



BAKER COLLEGE
STUDENT LEARNING OUTCOMES
MATT2950 Intermediate Mechatronics Work
Experience
1 Semester Credit Hours

Student Learning Outcomes and Enabling Objectives

1. Explore the organizational structure of a company
 - a. Learn about department roles and responsibilities
 - b. Examine employee dynamics, structure and function
 - c. Gain insight into training needs and opportunities
 - d. Explore community partnerships and opportunities
2. Examine the work environment and team associated atmosphere
 - a. Learn about team-building and growth opportunities
 - b. Gain knowledge about training and development opportunities
 - c. Explore the diversity within the organization and its different teams
3. Evaluate improvement measures for success within manufacturing
 - a. Gain insight in to the data and reporting functions for quality and control
 - b. Explore new technologies beneficial to the work environment
 - c. Learn about Lean Six Sigma and efficiency in manufacturing
 - d. Consider partnerships and collaboration efforts that benefit manufacturing

Big Ideas and Essential Questions

Big Ideas

- Knowledge of the broad field of manufacturing
- Examine the work environment for proficiency and productivity
- Infuse course base knowledge with real life work experience
- Utilize the resources and tools available for appropriate application of skills

Essential Questions

1. Who leads and creates organizational structure?
2. What technologies are emerging in the field?
3. When does the work environment become inclusive and productive?
4. Where can concepts like Lean Six Sigma come into use within the manufacturing environment?

5. How does data impact workflow, quality and productivity?

These SLOs are not approved for experiential credit.

Effective: Fall 2022