



**BAKER COLLEGE  
STUDENT LEARNING OUTCOMES**

**MATT 2990 Capstone Project  
6 Semester Hours**

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**Student Learning Outcomes & Enabling Objectives**

1. Assess situations and conditions that may present actual or potential damage to personnel, equipment and/or property.
    - a. Manage any unsafe conditions or circumstances before proceeding.
      - i. Report any unsafe conditions or circumstances.
      - ii. Resolve any unsafe conditions or circumstances.
  
  2. Design schematics that address specific applications.
    - a. Draw Electrical schematics
    - b. Draw Hydraulic schematics
    - c. Draw working blue prints
  
  3. Fabricate the designated project using learned skills from the Mechatronics program
    - a. Demonstrate welding techniques
    - b. Demonstrate machining techniques
    - c. Demonstrate electrical wiring techniques
    - d. Demonstrate hydraulic and pneumatic piping techniques
    - e. Demonstrate programmable logic control techniques
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These SLOs are not approved for experiential credit.

**Effective: Fall 2017**