

**Syllabus for PHYS 419 (Section 2)**  
**Research Seminar – Fall 2020**

**Class Location / Times:** Thursdays, 8 AM, On-Line (Synchronous via ZOOM)

**Instructor Information:** Dr. Mike Larsen

**Phone:** 843-327-2372

**Instructor Email Address:** LarsenML@cofc.edu

**Office Location:** RITA 317

**Pre- or Co-requisite:** PHYS 370 or ASTR 377

**Course Webpage:** [http://larsenml.people.cofc.edu/phys419\\_fall20.html](http://larsenml.people.cofc.edu/phys419_fall20.html)

(Please see course page for full description of course, rationale, and supplementary information).

**Course Texts:** None

**Office Hours:** Mondays 12-1 PM, Tuesdays 8:30-9:30 AM, Wednesdays 8-9 AM, and Fridays 1-2 PM or by appointment. All office hours will be conducted via zoom; please contact me via email, text, or voice call to make further arrangements.

### **Course Description**

This course is intended to prepare the student for Phys 420 and is traditionally taken close to the end of your undergraduate career. The most immediate purpose of the course is to go through the process of writing a proposal for your senior capstone/research project. We will also spend class time talking about other important topics that don't regularly get discussed at other points in the curriculum including (but not necessarily limited to) discussing post-graduation plans, how to go about preparing for life after graduation, learning a bit about research ethics, and disseminating scientific results via a variety of different methods.

### **Plan for Course**

This course is listed as an on-line only course with synchronous instruction, which means that all course meetings will be live via zoom at the normally scheduled class time.

### **Grading**

Grades will be based on timely completion of assorted homework assignments (30%), presentations of various types (20%), completion of your capstone proposal and associated drafts (40%), and completion of the departmental major field test assessment (10%).

**Grading Scale** The grading scale applied to this class will be:

A	91-100	B-	80-81	D+	69-70
A-	90-91	C+	79-80	D	61-69
B+	89-90	C	71-79	D-	60-61
B	81-89	C-	70-71	F	<60

**Attendance Policy**

It is expected that you will attend class if possible. I will. You are responsible for any material missed in class, including announcements about homework/test date changes, etc. Since this course doesn't closely follow any text, missing class could be more detrimental for this class than most. If unable to attend class, please view recorded lectures prior to next course meeting.

## Required Objectives and Outcomes Statements

In order to meet assessment requirements, it is necessary to include course objectives and learning outcomes for every course. Here they are for this course.

### **Learning Objectives**

This course endeavors to aid the motivated student in the following tasks:

- Preparing a scientific proposal that adheres to basic scientific writing standards.
- Learning the professional standards associated with doing ethical work in the physical sciences.
- Learning the elements of a professional resume and/or CV.
- Learning about the paths available to students after graduation.
- Learning about the skills and methods appropriate for dissemination of scientific results.

### **Learning Outcomes**

At the end of this course, successful students will be able to:

- Write a brief scientific proposal appropriate for a senior capstone (420/499) project.
- Construct a professional resume and/or CV for themselves.
- Outline the path necessary to accomplish their immediate post-graduation goals.
- Identify whether particular behaviors adhere to scientific ethical standards.

## Required Syllabus Statements

The university requires us to include some standard (so-called “boilerplate”) text into all syllabi. Since you presumably see the same text in all of your classes, I have grouped these statements together.

### **Honor Code and Academic Integrity**

Lying, cheating, attempted cheating, and plagiarism are violations of our Honor Code that, when suspected, are investigated. Each incident will be examined to determine the degree of deception involved.

Incidents where the instructor determines the student’s actions are related more to misunderstanding and confusion will be handled by the instructor. The instructor designs an intervention or assigns a grade reduction to help prevent the student from repeating the error. The response is recorded on a form and signed both by the instructor and the student. It is forwarded to the Office of the Dean of Students and placed in the student’s file.

Cases of suspected academic dishonesty will be reported directly by the instructor and/or others having knowledge of the incident to the Dean of Students. A student found responsible by the Honor Board for academic dishonesty will receive a XXF in the course, indicating failure of the course due to academic dishonesty. This status indicator will appear on the student’s transcript for two years after which the student may petition for the XX to be expunged. The F is permanent.

Students can find the complete Honor Code and all related processes in the *Student Handbook* at <http://studentaffairs.cofc.edu/honor-system/studenthandbook/index.php>

### **Students with Disabilities**

The College will make reasonable accommodations for persons with documented disabilities. Students should apply at the Center for Disability Services/SNAP located on the first floor of the Lightsey Center, Suite 104. Students approved for accommodations are responsible for notifying your professor as soon as possible and subsequently contacting your professor again at least one week before any specific accommodation is needed.

### **Oaks**

OAKS, including Gradebook, will be used for this course throughout the semester to provide the syllabus and class materials and grades for each assignment, which will be regularly posted.

### **Continuity of Learning**

Due to social distancing requirements, this class will include a variety of online and technology enhanced components to reinforce continuity of learning for all enrolled students. Before the drop/add deadline, students should decide whether the course plan on the syllabus matches their own circumstances.

### **Recording of Classes**

Class sessions will be recorded via both voice and video recording. By attending and remaining in this class, the student consents to being recorded. Recorded class sessions are for instructional use only and may not be shared with anyone who is not enrolled in the class.

### **Inclement Weather, Pandemic, or Substantial Interruption of Instruction**

If in-person classes are suspended, faculty will announce to their students a detailed plan for a change in modality to ensure the continuity of learning. All students must have access to a computer equipped with a web camera, microphone, and internet access. Resources are available to provide students with these essential tools.

### **Mental and Physical Wellbeing**

At the college, we take every students' mental and physical wellbeing seriously. If you find yourself experiencing physical illnesses, please reach out to student health services (843-953-5520). And if you find yourself experiencing any mental health challenges (for example, anxiety, depression, stressful life events, sleep deprivation, and/or loneliness/homesickness) please consider contacting either the Counseling Center (professional counselors at <http://counseling.cofc.edu> or 843-953-5640 3rd Robert Scott Small Building) or the Students 4 Support (certified volunteers through texting "4support" to 839863, visit <http://counseling.cofc.edu/cct/index.php>, or meet with them in person 3rd Floor Stern Center). These services are there for you to help you cope with difficulties you may be experiencing and to maintain optimal physical and mental health.

### **Food and Housing Resources**

Many CofC students report experiencing food and housing insecurity. If you are facing challenges in securing food (such as not being able to afford groceries or get sufficient food to eat every day) and housing (such as lacking a safe and stable place to live), please contact the Dean of Students for support (<http://studentaffairs.cofc.edu/about/salt.php>). Also, you can go to <http://studentaffairs.cofc.edu/student-food-housing-insecurity/index.php> to learn about food and housing assistance that is available to you. In addition, there are several resources on and off campus to help. You can visit the Cougar Pantry in the Stern Center (2nd floor), a student-run food pantry that provides dry-goods and hygiene products at no charge to any student in need. Please also consider reaching out to Professor Larsen if you are comfortable in doing so.

### **Fall 2020 General Syllabus Statement**

The College of Charleston is committed to promoting the health and safety of our campus community. To that end, all faculty and students must abide by public health guidelines that include practicing social distancing in the classroom and elsewhere on campus, following signage indicating the entrance, exit, and traffic flow in and around campus buildings, wearing a mask or cloth face covering while in the presence of others, washing or sanitizing hands frequently, sanitizing individual and shared learning and work spaces, and staying home when sick. These practices are mandatory. Students will not be allowed to attend class without an appropriate face covering or when showing symptoms of illness.

Due to social distancing requirements, the number of students allowed in the classroom at one time is significantly reduced. As a result, most in-person courses will include a variety of online and technology enhanced components to ensure continuity of learning for each student throughout the semester. These strategies will vary by course section and students are advised to read each syllabus carefully. Faculty have planned each course to enable all students, whether they are in the classroom or working remotely, to be fully engaged in the learning experience. Before the drop/add deadline, students should decide whether the course plan on the syllabus matches their own circumstance. All faculty will use OAKS to facilitate student access to the course syllabus, course materials, and the gradebook. The College of Charleston's standard grading system is in effect.

There is a possibility that the semester will be disrupted by weather or the pandemic. Every course syllabus will include a plan for a change in modality to ensure the continuity of learning in the event in-person classes must be suspended. Regardless of the method of instruction, all courses will move online for one week after Thanksgiving. Final exams will be administered online. Therefore, all students must have access to a computer equipped with a web camera, microphone, and Internet access. Resources are available to provide students with these essential tools.

The College anticipates that some members of the community will fall ill or test positive for the coronavirus, and then be required to quarantine thereby missing class, assignments, and assessments. Faculty are expected to provide reasonable accommodations as determined by the content, level, and expectations of their courses for students who become ill or indicate a need to isolate themselves. To the extent possible, arrangements will be made for students with COVID-19 related absences to continue in the class. Faculty are encouraged to make explicit in their syllabus what sorts of accommodations students can expect with respect to missed course meetings, assignments, and assessments. However, students should be aware that extended absences for any reason cannot be accommodated in every course. Missed assignments and assessments may result in poor or failing grades. If a student is absent from class for an extended period, a withdrawal (W) before the deadline should be strongly considered. In all cases, assigning course grades is the responsibility of the instructor consistent with the grading policy published on the syllabus.