FSE 294 – Fulton Undergraduate Research Experience Fall 2018

Mondays 2 – 2:50PM BYENG 210

Arizona State University
Ira A. Fulton Schools of Engineering
School of Computing, Informatics and Decision Systems Engineering
Fall 2018

Instructor: Ross Maciejewski rmacieje@asu.edu
Office Hours: By appointment
Website: blackboard

Course Description:
FSE-294 has been created to introduce you to concepts in engineering research and to help prepare you for beginning an undergraduate research project. The course is a 15 week long, one-credit course designed to teach students the basics of undergraduate research focused on the Fulton Schools of Engineering including identifying research topics, literature reviews, and proposal writing.

Textbook: None

Course Outcomes:
As a result of taking this class you will:
1. Learn the basics of developing a research proposal
2. Lean how to identify research topics through literature reviews
3. Understand the role of academic integrity in becoming an ethical and responsible researcher
4. Understand the exciting research opportunities available to undergraduates
5. Learn about interesting research topics in your specific field
6. Learn the basics of developing a research proposal
7. Learn about grad school, how to apply, and how to find the right school for you

Grading (Preliminary breakdown to be finalized by start of class):
In-class work 10% (class attendance will count heavily towards this)
Assignments 65% - There will be multiple assignments in class, not all assignments will be weighted equally, but their weight will be defined in the assignment criteria.
Presentation 25% - There will be several in-class presentations weighted equally

NO LATE ASSIGNMENTS WILL BE ACCEPTED! NO EXTENSIONS WILL BE GIVEN!

Student Code of Conduct:
http://students.asu.edu/srr/students
https://azregents.asu.edu/rrc/Policy%20Manual/5-308-Student%20Code%20of%20Conduct.pdf
Weekly Schedule: Due to faculty schedules, guest lectures may shift, but this gives you the general content of what will be covered.

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<thead>
<tr>
<th>Week</th>
<th>Topic</th>
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<tr>
<td>Aug. 20</td>
<td>Course Introduction/Goals and Benefits of Undergraduate Research</td>
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<tr>
<td>Aug. 27</td>
<td>Overview of Engineering Research and Contacting Professors</td>
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<td>Sept. 3</td>
<td>Labor Day — NO CLASS</td>
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<td>Sept. 10</td>
<td>Student Presentations — Intro to Faculty Research (P1 – 10/25)</td>
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<td>Sept. 17</td>
<td>Guest Lecture – Topic TBD based on class interest</td>
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<td>Sept. 24</td>
<td>Guest Lecture – Topic TBD based on class interest</td>
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<td>Oct. 1</td>
<td>An Introduction to the Fulton Undergraduate Research Initiative (A3—Prof letter 10/65)</td>
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<td>Oct. 8</td>
<td>Fall Break — NO CLASS</td>
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<td>Oct. 15</td>
<td>Guest Lecture – Topic TBD based on class interest</td>
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<td>Oct. 22</td>
<td>How to do a literature review (A4—Personal Statement V1—5/65)</td>
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<td>Oct. 29</td>
<td>Guest Lecture – TBD based on class interest</td>
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<td>Nov. 5</td>
<td>Guest Lecture – Topic TBD based on class interest</td>
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<td>Nov. 12</td>
<td>What exactly is graduate school? (A7—Lit review final—10/65)</td>
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<td>Nov. 19</td>
<td>Student Presentations (P2—15/25)</td>
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<tr>
<td>Nov. 27</td>
<td>Student Presentations (A8—Research prof at another school—5/65)</td>
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Student well-being:

ASU and the Fulton Schools are committed to our students’ academic success and well-being. As the semester progresses, many students start to show signs of academic, financial, or personal stress. Please familiarize yourself with the tutoring, career, health and wellness and financial resources available [http://engineering.asu.edu/resources/](http://engineering.asu.edu/resources/) and don’t hesitate to reach out to myself or other faculty if you need help.

Course Policies:

**Laptops in class:** Students are not permitted to have laptops open in the classroom. Cell phones are not allowed out in class. Failure to follow these policies will result in penalties to attendance points.

**Incomplete Grades:** A course grade of “Incomplete” will be given only in extreme situations because the sad story is that most students who request incompletes never finish the course. Please visit [http://www.asu.edu/registrar/forms/regforms.html](http://www.asu.edu/registrar/forms/regforms.html) under the Academic Record Forms section for the Incomplete Grade Request form, which is available in both Word and as a PDF. The form must be completed by the student, signed by the student, the instructor, and the department chair or school director. The completed form must be filed with Janice Frangella (Bell Hall, Room J7) before the grade of “I” is given.

**Student Conduct:** Students are required to adhere to the behavior standards listed in Arizona Board of Regents Policy Manual Chapter V – Campus and Student Affairs Part C: Code of Conduct ([http://www.abor.asu.edu/1_the_regents/policymanual/chap5/](http://www.abor.asu.edu/1_the_regents/policymanual/chap5/)) and ACD 125: Computer, Internet, and Electronic Communications ([http://www.asu.edu/aad/manuals/acd/acd125.html](http://www.asu.edu/aad/manuals/acd/acd125.html)). Students are entitled to receive instruction free from interference by other members of the class. If a student is disruptive, an instructor may ask the student to stop the disruptive behavior and warn the student that such disruptive behavior can result in withdrawal from the course. An instructor may withdraw a student from a course when the student's behavior disrupts the educational process under USI 201-10 ([http://www.asu.edu/aad/manuals/usui/usui201-10.html](http://www.asu.edu/aad/manuals/usui/usui201-10.html)).

**Accommodations for Disabilities:** The Americans with Disabilities Act (ADA) is a federal antidiscrimination statute that provides comprehensive civil rights protection for persons with disabilities. One element of this legislation requires that all qualified students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation please contact the
Academic Integrity

The highest standards of academic integrity are expected of all students. The failure of any student to meet these standards may result in suspension or expulsion from the university. Violations of academic integrity include, but are not limited to, cheating, fabrication, tampering and plagiarism. Signing an attendance sheet for another student is also considered a violation of academic integrity.

See: ASU Student Academic Integrity Policy  [http://www.asu.edu/studentaffairs/studentlife/judicial/academic_integrity.htm](http://www.asu.edu/studentaffairs/studentlife/judicial/academic_integrity.htm)


An instructor, academic supervisor, or committee responsible for evaluation may impose any of the following sanctions for academic dishonesty:

- Reduced or failing grade for assignment,
- Reduced or failing grade for course, or
- Reduced, failing grade, or no credit for other academic evaluation (e.g., clinical training, comprehensive exam, thesis, dissertation).
- Within 10 days after an instructor-imposed sanction is assigned, the student may appeal the sanction to the Dean or Director.

Additionally, an instructor, academic supervisor, or committee responsible for academic evaluation may recommend other or additional sanctions to the Dean or Director, including assignment of the grade of XE and withdrawal of credit for a previously accepted course or requirement.

Emergency and Safety Procedures

When a fire alarm sounds, take what you can easily carry (cell phone, backpack, purse, etc) and exit the building. Stay with the instructor who will provide instructions on where to remain standing once outside of the building. To promote classroom safety, please notify the instructor of any suspicious behavior or statements regarding any ASU class or event at any time during the semester. Become familiar with all of the exit routes in the classroom and building and in the event of a classroom emergency, evaluate the situation for your safest and quickest escape from harm’s way. Once out of danger call 911. The ASU Police non-emergency number is: 480.965.3456