A. Academic Division: Business, Industry and Technology
B. Discipline: Mechanical Engineering Technology
C. Course Number and Title: MECT2905 Design Project I
D. Course Coordinator: Mike Beebe
   Assistant Dean: Daniel Wagner

Instructor Information:
- Name: Click here to enter text.
- Office Location: Click here to enter text.
- Office Hours: Click or tap here to enter text.
- Phone Number: Click here to enter text.
- E-Mail Address: Click here to enter text.

E. Credit Hours: 1
   Lecture: 0 hours
   Laboratory: 3 hours

F. Prerequisites: MECT1750, MECT2440c

G. Syllabus Effective Date: Fall, 2019

H. Textbook(s) Title: None

I. Workbook(s) and/or Lab Manual: None; Class handouts will be distributed

J. Course Description: Students will participate in a mechanical design project to be completed following the procedures presented.

K. College-Wide Learning Outcomes:

<table>
<thead>
<tr>
<th>College-Wide Learning Outcome</th>
<th>Assessments - - How it is met &amp; When it is met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication – Written</td>
<td></td>
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<tr>
<td>Communication – Speech</td>
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<tr>
<td>Intercultural Knowledge and Competence</td>
<td></td>
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<tr>
<td>Critical Thinking</td>
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<tr>
<td>Information Literacy</td>
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<tr>
<td>Quantitative Literacy</td>
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</tbody>
</table>

L. Course Outcomes and Assessment Methods:
Upon successful completion of this course, the student shall:

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>Assessments – How it is met &amp; When it is met</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Utilize engineering software to develop a project design.</td>
<td>Week 3 Project Proposal, Week 8 Progress Report, Final Report</td>
</tr>
<tr>
<td>2. Utilize engineering manuals to compile relevant data and formulae.</td>
<td>Week 3 Project Proposal, Week 8 Progress Report, Final Report</td>
</tr>
<tr>
<td>3. Collaborate with team members in problem solving and design.</td>
<td>Week 3 Project Proposal, Week 8 Progress Report, Final Report</td>
</tr>
<tr>
<td>4. Effectively communicate with team members, business partners, and during final presentation.</td>
<td>Final Report and Presentation, Week 15</td>
</tr>
</tbody>
</table>

M. **Topical Timeline (Subject to Change):**

1. Assignment and definition of problem
2. Engineering process and ethics
3. Preliminary investigations
4. Formulation of solution
5. Fabrication and testing
6. Reporting of results

N. **Course Assignments:**

Graded assignments:
1. Project Proposal
2. Progress Report
3. Final Report
4. Oral Presentation

O. **Recommended Grading Scale:**

<table>
<thead>
<tr>
<th>NUMERIC</th>
<th>GRADE</th>
<th>POINTS</th>
<th>DEFINITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>93–100</td>
<td>A</td>
<td>4.00</td>
<td>Superior</td>
</tr>
<tr>
<td>90–92</td>
<td>A-</td>
<td>3.67</td>
<td>Superior</td>
</tr>
<tr>
<td>87–89</td>
<td>B+</td>
<td>3.33</td>
<td>Above Average</td>
</tr>
<tr>
<td>83–86</td>
<td>B</td>
<td>3.00</td>
<td>Above Average</td>
</tr>
<tr>
<td>80–82</td>
<td>B-</td>
<td>2.67</td>
<td>Above Average</td>
</tr>
<tr>
<td>77–79</td>
<td>C+</td>
<td>2.33</td>
<td>Average</td>
</tr>
<tr>
<td>73–76</td>
<td>C</td>
<td>2.00</td>
<td>Average</td>
</tr>
<tr>
<td>70–72</td>
<td>C-</td>
<td>1.67</td>
<td>Below Average</td>
</tr>
<tr>
<td>67–69</td>
<td>D+</td>
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<td>Below Average</td>
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<tr>
<td>63–66</td>
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<tr>
<td>60–62</td>
<td>D-</td>
<td>0.67</td>
<td>Poor</td>
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<tr>
<td>00–59</td>
<td>F</td>
<td>0.00</td>
<td>Failure</td>
</tr>
</tbody>
</table>

P. **Grading and Testing Guidelines:**

Click here to enter text.

Q. **Examination Policy:**

Click here to enter text.
R.  **Class Attendance and Homework Make-Up Policy:**

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S.  **Classroom Expectations:**

Click here to enter text.

T.  **College Procedures/Policies:**

Important information regarding College Procedures and Policies can be found on the [syllabus supplement](https://sharept.ncstatecollege.edu/committees/1/curriculum/SiteAssets/SitePages/Home/SYLLABUS%20SUPPLEMENT.pdf) located at https://sharept.ncstatecollege.edu/committees/1/curriculum/SiteAssets/SitePages/Home/SYLLABUS%20SUPPLEMENT.pdf