CMGT 340
Construction Management Process

COURSE DESCRIPTION

This course addresses the key concepts, models and practices that support the construction management process across a variety of sectors (private, public, non-profit and specialized). The beginning-to-end process of designing, managing and completing construction projects is increasingly complex and has significant impacts on the social, economic and natural environment. Construction professionals in all sectors need to understand the key components of the construction management process, the integration of these components, and how best to manage this process within contemporary performance conditions. Students will learn about the key components of the construction management system, and using modern technology, map out the key elements of a construction management project.

COURSE LEARNING OBJECTIVES

By the end of the course, students will be able to:

1. Describe the key concepts, models and practices related to the construction management process across a variety of sectors
2. Explain the historical evolution, contemporary state and importance of construction management
3. Identify the key general steps, practices and tools within the construction management process
4. Use a process management technology to map out, audit and revise a construction project management process into a best practice

COURSE EVALUATION

- Quizzes
- Discussion Boards
- Individual Project - Briefing Paper and Presentation
- Application Project – Develop a beginning-to-end process map for a construction project

TOPICS
• Definition and importance of construction management
• History and contemporary state of construction management
• Key components of the construction management process
  o Bid preparation
  o Contract development and related legal issues
  o Project planning
  o Project scheduling
  o Resource and cash flow management
  o Equipment management
  o Human resource management
  o Estimating, cost control and materials management
  o Project completion and hand-off
• Review the ethics of the construction management process and the relationship between construction management and sustainability and a balanced stakeholder perspective on project, organizational and societal assessments of effectiveness