



## Student Information

Student Name		Email	
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- I agree to commit to **275 or more hours of service** towards the Capstone Project outlined below.
- I agree to complete and submit **Weekly Status Updates** up to and including the end of project duration.
- I will work toward the established **Learning Objectives** as outlined in this contract.
- I will present and/or demonstrate my project during a **Capstone Showcase** event.
- I will keep the Internship Coordinator informed of any changes in my status as it relates to this program or Project.
- I hereby release the Seattle District of Community Colleges, its officers, employees, and agents from and against all claims or damages arising out of or connected to my Capstone Project and participation therein.

Project Name	
Brief Project Description	

Student Signature		Date	
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## Program Learning Outcomes

The core education requirements of the BAS degree in Application Development are designed to fulfill a set of desired learning outcomes for the education of undergraduates in the United States. These outcomes include:

1. Identify and analyze user requirements using industry-recognized tools and strategies to interview stakeholders, and to prioritize and document requirements.
2. Compare and assess different approaches to software development lifecycle and apply effective strategies to manage the process of developing, designing, testing, and delivering a software application.
3. Develop and document application functional design meeting the project objectives and constraints, including supporting justification and cost-benefit analysis.
4. Develop software components meeting the design specifications, and plan and execute integration of various component systems and acceptance testing, employing appropriate quality assurance standards and procedures.
5. Collaborate effectively with a wide range of professionals, in person and virtually, using tools and strategies that support cooperative software development practices.
6. Present and effectively communicate complex technical concepts and constraints to a wide range of technical and non-technical stakeholders.
7. Research trends in software development and acquire and integrate new skills and knowledge to keep abreast of changes within the software development profession.
8. Manage software development project activities and deliverables in a timely and efficient manner.
9. By the end of the program graduates will have developed a portfolio of industry-based software development projects, documenting process, role in the development team, and outcomes.

## Learning Objectives

Learning objectives are a set of statements that clearly describe a result to be accomplished during the student's capstone project experience. These should be tied directly to the Program Learning Outcomes. The learning objectives that you outline should be **specific**, **reasonable**, **achievable**, and **measurable** goals. Types and examples:

- **Career-Oriented Objectives:** These relate to your *career goals*.
  - **Example:** "I would like to learn about how large-scale software companies set up stage and production deployment pipelines to gain practical release engineering experience."
- **Skills Acquisition Objectives:** These relate to developing *new* on-the-job skills or learning new tasks or ideas.
  - **Example:** "I have never used JavaScript frameworks for server development before. My goal is to create a REST API on a hosted server using the Node.js JavaScript framework."
- **Skills Application/Development Objectives:** These relate to improving or developing your *current* skills.
  - **Example:** "I have current experience with PHP front-end web forms. My goal is to learn an MVC framework which can be used to create single-page web applications that enable dynamic user interactions with minimal network traffic."
- **Human Relations Objectives:** These relate to improving communication and interpersonal skills which can create a more positive environment.
  - **Example:** "I will improve my ability to work on a team in a large software development organization, including interfacing with other groups to complete projects."

## **Capstone Objectives**

Work with the Internship Coordinator to come up with three learning objectives. These objectives should be relevant to your internship position and help you develop your professional skills.

### **Example Objective Statement**

- **Objective:** “I would like to learn how to deploy web applications in an Amazon Web Services environment.”
- **Actions:** “(1) I will get authorized access to AWS tools and the current web application deployment scripts; and (2) I will create new Cloud Formation templates to deploy the web application.”
- **Result:** “I will know I completed this objective when I can walk another engineer through all steps of the process and when code update to the main branch of the repository result in updated stage and production deploys.”
- **Importance:** “This objective is important to me because I need to be able to not only build, but deploy the web applications built, getting them live and reliably set in front of the customer.”
- **Program Learning Outcomes:** “Upon meeting my goal I will have achieved program learning outcomes #1, #5, #6, and #9.

**Objective #1**

**What is your objective/goal?** What would you like to know or be able to do by the end of your project?

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**What will you do to accomplish this goal?** *(Provide 2 specific actions)*

1.
2.

**How will you know you've accomplished your goal?**

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**What program learning outcome(s) does the proposed objective meet?** *(Refer to the "Program Learning Outcomes" section on page 2)*

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**Objective #2**

**What is your objective/goal?** What would you like to know or be able to do by the end of your project?

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**What will you do to accomplish this goal?** *(Provide 2 specific actions)*

1.
2.

**How will you know you've accomplished your goal?**

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**What program learning outcome(s) does the proposed objective meet?** *(Refer to the "Program Learning Outcomes" section on page 2)*

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**Objective #3**

**What is your objective/goal?** What would you like to know or be able to do by the end of your project?

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**What will you do to accomplish this goal?** *(Provide 2 specific actions)*

1.
2.

**How will you know you've accomplished your goal?**

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**What program learning outcome(s) does the proposed objective meet?** *(Refer to the "Program Learning Outcomes" section on page 2)*

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