EGR 476 – Special Problems

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Office: S 322C  
Office Hours: MW 1PM – 2PM; M 2PM – 3PM; R 10:30AM – 12PM  
Department: Department of Physics, Engineering, and Astronomy  
Class meeting time and place: None

Course Description:
One to four semester hours. Experimental or theoretical independent study in research. Not available for graduate credit. Prerequisites: 12 semester hours of engineering or physics.

Text and Materials:
None

Course Calendar:

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Aug 28</td>
<td>Project Meeting</td>
</tr>
<tr>
<td>2</td>
<td>Sep 4</td>
<td>Project Meeting</td>
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<tr>
<td>3</td>
<td>Sep 11</td>
<td>Project Meeting</td>
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<tr>
<td>4</td>
<td>Sep 18</td>
<td>Project Meeting</td>
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<tr>
<td>5</td>
<td>Sep 25</td>
<td>Project Meeting</td>
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<tr>
<td>6</td>
<td>Oct 2</td>
<td>Project Meeting</td>
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<tr>
<td>7</td>
<td>Oct 9</td>
<td>Project Meeting</td>
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<tr>
<td>8</td>
<td>Oct 16</td>
<td>Present Project Progress</td>
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<tr>
<td>9</td>
<td>Oct 23</td>
<td>Project Meeting</td>
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<tr>
<td>10</td>
<td>Oct 30</td>
<td>Project Meeting</td>
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<tr>
<td>11</td>
<td>Nov 6</td>
<td>Project Meeting</td>
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<tr>
<td>12</td>
<td>Nov 13</td>
<td>Project Meeting</td>
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<tr>
<td>13</td>
<td>Nov 20</td>
<td>Thanksgiving</td>
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<tr>
<td>14</td>
<td>Nov 27</td>
<td>Project Meeting</td>
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<tr>
<td>15</td>
<td>Dec 4</td>
<td>Project Meeting</td>
</tr>
<tr>
<td>16</td>
<td>Dec 11</td>
<td>Present Final Project</td>
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</tbody>
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Grading Policy:

| Progress Presentation | 40% |
| Final Project Presentation | 60% |

Attendance Policy:
There will be project meetings once a week. If the student misses more than two meeting he will be given a grade of “F.”
Program Learning Outcomes (PLO)
Graduates of the program will:
(a) an ability to apply knowledge of mathematics, science and engineering
(b) an ability to design and conduct experiments, as well as to analyze and interpret data
(c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability
(d) an ability to function on multidisciplinary teams
(e) an ability to identify, formulate, and solve engineering problems
(f) an understanding of professional and ethical responsibility
(g) an ability to communicate effectively
(h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental and societal context
(i) a recognition of the need for, and an ability to engage in life-long learning
(j) a knowledge of contemporary issues
(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

Student Learning Outcomes (SLO)
By the end of the course, a successful student will be able to:
1. Design a Muscle twister system
2. Build muscle fiber consistently
3. Investigate the possibility of different materials to build these muscle fibers
4. Test the different alternatives, and provide an analysis of their efficiency
5. Present a functioning final project
6. Present an effective written report
7. Prepare a poster presentation with the results

General Education Core Curriculum Objectives/Outcomes (EEO)
There are no specific general education core curriculum objectives in this course. This course is not a general education core curriculum course.

Academic Integrity (A-9.1)
Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

Definition of Academic Dishonesty
Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one's own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one's paper without giving the author due credit.
Withheld Grades Semester Grades Policy (A-54)

Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average.

Students with Disabilities

To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices/.