

ENGR 191-002: Introduction to Research

Instructors: Susan Burkett; sburkett@eng.ua.edu; 8-4378; John Lusth; lusth@cs.ua.edu; 8-1618

Office Hours: Contact instructors via email for appointments.

Location: SERC 1056; Thursdays 4:00-4:50 PM

Credits 1 credit

Pre-requisite: None

Required Text: None

Course Description: This course will introduce STEM (Science, Technology, Engineering, and Mathematics) students to academic research and prepare students to engage in undergraduate research at the University of Alabama and elsewhere.

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

- Understand academic research and how science is conducted in an academic setting
- Learn about research in a wide variety of STEM disciplines
- Highlight the basic expectations and requirements of the undergraduate researcher when conducting research with a faculty mentor in a professional environment
- Gain a solid foundation in research ethics, both conceptually and in an applied manner
- Find information sources relevant to your discipline/topic of research interest; determine the differences between primary and secondary literature
- Have the skills to write scientifically (e.g., literature reviews, research proposals) and communicate scientific research
- Have knowledge of the opportunities available to undergraduate researchers throughout their career at UA

Attendance: Attendance is worth 10 percentage points and will be monitored randomly. If a student misses class on a day when attendance is taken, 2 percentage points will be deducted. If a student is late and comes to class after attendance is taken, 1 percentage point will be deducted. If a student will miss class for various reasons and sends an email to the instructor before the beginning of class, no attendance deduction will be made. No attendance deduction will be made for a student with a written authorized university excuse presented after a missed class. All students are responsible for any work missed due to absence.

Assignments: Assignments and due dates will be posted or assignments will be performed in class. Students are required to submit assignments using Blackboard by 11:59 pm on the day they are due. Late assignments will be accepted up to 48 hours after the due date with no penalty. No assignments will be accepted after the 48 hour grace period without an authorized university excuse.

Exams: One exam will be administered over the concepts covered in class. A student will need a written authorized university excuse to take a make-up exam.

Grading:	Attendance:	10%
	Final project:	25%
	Exam:	25%
	Homework and in-class assignments	40%

Overall percentage: 90-100% = **A**, 80-89% = **B**, 70-79% = **C**, 60-69% = **D**, <60% = **F**
(+/- will be used for the upper and lower 2% points for each grade range, respectively).

Academic Dishonesty: All cases of cheating will be handled promptly following the University's and College's *Code of Academic Conduct*.

Disruptive Behavior: Disruptive behavior in the classroom of any kind will not be tolerated. This includes talking or using cell phones while class is in session.

Disability Statement: It is the policy of The University of Alabama to make reasonable accommodations for qualified individuals with disabilities. Please contact the Office of Disability Services at 348-4285 to request disability accommodations. After initial arrangements are made with that office, contact your instructor.