

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: BLD 200

Credits: 3

Course Title: Sustainable Construction

Course Description: Teaches students the specialized construction management best practices that must be utilized when managing a sustainable project. Includes industry standards for green construction as identified by popular building rating systems.

Lecture 3 hours per week.

General Course Purpose: The primary purpose of this course will be to indoctrinate students in the fundamentals of building design and technology, which incorporate the principles of sustainable construction, also known as “green” technology. The course serves as a requirement for the Architectural and Engineering Technology AAS, specializations in Contemporary Technology for Design and Geospatial and Environmental Engineering Technologies.

Course Prerequisites and Co-requisites:

None

Course Objectives:

Upon completing the course, the student will be able to:

- a. Evaluate the potential of the building site to mitigate environmental impact of the structure;
- b. Identify the concept and means for achieving a building design that results in a “low carbon” footprint;
- c. Incorporate recyclable materials into a building design; and
- d. Assess the economic impact/implications of green construction on a building project.

Major Topics to Be Included:

- a. “Passive design technology”
- b. “Renewable” building materials
- c. “Green” energy resources
- d. “LEED” certifications for sustainable designs

Effective Date of Course Content Summary: October 16, 2015