

PETER BENARCIK
PBenarci@bcc.ctc.edu

OFFICE L114A

INDES 260 PREREQUISITE

Prerequisite: INDES 160, 162, 170, 190, and 191 or concurrent enrollment in INDES 191 or permission of instructor.

INDES 260 CLASS DESCRIPTION

Introduces professional applications for graphic communication skills, specifically the technical drawings used in construction. Students develop a set of construction drawings and specifications for a project of their own design.

This is a lecture-discussion and lab class, designed to be a continuation of the INDES 160 and 162 courses in basic Graphic Communication. Its purpose is to introduce professional application for CADD and drawing skills, while assisting in the continuing development of those skills. The course will begin with a description of the design process and the use of drawing as a design tool. The bulk of the quarter will be spent learning about Construction Documents which will consist of developing a set of working drawings for construction of a selected project.

The structure of the class is a studio which means that you will be expected to produce work during this time period. You must be prepared and have all equipment needed to produce work at every class.

INDES 260 COURSE CONTENT

Lectures and demonstrations within the design studio environment
Student presentations of Design Projects
Project #1 -Introduction Sketch
Project #2 -Final Construction Drawing Set

INDES 260 REQUIRED SUPPLIES

18" Roll tracing paper
Pen, Pencils, Markers, etc
Multi-Scale

PETER BENARCIK
 PBenarci@bcc.ctc.edu

OFFICE L114A

OUTCOMES FOR INDES 260 GRAPHIC COMMUNICATION II

1. Demonstrate an understanding of the basic sequence of a set of working drawings.
2. Demonstrate an understanding that design solutions affect and are impacted by construction systems and methods. (5)

AFTER SUCCESSFUL COMPLETION OF INDES 260 STUDENT WORK WILL

1. Demonstrate an understanding and improvement of clear, concise and correct graphic communication. (i.e. hand lettering and drafting and/or CAD to draw, for example, an accurate dimension plan.) (3v, 4a)
2. Demonstrate the ability to organize, generate and complete a set of working drawings for a selected project. (3v,)
3. Demonstrate the ability to create a professional title block. (4a)
4. Demonstrate the ability to plan and draw a title page. (3v, 4a)
5. Demonstrate the ability to draw a clear, concise and correct demolition plan. (3v)
6. Demonstrate the ability to draw a clear, concise and correct dimension plan. (3v, 5a))
7. Demonstrate the ability to draw a clear, concise and correct electrical, telephone and data location plan.(3v, 5e)
8. Demonstrate the ability to draw a clear, concise and correct reflected ceiling plan. (3v, 5f,g)
9. Demonstrate the ability to draw clear, concise and correct elevations. (3v)
10. Demonstrate the ability to draw clear, concise and correct construction sections and details. (3v)
11. Demonstrate the ability to draw a clear, concise and correct cabinet, finish, flooring, etc. sections and details. (3v)
12. Organize and write specifications for various building materials and finishes. (3v, 4e))

FIDER REFERENCE

Standard 3: Interior Design

Students understand and apply the knowledge, skills, processes, and theories of interior design.

Student work should demonstrate design development skills, including:

- v) Student work must demonstrate competent skills in preparation of contract documents as a system of drawings, schedules, and specifications. The actual components may vary from project to project, but a complete system must be evidenced. (These include construction/demolition plans, power plans, lighting/reflected ceiling plans, finish plans, furniture, fixtures, and equipment plans, data voice telecommunication plans, elevations, sections, and details, interior building specifications, furniture specifications, finish schedules, door schedules, etc.)

Standard 4: Communication

Students communicate effectively.

Student work must demonstrate:

- a) drafting and lettering, both manual and computer-aided techniques.
- e) communicate clearly in writing in specifications and schedules

Standard 5: Building Systems and Interior Materials

Students design with the context of building systems. Students use appropriate materials and products.

The students must demonstrate understanding that design solutions affect and are impacted by:

- a) constructions systems and methods (for example, wood frame, steel frame, masonry, concrete.)
- b) power distribution systems
- e) data/voice
- f) lighting systems
- g) ceiling systems

PETER BENARCIK
 PBenarci@bcc.ctc.edu

OFFICE L114A

GRADING

Each student will come to the class with a certain skill set, hopefully you will leave with a considerably larger one. Quality of work and grading is not gauged according to other students, rather, it is determined from the individual skill sets of each student. I will however gauge the amount of effort and participation a student shows against other students. So in a sense you are competing against others for 20% of your grade.

Attendance, effort and class participation		20%
Drawings		80%
Title Block	10 Points	
Title Page	10 Points	
Dimension Plans	40 Points	
Electrical, Data-Communications	20 Points	
Schedules	10 Points	
Reflected Ceiling Plans	20 Points	
Finish Plans	10 Points	
Furniture Plans	10 Points	
Elevations	30 Points	
Sections	30 Points	
Details	30 Points	
Specifications Booklet	10 Points	
75% Progress Check Set	20 Points	
Revised Set – Final Project	30 Points	
 Total Possible Points	 280 Points	

STUDIO REQUIREMENTS

This is a professional program that demands a professional attitude. In order for your work to communicate your true intentions it vital that you bring a complete concept to class each week -whether or not the whole of the project is finished. Your work must be well thought out and appear neat and professional. Good craft is critical.

Work is to be turned in on time. You should be prepared to present your work at the beginning of every class. No late work will be accepted, only allowed in emergency circumstances (hospitalization, physician documented illness,etc.) Your participation in class is required, you all have opinions and I wish to hear them. There are no wrong questions or answers in this studio. If you don't understand an assignment, concept or method, it is your responsibility to let me know. My office hours are posted on my office door, use them or loose them.

Your attendance is mandatory. Attendance will be taken at the beginning of class with a sign-in sheet, I will use this list as a way to track attendance and as a "first in -first out" desk critic review system. You should be on time for class, as it shows respect for yourself and fellow classmates. Later in the quarter, if you choose to not review your progress with me, sign in on the list and note that you will be working on your own.

Anyone dropping the course beyond the time allowed by the college will receive a failing grade and will have to repeat the course at a future time. This is to save everyone wasted time and effort. This is a studio course, and therefore very time and labor intensive. Please be realistic about your class scheduling.

PETER BENARCIK
PBenarci@bcc.ctc.edu

OFFICE L114A

ACCOMMODATIONS

If you require accommodation based on a documented disability, emergency medical information to share, or need special arrangements in case of emergency evacuation, please make an appointment with DSS (Disability Support Services) as soon as possible. If you would like to inquire about becoming a DSS student you may call 425.564.2498 or go in person to the DSS reception area in the Student Services Building.

REQUIRED READING

INDES260 Architectural Working Drawings Module - initially on reserve in BCC library, eventually in the BCC Bookstore.

SUGGESTED REFERENCE

Construction Drawings and Details for Interiors
W. Otie Kimer & Rosemary Kilmer
Building Construction illustrated
Frank Ching, Van Nostrand Reinhold, Co., Publisher
Architectural Drafting
R.M. Brayton, C.W. Hunsucker & L. R. Knapp, Seneca Publishing
Working Drawing Handbook
Robert C. McHugh, Van Nostrand Reinhold Co., Publisher
Architectural Graphic Standard
C. Ramsey & H. Sleeper; John Wiley & Sons, Publisher
Interior Graphic and Design Standards
S.C. Reznikoff, Watson Gupstill Publications.

PETER BENARCIK
 PBenarci@bcc.ctc.edu

OFFICE L114A

STUDIO SCHEDULE

(schedule may vary according to student progress - all changes will be announced in class)

WEEK 01	09/25 T	Class: Introduction: class structure, grading, schedule, expectations Sketch exercise Lecture: Sequence of drawings Cartoon sets Title Block & General Notes	
	09/27 R	Class: Previous individual projects Review Project Lecture: Site Plan Demolition Plan Building Plans	Sketch Cartoon Set Due

WEEK 02	10/02 T	Class: Lecture: Floor Plans Finish Plans Furniture Plans In-class work session	Cartoon Set Due
	10/04 R	Class: Lecture: Floor Plans In-class work session	Title Block Due

WEEK 03	10/09 T	Class: Lecture: Reflected Ceiling Plans In-class work session	
	10/11 R	Class: Lecture: Reflected Ceiling Plans In-class work session	Floor Plan Due

WEEK 04	10/16 T	Class: Lecture: Electrical Plan Data-Communication Plan Door, Window and Fixture Schedules In-class work session	
	10/18 R	Class: Lecture: Electrical Plan Data-Comm Plan Door, Window and Fixture Schedules In-class work session	Reflected Ceiling Plan Due

PETER BENARCIK
 PBenarci@bcc.ctc.edu

OFFICE L114A

STUDIO SCHEDULE

(schedule may vary according to student progress - all changes will be announced in class)

WEEK 05	10/23 T	Class: Lecture: Elevations Sections In-class work session	
	10/25 R	Class: Lecture: Elevations Sections In-class work session	Electrical Plan Due Data-Comm Plan Due Schedules Due

WEEK 06	10/30 T	NO CLASS	
	11/01 R	Class: Lecture: Finish Plans Furniture Plans In-class work session	Interior Elevations Due Sections Due

WEEK 07	11/06 T	Class: Lecture: Details In-class work session	
	11/08 R	Class: Lecture: Details	Finish Plan Due Furniture Plan Due

WEEK 08	11/13 T	Class: Lecture: Title Page In-class work session	Details Due
	11/15 R	Class: In-class work session	Details Due

PETER BENARCIK
 PBenarci@bcc.ctc.edu

OFFICE L114A

STUDIO SCHEDULE

(schedule may vary according to student progress - all changes will be announced in class)

WEEK 09	11/20 T	Class: In-class work session	75% Progress Check Set Due
	11/22 R	NO CLASS	

WEEK 10	11/27 T	Class: Lecture: Specifications In-class work session	Title Page Due
	11/29 R	Class: In-class work session	

WEEK 11	12/04 T	Class: In-class work session	Specifications Due
	12/06 R	Final Project Due End of Class	

PETER BENARCIK
PBenarci@bcc.ctc.edu

OFFICE L114A

CONTRACT DOCUMENT SET

The bulk of the quarter will be focused on producing a complete contract document set which will include: a construction drawing set and a simple specifications booklet for your design project. Through weekly lectures, you will gain an understanding of what is required of both the drawing set and the specification booklet. You will be required to produce the drawings using AutoCAD software and submit all work as hard copy plotted drawings- no digital files- no exceptions.

The final project will include (at least) the following drawings as part of the complete contract document set:

- Title Block
- Title Page
- Dimensioned Plans
 - Floor
 - Reflected Ceiling
 - Finish
 - Furniture
 - Electrical
 - Data-Communications
- Building Sections
- Interior and Exterior Elevations
- Details
- Schedules
- Specifications Booklet

(quantities of each drawing type may vary based on individual student project requirements.)