**Instructor Information**

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Course Overview or Purpose

This course provides practical instruction in the grant writing process, with a specific focus on National Institutes of Health (NIH) procedures. It provides the student with experience in writing a full grant application and in reviewing others’ grant applications. It also contains a Mock Grant Review session to assist students in understanding the process and content of grant review.

Prerequisites Epidemiology Methods II or permission of instructors.

Course Objectives and/or Goals

Upon successful completion of the course, students should be able to:
1. Discuss the National Institutes of Health funding structure, grant types, and application criteria.
2. Understand and correctly prepare a NIH grant application
3. Seek and respond to a Request for Proposal (F31 or K award). An application to other granting mechanisms must be approved from course instructor prior to submission.

Course Materials

Most required resources will be available via download; links will be provided.

Course Requirements/Evaluation/Grading of Letter Grade

<table>
<thead>
<tr>
<th>Grading Components</th>
<th>100 Points Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prior to class preparation</td>
<td>5</td>
</tr>
<tr>
<td>Research Topic</td>
<td>5</td>
</tr>
<tr>
<td>Specific Aims</td>
<td>5</td>
</tr>
<tr>
<td>Research Strategy</td>
<td>15</td>
</tr>
<tr>
<td>Flow chart-5pts</td>
<td></td>
</tr>
<tr>
<td>Significance-5pts</td>
<td></td>
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<tr>
<td>Approach-5pts</td>
<td></td>
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<tr>
<td>Biosketch</td>
<td>5</td>
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<tr>
<td>Training Plan</td>
<td>5</td>
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<tr>
<td>Letters of Support</td>
<td>5</td>
</tr>
<tr>
<td>Presentation</td>
<td>10</td>
</tr>
<tr>
<td>Completed F31 or K Grant Package</td>
<td>25</td>
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<tr>
<td>Peer Feedback Forms</td>
<td>10</td>
</tr>
<tr>
<td>Participation</td>
<td>10</td>
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All materials will be graded on the revised submission. Please include your name and date and draft number on every submission. Participation grade will include discussion of the draft materials (first submissions).
<table>
<thead>
<tr>
<th>Percentage or points earned in class</th>
<th>93% - 100%</th>
<th>90% - 92%</th>
<th>87% - 89%</th>
<th>83% - 86%</th>
<th>80% - 82%</th>
<th>77% - 79%</th>
<th>73% - 76%</th>
<th>70% - 72%</th>
<th>67% - 69%</th>
<th>63% - 66%</th>
<th>60% - 62%</th>
<th>Below 60%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Letter Grade equivalent</td>
<td>A</td>
<td>A-</td>
<td>B+</td>
<td>B</td>
<td>B-</td>
<td>C+</td>
<td>C</td>
<td>C-</td>
<td>D+</td>
<td>D</td>
<td>D-</td>
<td>E</td>
</tr>
<tr>
<td>Letter Grade Points</td>
<td>4.0</td>
<td>3.67</td>
<td>3.33</td>
<td>3.0</td>
<td>2.67</td>
<td>2.33</td>
<td>2.0</td>
<td>1.67</td>
<td>1.33</td>
<td>1.0</td>
<td>0.67</td>
<td>0.0</td>
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</table>

For greater detail on the meaning of letter grades and university policies related to them, see the Registrar’s Grade Policy regulations at [http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html](http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html)

**Class Sessions**

The class will utilize interactive, blended, and didactic teaching styles. Some class assignments will have a “mock” aspect. The “mock” aspect will provide students an opportunity to participate both as an applicant and a reviewer. This will involve both critiquing and having work critiqued. The work to be critiqued will be examined by both the instructor(s) and the student reviewer. In addition to submitting your assignments BEFORE the class period through e-learning, PLEASE BRING HARD COPIES of your work to class so peers can evaluate your work. The feedback will be graded, as will your revised version of each assignment.

This interactive style of learning demands that each participant actively prepares for in-class participation, and commits to the peer review process, an essential element of academic and scholarly life. Students are expected to take the review process seriously as it an important learning objective of this class.
<table>
<thead>
<tr>
<th>#</th>
<th>Date</th>
<th>Topic and (Assignments)</th>
<th>Description</th>
<th>Points</th>
</tr>
</thead>
</table>
| 1  | 05/15| Class will NOT meet! | Watch and be ready to discuss these: [http://youtu.be/-XXCnXc7VJI](http://youtu.be/-XXCnXc7VJI)  
[http://youtu.be/9cNRMsCGfHo](http://youtu.be/9cNRMsCGfHo)  
Navigate various resources—that is, be familiar with them because you will need to refer back to these for all assignments:  
[http://grants.nih.gov/grants/oer.htm](http://grants.nih.gov/grants/oer.htm)  
[http://grants.nih.gov/training/extramural.htm](http://grants.nih.gov/training/extramural.htm)  
[http://public.csr.nih.gov/aboutcsr/Pages/default.aspx](http://public.csr.nih.gov/aboutcsr/Pages/default.aspx)  
Interview 2 faculty from 2 different departments: 1) How many grants have they “read” in their career; 2) How many have they carefully reviewed as a primary or secondary reviewer. 3) What is their one sentence advice to you for writing your first grant? | 5 |
| 2  | 5/22 | Research Topic ( #1 one paragraph on topic; submit online before class and bring hard to class and #2 interview info; submit online be ready to discuss in class) | 1st hour: discuss your impressions of the youtube videos. Discuss if you see yourself as one of the grantee types. Discuss the information from faculty above. What do you find scary about the grant review process? What are the most important tips from the videos? How can you avoid these common mistakes?  
2nd and 3rd hour: Be prepared to share with the class your research interest—a question that you plan to address—or your dissertation question and an outline of what you would like to do. (You will write a F31 this semester.) | 5 |
| 3  | 5/29| Specific Aims ( #1 submit SA draft online before class) | 1st hour: review with classmates your aims (written after reviewing the guidelines on the NIH website). State concisely the goals of the proposed research and summarize the expected outcome(s), including the impact that the results of the proposed research will exert on the research field(s) involved.  
2nd hour: Instructor will reinforce the material on best practices for writing aims.  
3rd hour: Students present aims (randomly selected). For next week, revise them to turn them in for grading. | 5 |
| 4  | 6/5 | Flow chart ( #1 submit revised SA and #2 FC draft) | Review the flow charts on the course site. Bring to class a graphic representation of your study design including sample size, eligibility, all participation, all measures, intervention if applicable. Criteria for grading: clear, complete, and visually attractive.  
1st hour: review revised SA and get feedback.  
2nd hour: Instructors review best practices for flow charts.  
3rd hour: Students present flow charts (randomly selected). Turn | 5 |
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Activity</th>
<th>Instructors/Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>6/12</td>
<td>Significance (#1 submit revised FC and #2 Significance draft)</td>
<td>Explain how the research question challenges or seeks to shift current research or clinical practice paradigms. Review the NIH and other guidelines for Significance. Bring to class a B&amp;S section for review and what resources they used. 1st hour: Instructors will present hints for developing a strong Significance section. 2nd and 3rd hour: Students will review each others’ section.</td>
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<tr>
<td>6</td>
<td>6/19</td>
<td>Approach (#1 revised Significance and #2 Approach draft)</td>
<td>1st hour: discussion of principles for drafting an overall strategy, methodology, and planned analyses that are well reasoned and appropriate to accomplish the specific aims of the project. We will present you examples from successful grants. 2nd and 3rd hour: Review and discussion of students’ work (chosen at random).</td>
</tr>
</tbody>
</table>
| 7    | 06/22-07/03 NO class! | Biosketch (Final POLISHED version due 07/03)                  | Personal statement, position and honors, peer reviewed manuscripts, and research support NIH Biosketch template and sample can be accessed from: [http://grants.nih.gov/grants/funding/424/index.htm](http://grants.nih.gov/grants/funding/424/index.htm)  
**Arrange small group meeting** (3-4 students) to discuss and edit biosketch draft to generate final version |
| 8    | 7/10      | Training Plan in sections C7-9 (#1 Revised Approach and #2 TP draft)  | 1st hour: Discussion/edits of TP  
2nd hour: Biosketch discussion  
3rd hour: Revised Approach discussion |
| 9    | 7/17      | Reference Letters, Cover Letter, Academic record (#1 Revised TP and #2 draft letters) | 1st hour: Principles of each  
2nd hour: Discussion/edits each  
3rd hour: Open discussion |
| 10   | 7/24      | Grant presentation                                                   | Students will present 4-6 slides (max 10 min) to summarize their grant, followed by brief discussion and scoring. |
|      | 7/27 5PM! | Peer Feedback (due to students and instructors)                       | Critique of assigned presentations (reviewer's 1-3) |
|      | 07/31     | Final grant deadline                                                | 25 |
|      |           | Participation                                                       | 10 |

**Statement of University’s Honesty Policy (cheating and use of copyrighted materials)**

*Academic Integrity* – Students are expected to act in accordance with the University of Florida policy on academic integrity (see Student Conduct Code, the Graduate Student Handbook or this web site for more details: [www.dso.ufl.edu/judicial/procedures/academicguide.php](http://www.dso.ufl.edu/judicial/procedures/academicguide.php)).
Cheating, lying, misrepresentation, or plagiarism in any form is unacceptable and inexcusable behavior. We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.

**Policy Related to Class Attendance and Make-up Work**

This is an interactive class and students are expected to be present and to participate in all class sessions. Students who know they will need to miss a class session should discuss this with the instructor prior to the date of the class.

**Statement Related to Accommodations for Students with Disabilities**

**Accommodations for Students with Disabilities**

If you require classroom accommodation because of a disability, you must first register with the Dean of Students Office (http://www.dso.ufl.edu/). The Dean of Students Office will provide documentation to you, which you then give to the instructor when requesting accommodation. The College is committed to providing reasonable accommodations to assist students in their coursework.

**Counseling and Student Health**

Students may occasionally have personal issues that arise in the course of pursuing higher education or that may interfere with their academic performance. If you find yourself facing problems affecting your coursework, you are encouraged to talk with an instructor and to seek confidential assistance at the UF Counseling & Wellness Center, 352-392-1575. Visit their web site for more information: http://www.counseling.ufl.edu/.

The Student Health Care Center at Shands is a satellite clinic of the main Student Health Care Center located on Fletcher Drive on campus. Student Health at Shands offers a variety of clinical services, including primary care, women's health care, immunizations, mental health care, and pharmacy services. The clinic is located on the second floor of the Dental Tower in the Health Science Center. For more information, contact the clinic at 392-0627 or check out the web site at: www.health.ufl.edu/shcc

Crisis intervention is always available 24/7 from: Alachua County Crisis Center: (352) 264-6789. From the Crisis Center: “**Do not wait until you reach a crisis to come in and talk with us. We have helped many students through stressful situations impacting their academic performance. You are not alone so do not be afraid to ask for assistance.**”

**Class Demeanor Expected by the Professors**

As a classroom of scholars, the instructors will treat students with respect and expects respect in return. The classroom climate will be supportive, encouraging and open. To this end, no one should be taking calls or texts or using their laptops for other purposes than taking notes while
the class is in session, except in the case of emergency. Electronic items must be turned off if they appear to detract from classroom discussion and attention. Please listen attentively; participation is required. When opinions differ, please listen first, and then prepare to comment. If you feel you have been treated disrespectfully by any member of the scholastic community involved in this course, please bring this to the instructor’s attention privately for remediation.