

# Research Scholarship, Fall 2018 (ZOO 4926, IDS 4930, BOT 6935)

## Course Description

A variable topics course designed for undergraduate and graduate students participating in federally-sponsored research scholarship programs in the biomedical and life sciences. Objectives include development of scientific communication skills, research ethics and responsible conduct of research, scientific rigor and reproducibility, and the ability to critically evaluate scientific research. 1 credit. Repeatable for credit.

## Prerequisites

Scholar, trainee, or fellow in the UF Bioscience Scholars Program, MARC GatorSTAR Program, SF2UF Bridge Program, or other federally-funded research training program.

## Co-requisites

None

## Instructors

David Julian, PhD, Associate Professor, Dept. of Biology

Talline Martins, PhD, Director of Graduate Professional Development, Graduate School

## Meeting Time and Location

Class meets Fridays, period 5 or period 6, in 222 Carr Hall

## Office hours

By appointment

## Course Textbook

There is no required textbook for this course. Weekly reading materials will be accessible online.

## Materials and Supplies Fees

There are no additional fees for this course.

## Course Assignments

### *Reviews of Abstract Drafts*

Many of the students in the class have been preparing research abstracts for submission to the Annual Biomedical Research Conference for Minority Students (ABRCMS). On the first day of class (8/24), you will help review of several of these abstracts using a rubric and provide constructive feedback on improving the quality of the abstracts.

### *Interview Presentation*

During the week 2 meeting, you will interview and be interviewed by one of your classmates, after which you will give a one-minute presentation about the classmate you interviewed.

### *Stress Management 101*

Stress is a normal psychological and physical reaction, but a build-up of stress can lead to negative physical, psychological, social, and academic impacts. The Stress Management 101 workshop from the UF GatorWell staff provides an opportunity for you to explore the things that cause you stress, think about how your body and mind reacts to stress, and get introduced to a wide variety of stress management strategies. During this presentation, students in the class will identify personal stressors, identify personal signs of stress, and learn strategies for managing stress.

UF GatorWell's Stress Management Program offers students other education and resources to help you make healthy decisions about managing your stress. This includes Individual Wellness Coaching for Academic Success to help you set goals around stress management strategies, and [online resources](#) to help you manage stress and improve your academic success.

### *Manage Your Time, Maximize Your Potential*

Many college students have very busy schedules, so being able to organize and manage time is essential to success. In this interactive workshop, you will learn and practice strategies to identify important tasks and prioritize them, organize schedules and tasks, and overcome procrastination.

### *Three-Minute Research Presentation*

At the week 4 class meeting, you will give a three-minute presentation on your research. This should follow the three-minute thesis (3MT®) format. The basic format for any research talk is the following:

- Background and significance (what your research group works on and why it's important)
- Hypothesis or research question (the question or problem your specific research project is intended to address)
- Research approach (the basic design of your experiment and key methods, if necessary)
- Results (what you have found so far)
- Conclusion (what your results mean, or if you don't yet have clear results yet, what you expect or hope to find)

3MT is a research communication approach in which graduate students must make a compelling presentation on their thesis topic and its significance to a broad audience in just three minutes. This is associated with an international competition. Before you design and create your presentation, review the international 3MT rules. There is an official [3MT Preparation Guide](#), but there are six key rules:

1. A single, static PowerPoint slide is permitted (no slide transitions, animations or movement of any kind, the slide is to be presented from the beginning of the oration).
2. No additional electronic media (e.g., sound and video files) are permitted.
3. No additional props (e.g., costumes, musical instruments, laboratory equipment) are permitted.
4. Presentations are limited to 3 minutes maximum. Presenters exceeding 3 minutes are disqualified.
5. Presentations are to be spoken word (e.g., no poems, raps or songs).
6. Presentations are considered to have commenced when a presenter starts their presentation through movement or speech.

You can view videos of many excellent 3MT presentations here: <https://threeminutethesis.uq.edu.au/>.

### *UF 3MT Competition*

You will be expected to attend at least one round of the 2018 UF 3MT competition (you do not need to compete – you just need to attend one of the qualifying rounds or the final round). Information on the 2018 UF competition is here: <http://graduateschool.ufl.edu/about-us/events/3mt/>. When you attend a round, you will complete an evaluation sheet, and have that sheet signed by a 3MT organizer. You will submit that sheet to receive credit for attending the round. The schedule is below.

- Prelim Round 1: Tues, October 9<sup>th</sup>, at 2:00 pm in the Chamber Room, Reitz Union
- Prelim Round 2: Weds, October 10<sup>th</sup>, at 10:00 am in the Chamber Room, Reitz Union
- Prelim Round 3: Thurs, October 11<sup>th</sup>, at 2:00 pm in the Chamber Room, Reitz Union
- Final Event: Thurs, November 8<sup>th</sup>, at 2:00 pm in the Chamber Room, Reitz Union

### *Fall Undergraduate Research Symposium*

You will be expected to present a poster or give an oral presentation at the UF Undergraduate Research Symposium, which is hosted each semester by the UF Center for Undergraduate Research. The fall 2018 symposium will be held from 4-8 pm on Tuesday, October 23<sup>rd</sup>, in the Reitz Grand Ballroom. To be eligible, you must submit an abstract by Monday, October 1st, 2018 at 11:59 pm.

You will develop your abstract and poster in the class over the semester. Policies and rules, including abstract and poster format, are [available online](#). Note that your draft abstract and poster must be reviewed by your faculty research mentor (not just your graduate or postdoctoral student mentor) before presenting them to the class, your final abstract must be approved by your faculty mentor prior to submitting it online, and your final poster must be approved by your faculty mentor prior to presenting it at the symposium.

### *Individual Development Plans: Assessing Values and Competencies*

An individual development plan (IDP) is individually tailored and describes objectives and activities for your professional development. At this early stage of your career, an IDP can help you explore career possibilities and set goals to follow a career path that fits you best. In this workshop developed for us by the UF Career Connections Center, you will participate in activities to examine your values, competencies, and interests, and to begin developing a individualized plan for the coming year to help you meet professional development goals.

### *Responsible Conduct of Research*

NIH and NSF require all undergraduate, graduate, and postdoctoral students who receive federal research support as salary, stipend, or scholarship to complete training in the Responsible Conduct of Research (RCR). In response, the University of Florida requires all students and postdocs conducting research and paid (salary and/or stipend) directly from a project sponsored by NIH or NSF to complete the RCR Training provided through the Collaborative Institutional Training Initiative (CITI).

All students in the course must have completed the online CITI training prior to November 30th. After completion of the training, you should be familiar with the following essential RCR topics:

1. Research Misconduct
2. Data Acquisition and Management
3. Responsible Authorship
4. Peer Review
5. Laboratory Animal Welfare
6. Human Subjects Protections
7. Mentoring
8. Conflicts of Interest
9. Collaborative Research

You must follow these steps for UF to document and verify your RCR Training completion:

1. Go to [www.myUFL.edu](http://www.myUFL.edu) and login using your GatorLink username and password.
2. Click Main Menu > My Self Service > Training and Dev – CITI only > Click CITI Training.
3. You have now entered CITI. A CITI profile consisting of your name, email, and affiliation with UF has automatically been completed for you.
4. You are asked to “Add a course or update your learner groups for University of Florida”.
5. Select the appropriate RCR Training course for your area of research (Biomedical, Social and Behavioral, Physical Science, Humanities, Engineers).

6. To add the course to your “My Courses” click the “CONTINUE” button.
7. To begin your RCR Training, Click the “Enter” hyperlink.
8. You may complete the RCR Training in one or multiple login sessions. If you will complete the training in multiple sessions, always login to CITI through myUFL and navigate to CITI RCR Training.

### *Literature Review (Graduate Sections Only)*

Students enrolled in a graduate section of the course will be expected to submit a 2,000-word literature review on a topic related to their scientific research project. This review is due on the last day of class.

### *Class Participation*

Your participation in each class session will be assessed, and this will be factored in the assignment of points for each session.

### *Point Distribution*

<b>Assignment</b>	<b>Points</b>
CITI RCR Training Completion (no points assigned, but required for passing the class)	0
Interview Presentations	5
Stress Management Activity	5
Three-Minute Research Presentation	10
Research Symposium Draft Abstract Submission and Feedback	10
Time Management Activity	10
Financial Management Activity	10
3MT Competition Attendance and Report	10
Research Poster Draft Submission, Presentation, and Feedback	10
Undergrad Research Symposium Participation	10
Individual Development Plan Activity	10
Responsible Conduct of Research Activity	10
<b>Total</b>	<b>100</b>

### *Grade Distribution*

<b>Point Range (%)</b>	<b>Letter Grade</b>	<b>Point Range (%)</b>	<b>Letter Grade</b>
93.33 or higher	A	73.33-76.65	C
90-93.32	A-	70-73.32	C-
86.66-89.99	B+	66.66-69.99	D+
83.33-86.65	B	63.33-66.65	D
80-83.32	B-	60-63.32	D-
76.66-79.99	C+	< 60	E

- More information on grades and grading policies is here: <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

## Calendar

Wk	Date	Activity
1	8/24	Introductions, and ABRCMS abstract feedback
2	8/31	Interview presentations, discussion of the 3MT presentation format
3*	9/7	Stress Management 101 – Jennifer Kennymore, MPH, CHES, UF GatorWell
4*	9/14	Three-minute research presentations
5*	9/21	Manage Your Time, Maximize Your Potential – <i>Taylor Witkowski, UF GatorWell</i>
6	9/28	Undergraduate Research Symposium abstract submission and feedback
7	10/5	Designing and presenting research posters
8	10/12	Financial management workshop – Martie Gillen, PhD, MBA, Associate Professor, Dept of Family, Youth and Community Sciences <b>UF 3 MT Prelim Rounds: 10/9 at 2 pm, 10/10 at 10 am, and 10/11 at 2 pm</b>
9	10/19	Poster practice presentations and feedback (URS and ABRCMS)
10	10/23	2018 Fall Undergraduate Research Symposium, presentation and participation <b>10/23, 4-8 pm, Reitz Grand Ballroom</b>
	10/26	No class meeting (attend URS on Thursday)
11	11/2	No class meeting: Homecoming
12*	11/9	Individual Development Plans: Assessing Values and Competencies – Jacqueline Pedota, UF Career Connections Center <b>UF 3MT Final Event: 11/8 at 2 pm</b>
13	11/16	No class meeting: ABRCMS
14	11/23	No class meeting: Thanksgiving
15*	11/30	Responsible Conduct of Research – The Lab

## Class Policies

### Extra Credit

- There will be no opportunities for extra credit.

### Time Commitment

- The UF College of Liberal Arts and Sciences assumes that you will devote a total of 45 hours per credit to each course.

### Class Attendance, Make-Up, and Late Work

- Class attendance is expected and students are expected to arrive on time. Excused absences are consistent with [university policies in the undergraduate catalog](#) and require appropriate documentation. Each *unexcused* absence will result in a 10% reduction of the total possible points in the final grade. Each late arrival will result in a 5% reduction of the total possible points in the final grade.
- If you must miss class, or miss an assignment or exam due to an allowable, scheduled absence (for example, to participate in a sanctioned university function), you must notify the instructor during the first week of classes or immediately after the event is scheduled.

- If you miss a class, an assignment or exam due to an allowable but *unscheduled* and *unpredictable* absence (e.g., illness), you must contact the instructor as soon as possible. In the case of illness, you must provide a signed note from your primary care provider indicating that you were *unable to attend class or complete the assignment* on the day(s) in question.
- Late work will not be accepted unless it is the direct result of an allowable but unscheduled and unpredictable absence, as defined above, at the discretion of the instructor.
- Makeup assignments and exams will be provided for students who miss an assignment or exam as the direct result of an allowable but unscheduled and unpredictable absence, as defined above. The composition and structure of the makeup assignment or exam will be at the discretion of the instructor.

### *Using Electronic Devices in Class*

- As a courtesy to your classmates, you are prohibited from making video or audio recordings of class discussions or presentations by fellow students.
- You may bring a laptop or tablet computer to class to take notes or access electronic course material, and there is no course policy against using such devices in class for other purposes. However, if the instructor perceives your activities to be a distraction to any other members of the class, you will be warned that you are being disruptive. Multiple disruptions will be grounds for the assignment of a failing grade.

### *Students Requiring Accommodations*

- Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, [www.dso.ufl.edu/drc/](http://www.dso.ufl.edu/drc/)) by providing appropriate documentation. Once registered, students will receive an accommodation letter, which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

### *Course Evaluation*

- Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

### *Class Demeanor*

- Students are expected to arrive to behave in class in a manner that is respectful to the instructor and to fellow students. Opinions held by other students should be respected in discussions. Students who behavior in a manner that is disrespectful or otherwise disruptive will be asked to leave the class. Multiple occurrences will result in the assignment of failing grade.

### *University Honesty Policy*

- UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The Honor Code (<https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are

obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

### *Counseling and Wellness Center*

- Contact information for the Counseling and Wellness Center: <http://www.counseling.ufl.edu/cwc/Default.aspx>, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.