

COMMON COURSE NUMBER:   BCT2710  COURSE TITLE:   Infrastructure Coordination  CREDIT HOURS:           2          

## CONTACT HOURS BREAKDOWN:

Lecture/Discussion           32          Lab                                   Other                                   Contact Hours/Week           2          

**CATALOG COURSE DESCRIPTION:** This course provides the student with an overview of the various agencies related to the construction industry. Special emphasis is on the need for and the manner of coordinating with these agencies. Students will receive exposure to the variety of permits, learn to interface with the agencies in order to coordinate the permit process, and understand how this coordinates with the project.

Prerequisite:Corequisite:**UNIT TITLES:**

1. Department of Transportation
2. Department of Natural Resource Protection
3. South Florida Water Management District
4. City/County
5. BellSouth
6. Water Supply Utility
7. Waste Water Disposal Utility
8. Design Engineer/Surveyor
9. Contractors/Subcontractors
10. Existing Utilities [No Cuts]
11. Fire Protection: Fire Hydrant Locations, Fire Line, Back Flow
12. Parking Lot Lighting
13. Irrigation Suction and Landscape

**I. Course Overview:**

Upon successful completion of this course, the students should be able to describe the various components that are part of the infrastructure of a construction project; have a working knowledge of the outside agencies involved in the construction industry and how to coordinate the permit process with these agencies.

**II. Units:**

**Unit 1. 1. Department of Transportation**

General Outcome:

1.0 The students should be able to demonstrate a proficiency in describing the requirements of the Florida Department of Transportation.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

1.1 Contact the DOT.

1.2 Submit Plans through the DOT.

1.3 Meet with DOT staff and discuss DOT concerns relative to the project.

Unit 2. 2. Department of Natural Resource Protection

General Outcome:

- 2.0 The students should be able to demonstrate a proficiency in describing the requirements, rules and regulations of the Department of Natural Resource Protection.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 2.1 Contact the DNRP.
- 2.2 Submit Plans through the DNRP system.
- 2.3 Meet with staff and discuss comments made by DNRP staff.
- 2.4 Coordinate the DNRP comments with the design engineer.

**Unit 3. 3. South Florida Water Management District**

General Outcome:

- 3.0 The students should be able to demonstrate a proficiency in describing the requirements, rules and regulations of the South Florida Water Management District.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 3.1 Contact the South Florida Water Management District.
- 3.2 Submit Engineering Plans and Drainage calculations through the South Florida Water Management District system.
- 3.3 Meet with staff and discuss comments made by South Florida Water Management District staff.
- 3.4 Meet with and Discuss concerns of the South Florida Water Management District

**Unit 4. 4. City/County**

General Outcome:

4.0 The students should be able to demonstrate a proficiency in describing the requirements, rules and regulations of the City/County Governments.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 4.1 Contact appropriate City/County staff for preliminary meetings.
- 4.2 Submit Engineering Plans to City/County.
- 4.3 Meet with City/County officials to discuss comments.
- 4.4 Coordinate with Design Engineer and Architects comments from City/County agencies.
- 4.5 Meet with City/County officials to discuss and reconcile concerns of project Engineers and Architects.

**Unit 5. 5. BellSouth**

General Outcome:

5.0 The students should be able to demonstrate a proficiency in describing the requirements for BellSouth.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 5.1 Contact appropriate BellSouth officials.
- 5.2 Submit Site Plans to BellSouth.
- 5.3 Coordinate project design with BellSouth.

**Unit 6. 6. Water Supply Utility**

General Outcome:

6.0 The students should be able to demonstrate a proficiency in describing the requirements for the water supply utility.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

6.1 Determine appropriate contact with the Water Supply Utility.

6.2 Submit Site Plans to Water Supply Utility.

6.3 Coordinate project design with Water Supply Utility.

**Unit 7. 7 Waste Water Disposal Utility**

General Outcome:

7.0 The students should be able to demonstrate a proficiency in describing the requirements for the Waste Water Disposal Utility.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

7.1 Determine appropriate contact with the Waste Water disposal system utility.

7.2 Submit Site Plan and engineering plan to Waste Water Disposal Utility.

7.3 Coordinate waste water system plan, recommendations with project architect and engineer.

**Unit 8. 8. Design Engineer/Surveyor**

General Outcome:

8.0 The students should be able to demonstrate a proficiency in describing the requirements of the architect, engineer, and surveyor.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

8.1 Contact the architect, engineer and surveyor to discuss the project.

8.2 Take notes, review and coordinate all requirements with the architect, engineer and surveyor to discuss the project.

**Unit 9. 9 Contractors/Subcontractors**

General Outcome:

9.0 The students should be able to demonstrate a proficiency in describing the requirements of the other utilities: FP&L, BellSouth, CATV, Gas, Fiber Optics with contractors/subcontractors.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

9.1 Contact the various utilities related to the project to determine interconnected requirements.

9.2 Submit site plans to the various utilities.

9.3 Coordinate the needs and requirements of the various utilities to be added to the project plans.

**Unit 10. 10 Existing Utilities [No Cuts]**

General Outcome:

10.0 The students should be able to demonstrate a proficiency in locating existing utilities.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

10.1 Contact "no cuts" to locate existing utilities.

10.2 Coordinate showing existing utilities on the project development plans.

**Unit 11. 11** Fire Protection - Fire Hydrant Locations, Fire Line & Back Flow

General Outcome:

11.0 The students should be able to show a proficiency in fire protection requirements.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

11.1 Coordinate with design engineer and fire marshall.

11.2 Coordinate location of fire hydrants and fire lines.

**Unit 12. 12** Parking Lot Lighting

General Outcome:

12.0 The students should be able to demonstrate a proficiency in parking lot lighting design requirements.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

12.1 Coordinate requirements of site lighting with the design engineer, architect and the city/county.

**Unit 13. 13 Irrigation Suction & Landscape**

General Outcome:

13.0 The students should be able to show a proficiency in landscape irrigation requirements.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

13.1 Meet with landscape architect, design engineer, and architect to coordinate site requirements.