

Cheryl A. Swanier

Mentor 1: Anas AlSobeh - Utah Valley University

Home Institution: Voorhees University

Target Course: Intro to Computing

Target Course Number: CMP 224

Anticipated Enrollment: 12 Fall & Spring Semesters

Science Gateways Resource Needs/Questions:

- *Need/Question 1: Which Gateway Resources can be used to assist students with AI?*

Project Goals:

- **Goal 1:** Increase access to computing resources with Jetstream2 virtual computing environments
- **Goal 2:** Integrate generative AI into programming instruction for code generation, debugging, explanation, and problem solving.
- **Goal 3:** Develop authentic computational projects using Jetstream2 and AI that mirror real-world computing applications.

Science Gateway Goal: Integrate Science Gateway resources, including Jetstream2 cloud computing infrastructure and AI-enabled tools, into an introductory programming course to provide students with accessible, authentic, and scalable computing experiences that strengthen computational thinking, programming skills, and AI literacy.