COURSE OUTLINE

CONS 477 – Capstone Project

Prepared By:  Adrienne C. Rygel, Ph.D.
A. **TITLE:** Capstone Project

B. **COURSE NUMBER:** CONS 477

C. **CREDIT HOURS:** 3

D. **WRITING INTENSIVE COURSE:** Yes

E. **COURSE LENGTH:** 15 Weeks

F. **SEMESTER(S) OFFERED:** Spring

G. **HOURS OF LECTURE, LABORATORY, RECITATION, TUTORIAL, ACTIVITY:**
   3 hours per week

H. **CATALOGUE DESCRIPTION:**
   This course provides a learning experience that allows a student to propose, design, and implement a project. This could be a study of a problem and solution of specific equipment, new project design, improvement of an existing product, and many others. All projects must be approved by course faculty.

I. **PRE-REQUISITES:**
   Completion of seven semester coursework or permission of the program director.

J. **GOALS (STUDENT LEARNING OUTCOMES):**
   By the end of this course, the student will be able to:

<table>
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<tr>
<th>Course Objective</th>
<th>Institutional SLO</th>
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<tbody>
<tr>
<td>1. Perform basic research</td>
<td>1. Communication</td>
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<td>2. Critical Thinking</td>
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<td>3. Professional Competence</td>
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<td>2. Propose a standard project</td>
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<td>2. Critical Thinking</td>
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<td>3. Professional Competence</td>
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<td>3. Demonstrate his or her ability to project design and implementation</td>
<td>2. Critical Thinking</td>
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<td>3. Professional Competence</td>
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<td>4. Identify and propose a solution to a specific engineering technology problem</td>
<td>2. Critical Thinking</td>
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<td>3. Professional Competence</td>
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<td>5. Prepare a standard project report</td>
<td>1. Communication</td>
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<td>2. Critical Thinking</td>
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<td>3. Professional Competence</td>
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<td>6. Demonstrate classroom presentation skills</td>
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<td>3. Professional Competence</td>
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<td>4. Inter/ Intrapersonal Skills</td>
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K. **TEXTS:**
   N/A

L. **REFERENCES:**
   Project Specific

M. **EQUIPMENT:**
   CEET laboratory is used. Students are responsible for materials or components that may be needed to complete an approved project.

N. **GRADING METHOD:**
   A-F

O. **MEASUREMENT CRITERIA/METHODS:**
   Project level of difficulty, final report, and presentation skills

P. **DETAILED COURSE OUTLINE:**
   I. Project Proposal
      A. Team or individual
      B. Must meet a standard established by faculty
      C. Must be submitted within the first two weeks of classes
      D. One week extra time given to rejected proposal for resubmission
   II. Project Update
      A. Individual or team project updates every month
   III. Project Report
      A. Must follow standard as outlined in course syllabus
      B. Must include design, data, and diagrams
      C. Solution of the problem
   IV. Presentation
      A. Individual/group project PowerPoint presentation
      B. Public speaking/dress code
      C. Project demonstration
      D. Q&A from students, faculty, and staff