

**NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY  
BLD 200 – SUSTAINABLE CONSTRUCTION (2 CR)**

**Course Description**

Teaches students the specialized construction management best practices that must be utilized when managing a sustainable project. Course will include industry standards for green construction as identified by popular building rating systems. Lecture 2 hours per week.

**General Course Purpose**

To prepare students for the special role those construction professionals must play in constructing ecologically sustainable projects.

**Course Prerequisites**

BLD 101 plus BLD 165 or Instructor's Permission.

**Course Objectives**

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

- Recognize and articulate the importance of the role of the construction management professional in the construction of a sustainable project.
- Appreciate and communicate the importance of a collaborative team effort between owner, developers, architects, engineers, constructors, and consultants and identify the role that each member of the team performs.
- Compare and contrast green building technologies and innovations.
- Identify the techniques available for minimizing the environmental impacts caused by construction activity. Contrast with the current more commonly practiced techniques. Identify field best practices.
- Identify key construction management related components of building rating systems (LEED, Green Globes and other international systems).
- Ascertain and demonstrate the best way to meet the construction related requirements of the building rating systems.
  - Utilize green building resources and references.
  - Identify building products which are produced, delivered and installed while producing the smallest carbon footprint.
  - Identify recyclable building products and the importance of their embodied energy.
- Forecast and analyze typical cost and schedule impacts encountered while managing sustainable projects
- Demonstrate ethical decision making with regard to sustainable construction practices.
- Develop and present a comprehensive construction management plan for implementation on a project utilizing a building rating system.

**Major Topics to be Included**

- Sustainable project roles and responsibilities
- Review of sustainable principles
- Construction activity impact on the environment
- Building Rating Systems: What are they? Why are they implemented?
- Building Rating Systems: Their relation to the construction management professional
- Building Rating Systems: Field decisions and their impact to the owner
- Potential for cost and schedule impacts
- Case studies of existing facilities

May also include:

- A field trip to a local site