



# BAKER COLLEGE

## STUDENT LEARNING OUTCOMES

CS4910A Senior Project  
3 Semester Credit Hours

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### Student Learning Outcomes and Enabling Objectives

1. Apply project principles to programming project.
  - a. Identify potential ideas for a project.
  - b. Choose viability of potential ideas for a project.
  - c. Initiate a project.
  - d. Identify project requirements or goals.
  - e. Build gradual improvements to the project.
2. Implement formal documentation for a programming project.
  - a. Identify formal documentation standards.
  - b. Translate requirements into formal documentation.
  - c. Experiment to ensure documentation represents the requirements or goals.
3. Implement computer science principles to demonstrate mastery of computer science.
  - a. Complete Major Field Test activities.
  - b. Complete project testing.
  - c. Employ appropriate technical design on a project.
  - d. Develop front-end interface for project.
  - e. Develop back-end logic for project.
  - f. Employ appropriate algorithms and data structures.
4. Create artifacts supporting programming project.
  - a. Describe project results to stakeholders.
  - b. Report the ongoing status of project.
  - c. Report the final result of project.
  - d. Specify directions to ensure the project can be used correctly.
  - e. Specify directions to ensure the project can be maintained correctly.

### Big Ideas and Essential Questions

## **Big Ideas**

- Starting a project
- Project Execution
- Closing a Project

## **Essential Questions**

1. How does an idea mature into a programming project?
  2. What role does design play in starting a programming project?
  3. What are important documentation artifacts of a programming project?
  4. What are the general stages of a programming project?
  5. How is a programming project closed and delivered?
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These SLOs are not approved for experiential credit.

**Effective: Fall 2022**