed project, present the information to an audience of their peers.
6. Given a specific course or topic, prepare a course/class outline, including instructional methods and assessment items.

- 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 attend and be active participants in all of the discussions and demonstrations. Assignments will be completed prior to class meetings.

### Assessments of Student Learning:

Letter grades will be based upon student performance on assignments and participation in weekly seminars. The two major assignments for this course are:

- Preparation and presentation of selected portions of a PHS 398 grant proposal.
- Preparation of a lesson plan for an undergraduate class session (including outline of topics, instructional methods, and sample test questions) and the presentation of a mini-lecture.

### Tentative Schedule of Topics

Date	Ses	Topic	Lecturers
Aug 29	1	<u>Course Overview</u> : Review of expectations & materials <u>Teaching</u> : Learning styles and theories Preparing a class or course	Jean Carter
Sept 5		<b>LABOR DAY HOLIDAY</b>	
Sept 12		<u>Teaching</u> : Instructional methods and technology Classroom and lab settings	David Freeman
Sept 19		<u>Teaching</u> : Assessment topics Evaluating teaching and learning	Jean Carter
Sept 26		<u>Teaching</u> : Innovations in teaching (Chemistry) Second speaker – Distance & on-line teaching	Mark Cracolice Melissa Holmes
Oct 3		<u>Academia</u> : Higher education issues Faculty positions and contracts	Vernon Grund
Oct 10		<u>Teaching</u> : Student presentations of mini-lectures	Jean Carter Diana Lurie
Oct 17		<u>Research</u> : Introduction to proposal preparation	Diana Lurie
Oct 24		<u>Research</u> : Parts of a proposal Research plan and writing “specific aims”	Diana Lurie
Oct 31		<u>Research</u> : Hypothesis testing Study designs and statistics (with examples)	Diana Lurie Ray Hamilton
Nov 7		<u>Research</u> : Identifying funding sources Proposal budgets	Judy Fredenberg Tim Edwards
Nov 14		<u>Research</u> : Animal Subjects & IACUC Human Subjects & IRB Feedback on study designs and analysis plans	Doug Coffin Sheila Hoffland Ray Hamilton
Nov 21		<u>Research</u> : Review process Writing and critiquing proposals	John Gerdes Diana Lurie
Nov 28		<u>Research</u> : Disseminating results Presentations, posters, and manuscripts	Diana Lurie
Dec 5		<u>Research</u> : Student presentations of proposed study	Diana Lurie Michael Kavanaugh
Dec 12		<u>Research</u> : Student presentations of proposed study	Diana Lurie Michael Kavanaugh