

**RINKER SCHOOL OF CONSTRUCTION MANAGEMENT  
UNIVERSITY OF FLORIDA**

## **CONSTRUCTION DRAWING**

**COURSE NUMBER:** *BCN 1251C*

**NUMBER OF CREDIT HOURS:** *3*

**RINKER HALL ROOM** *140*

<b>SEE ELEARNING FOR CLASS MEETING TIMES BY SECTION</b>
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**INSTRUCTOR:** *Robert Ries*

*332 Rinker Hall  
email through Canvas preferred  
rries@ufl.edu  
352 273 1155*

**OFFICE HOURS:** *See ELEARNING for office hours*

**GRADUATE TEACHING ASSISTANT:** *Mr. Xiaoxun Jian*

*341 Rinker Hall  
xiaoxun@ufl.edu*

**OFFICE HOURS:** *See ELEARNING for office hours*

**ADDITIONAL RESOURCES:**

Architectural Drawing and Light Construction, Philip A. Grau, Edward J. Muller, 8th Edition ISBN-10: 0135132150, ISBN-13: 9780135132159

Architectural Graphics, Francis D.K. Ching

Building Construction Illustrated, Francis D.K. Ching

Architectural Graphic Standards, Ramsey and Sleeper Architectural Graphics, Francis D.K. Ching

Reading Architectural Working Drawings, E L Muller Construction Details for Commercial Buildings, G E Wiggins

Other resources provided on course website

**COURSE DESCRIPTION:** *Provides basic working knowledge of architectural graphics, practice in instrumental drawing and experience in plan reading.*

**PREREQUISITE KNOWLEDGE AND SKILLS:** None

**PURPOSE OF COURSE:** *An effective construction process depends on communication of the owner's and architect's objectives and intent for a project. Construction drawings, and specifications are the documents are the basis for a contractual agreement between an owner and contractor as well as communicate in drawings and words what should be constructed. Construction documents and shop drawings are used throughout the construction process to estimate costs correctly, schedule activities optimally, order acceptable materials, allocate labor efficiently, build accurately, and generally manage construction up to project close out.*

*The course will introduce construction drawings and specifications and the use of drawings and specifications in the construction process. The course will focus on plan reading skills and use of drawings in the construction process from a construction manager's perspective.*

**COURSE OBJECTIVES:** *By the end of this course, students will be able to:*

- 1. Explain the role of construction drawings and specifications in the construction process. [SACS SLO 1]*
- 2. Demonstrate plan reading skills by interpreting and explaining typical construction documents such as scaled plan, elevation, section, detail, structural, mechanical, and electrical drawings and door, window, finish, and equipment schedules. [SACS SLO 1]*
- 3. Utilize software to apply graphical skills to create construction drawings. [SACS SLO 1, ACCE SLO 8]*
- 4. Read and create construction drawings in order to facilitate communication in the construction industry. [SACS SLO 1, ACCE SLO 1]*

## HOW THIS COURSE RELATES TO THE STUDENT LEARNING OUTCOMES IN THE CONSTRUCTION MANAGEMENT PROGRAM:

*This course relates to*

*SACS SLO 1: Apply knowledge of engineering, materials, methods, equipment, and processes to safely construct buildings and structures.*

*and*

*ACCE SLO 1: Create written communications appropriate to the construction discipline.*

*ACCE SLO 8: Apply electronic-based technology to manage the construction process.*

*SACS = Southern Association of Colleges and Schools*

*ACCE = American Council for Construction Education*

*SLO = Student Learning Outcome*

**TEACHING PHILOSOPHY:** *In this course, lecture and lab sessions complement one another. Students will be able to apply and reinforce learning through hands-on assignments with construction documents and communication tools that reinforce the concepts in lectures and provides real-world examples used in the construction industry. Students will demonstrate learning by demonstrating plan reading skills acquired in the course and creating examples of construction documents. Examples and practice in-class and in assignments will assess and guide learning. Questions and discussions that enhance learning for all are strongly encouraged.*

**INSTRUCTIONAL METHODS:** *Lectures will introduce concepts and labs will allow students to apply and demonstrate skills; a final project will assess knowledge and skills acquired in the course.*

## COURSE POLICIES:

**ATTENDANCE POLICY:** *Required at all lectures and labs. Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at:*

*<https://go.ufl.edu/syllabuspolices>*

**MAKE-UP POLICY:** *Missed assignments, quizzes, and exams can be made up with instructor's permission prior to assignment due date or quiz/exam date.*

**ASSIGNMENT POLICY:** *Assignments submitted after the late submission date without instructor's permission will NOT be accepted.*

**COURSE TECHNOLOGY:** *Software will be available through UF Apps. Some software may be available for installation on student computers.*

## UF POLICIES:

**PLEASE SEE THE FOLLOWING FOR ALL UF POLICIES:**

<https://go.ufl.edu/syllabuspolicies>

**COMMUNICATION COURTESY:** All members of the class are expected to follow rules of common courtesy in all email messages, discussions and other communication. Communicating using electronic devices while in class may disturb others and is strongly discouraged.

## GRADING POLICIES:

<i>Attendance</i>	<i>10%</i>
<i>In-class exercises &amp; Homework</i>	<i>35%</i>
<i>Midterm Exam</i>	<i>20%</i>
<i>Final Project</i>	<i>35%</i>
<b>TOTAL</b>	<b>100%</b>

*Most of the work will be completed in-class throughout the semester, therefore attendance is critical. Arriving late or leaving before the end of class is NOT considered class attendance. There are no make-ups for missed classes unless you discuss your absence with the instructor before the class(es) you will miss and provide appropriate documentation within 1 week to support your absences. Requirements for class attendance, unplanned absences and make-up exams, assignments, and other work in this course are consistent with university policies at <https://go.ufl.edu/syllabuspolicies>*

*Third unexcused absence FINAL LETTER GRADE DOCKED 1 LETTER!*

**GRADING SCALE:**

<i>Letter Grade</i>	<i>% Grade</i>
<i>A &gt;=</i>	<i>93.3</i>
<i>A- &gt;=</i>	<i>90</i>
<i>B+ &gt;=</i>	<i>86.7</i>
<i>B &gt;=</i>	<i>83.3</i>
<i>B- &gt;=</i>	<i>80</i>
<i>C+ &gt;=</i>	<i>76.7</i>
<i>C &gt;=</i>	<i>73.3</i>
<i>C- &gt;=</i>	<i>70</i>
<i>D+ &gt;=</i>	<i>67.7</i>
<i>D &gt;=</i>	<i>63.3</i>
<i>D- &gt;=</i>	<i>60</i>
<i>E &lt;</i>	<i>60</i>

<https://go.ufl.edu/syllabuspolices>

## COURSE SCHEDULE:

SEE ELEARNING FOR TOPICAL SCHEDULE

Disclaimer: This syllabus represents the current plans and objectives. As we go through the semester, those plans may need to change to enhance class learning. Such changes, communicated clearly, are not unusual and should be expected.