Writing Grant Proposals for Scholarships and Fellowships

ABE 4935
Section 20858
Class Periods: Tuesdays, Period 8-9, 3:00pm - 4:55pm
Location: Frazier Rogers Hall 275
Academic Term: Fall 2025

Instructor:
Henry Medeiros
hmedeiros@ufl.edu
Frazier Rogers Hall 275,
352-294-6706
Office Hours: Mon. 3:00pm – 4:00pm (or by appointment)

Teaching Assistant/Peer Mentor/Supervised Teaching Student:
Check course Canvas site.

Course Description
Introduces seniors in the Agricultural and Biological Engineering department to opportunities for obtaining scholarships, fellowships, internships, and teaching/research assistantships from federal funding agencies; includes funding sources and opportunities, provide guidelines for proposal writing. Requires preparing a proposal (2 credits).

Course Pre-Requisites / Co-Requisites
ENC3246 or equivalent technical writing course, senior or graduate status in the Agricultural and Biological Engineering Department, or instructor permission.

Course Objectives
Students should leave the course with knowledge of the opportunities for obtaining funding to support graduate education (e.g., fellowships), as well as the basic tools needed for submitting a competitive research proposal.

Materials and Supply Fees
N/A.

Relation to Program Outcomes (ABET):

Outcome	Coverage
1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics	
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors	
3. An ability to communicate effectively with a range of audiences	High
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts	Medium
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative environment, establish goals, plan tasks, and meet objectives	Low
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions	
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies	Low

Required Textbooks and Software
Course notes provided by the instructor.

Recommended Materials
N/A.

Course Schedule

Week 1: Introduction to Grant Writing
Week 2: Personal Statement
Week 3: Outlining
Week 4: Research Vision
Week 5: Background and Knowledge Gaps
Week 6: Hypothesis and Problem Statement
Week 7: Data Collection and Objectives
Week 8: Methodology and Approach
Week 9: Peer Review Panel #1-Fellowship Proposals (5 pages, following NSF GRFP model)
Week 10: Visualization
Week 11: Title and Summary Page
Week 12: Holiday
Week 13: Oral Presentations
Week 14: Holiday
Week 15: Peer Review Panel #2-Mini research proposal (5 page research proposal)

Important Dates
10/21/25 Peer Review Panel #1-Fellowship Proposals
11/18/25 Oral Presentations
12/02/25 Peer Review Panel #2-Mini research proposal (Time, Location)

Evaluation of Grades

Assignment	**Percentage of Final Grade**
Attendance and Participation	10%
Homework	15%
Fellowship Essays	20%
Research Proposal	20%
Review panels	10%
Semester Project	10%
Research Portfolio	15%
	100%

Grading Policy

Percent	**Grade**	**Grade Points**
93.4 - 100	A	4.00
90.0 - 93.3	A-	3.67
86.7 - 89.9	B+	3.33
83.4 - 86.6	B	3.00
80.0 - 83.3	B-	2.67
76.7 - 79.9	C+	2.33
73.4 - 76.6	C	2.00
70.0 - 73.3	C-	1.67
66.7 - 69.9	D+	1.33
63.4 - 66.6	D	1.00
60.0 - 63.3	D-	0.67
0 - 59.9	E	0.00

Academic Policies & Resources
To support consistent and accessible communication of university-wide student resources, instructors must include this link to academic policies and campus resources: https://go.ufl.edu/syllabuspolicies. Instructor-specific guidelines for courses must accommodate these policies.

Commitment to a Positive Learning Environment
The Herbert Wertheim College of Engineering values varied perspectives and lived experiences within our community and is committed to supporting the University's core values.

If you feel like your performance in class is being impacted, please contact your instructor or any of the following:
- Your academic advisor or Undergraduate Coordinator
- HWCOE Human Resources, 352-392-0904, student-support-hr@eng.ufl.edu
- Pam Dickrell, Associate Dean of Student Affairs, 352-392-2177, pld@ufl.edu