SYLLABUS - I.D. 372 - 3  INTERIOR CONSTRUCTION
Spring 2016

I. INSTRUCTOR INFORMATION:

Instructor: Thad Heckman, Architect, Senior Lecturer

Office: 401 Quigley Hall

Office Hours: 10:30 am to 11:50 am and 1:15 p.m. to 1:50 p.m. M/W
1:50 - 2:50 Tu/Th, Other times by appointment

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Contacts: Department Telephone: (618) 453-3734
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II CATALOG DESCRIPTION:

The course will emphasize development of interior construction knowledge and technical illustration skills to solve interior architectural problems in new construction including stairs, casework, and finishes, especially as it applies to a steel structure. Special concern for the adherence to building, fire, and accessibility codes will be observed in the preparation of working drawings for interior construction. The use of computer-aided drafting will be utilized, however manual sketching and possible drafting techniques are expected. This is a Lecture and Studio Course taught in the metric system. Prerequisite: ID 372, Concurrent enrollment in ID 374. Prerequisite to: ID 417, ID 491

III GOALS

1. The student will gain knowledge and skills in the development and preparation of interior working drawings (Construction Documents).

2. The student will develop skills in reading and preparing details, legends and schedules used in construction documents.

3. The student will develop a knowledge base of the materials and systems used in the construction of a high-rise structure.

4. Calculate and lay out a set of stairs for multi-level construction.

5. Research and adhere to accessibility standards pertaining to public toilet rooms.

6. Research and adhere to the typical code requirements pertaining to high-rise structures.

7. Prepare a title sheet for a set of working drawings.

8. Prepare a demolition plan.

9. Given a schematic design of a mid or high-rise floor plan, correctly draw, annotate, and dimension that plan.

10. Given the floor plan and necessary fixtures and materials, prepare a reflected ceiling plan.

11. Prepare a finish plan with the appropriate schedules and notes.
12. Prepare a furnishing plan with the appropriate schedules and notes.

13. The student will develop the problem solving skills required to solve typical interior details encountered during design development including cabinetry and casework.

14. The student will develop an understanding of the integration of Construction Documentation and Specifications (ID 374) required for project coordination and completion.

15. The student will continue to develop the ability to research the technical information necessary for the solution of interior architectural detailing problems.

16. The student will become acquainted with the use of computer-aided drafting and reproduction techniques used in the preparation of interior working drawings.

17. The student will gain a familiarity with using the metric system especially in its application to graphic information and measure.

IV OBJECTIVES:

Upon successful completion of this course, the student should be able to fulfill the following objectives:

1. Identify and understand the basic structural components employed in multi-rise steel construction.

2. Calculate and layout a set of stairs for multi-level construction.

3. Research and adhere to ADA / State Accessibility Standards pertaining to public spaces and public toilet rooms.

4. Research and adhere to typical "Life Safety" code requirements pertaining to multi-rise structures. (NFPA 101)

5. Prepare a Title Sheet for a set of working drawings.

6. Prepare construction documents in consideration for dual dimensions: English and/or Metric standards.

7. Produce a design development layout of a floor plan based on a given Program and Architectural guidelines. Subsequently develop and correctly draw, annotate, and dimension a detailed floor plan(s) for inclusion within a set of construction documents.

8. Prepare a reflected ceiling plan for the above floor plan indicating the necessary fixtures and materials.

9. Prepare a "Finishes" Plan with the appropriate schedule and notes in coordination with the Interior Specifications Course ID 374.

10. Correlate "Furnishings" with the appropriate design considerations.

11. Design and draw details based on design intent and outline specifications.

12. Complete the other assigned objectives based on the above problem or presented in lectures and labs.
V  COURSE ORGANIZATION:

1. Format: Two hours lecture per week/four hour’s lab per week

VI  INSTRUCTION METHODOLOGY:

1. Required Tools/Equipment/Supplies:

A Metric Scale and Architectural Scale, 3 Ring Binder Project Notebook/sketchbook for class notes/handouts and dividers for Correspondence/Notes, Handouts, Sketches, Product Information, Code Requirements, Time sheets, etc. (5) sheets minimum of 24x36 Plotter Bond will be required and paid in advance with the Computer Lab Fee. A “Flash or Jump” drive. Clearprint Pad - 8 1/2 x 11 or 12” Tracing Roll (Flimsy white preferred) for sketching. AutoCad and REVIT software are available in the Lab, use of REVIT is encouraged. If hand drafting: A Set of basic drawing/drafting tools/equipment, and 5 sheets (min.) 24” x 36” Clearprint 1024 vellum.

2. Required Texts:

The Codes Guidebook for Interiors by Sharon K. Harmon (current edition)


Interior Construction & Detailing for Designers and Architects, by David Kent Ballast, AIA, Professional Publications, Inc., Belmont, CA 1994 (If available)

3. Recommended Texts:

Building Construction Illustrated by Francis D.K. Ching


AEC Drafting Fundamentals by Jules Chiavaroli, AIA, NCARB

Construction Principles, Materials, and Methods, by Olin, Schmidt, and Lewis

Interior Graphic and Design Standards, by Reznikoff

AutoCad and/or REVIT (current software issue) - Instant References

4. Instructional Aids:

Field Trips to Construction Sites (when possible). 
Large Format White Copies or Blue line Printer, Photocopy Machine, Transparencies. Computer Aided Design & Drafting and Plotting Systems as well as the internet. Combination of “PowerPoint” presentations, Slides, Videotapes, sample drawings & plots, pre-prepared CADD drawing files and lecture materials.
5. **Guest Speakers:** (as available): Manufacturer's Representatives, Code Officials, State Fire Marshall representatives (if available), Structural Engineer or others.

VII **GRADING SCALE AND POLICY:**

A ten point grading scale is used: A = 90 to 100, B = 80 to 89, C = 70 to 79, D = 60 to 69, F = 59 or less. Grading on a “curve” will **NOT** be implemented.

Attendance is required. This class is similar to a professional office work situation where your clients and staff depend on your timely performance. If there is a problem or concern that might impact your performance, please inform the Instructor as soon as possible.

Projects are due on the date and hour specified for submittal or presentation. Late projects will result in a full letter grade reduction for each 24 hours beyond the specified due date and time. All drawings including computer generated plots are required to be turned in for grading on original plot media, whiteprints or blueprints. Electronic copies of projects will be required to be “dropped” in the Instructor’s folder as reviewed in class. Drawings may be corrected in “Check set” fashion and turned in for a revised score at the student’s option with a maximum of half of the remaining percentage available for additional score.

Please review Chapter 7: Student Conduct Code in the **SIU Undergraduate Catalog** regarding Acts of Academic Dishonesty. Do not trace or copy another Student’s work (Cad files or hand drawn) unless specifically approved by the Instructor.

VIII **EVALUATION CRITERIA:**

Evaluation is based on the student's professional development regarding technical knowledge and CAD or drafting skills in conveying design and construction intent. Grading criteria will be based on scoring working drawings for content and accuracy, performance on exams, and participation in class on an individual (and/or group) basis. Group projects might be assigned of which scoring criteria will be according to pairs or group performances. The class projects, exams, quizzes, and daily class assignments will be according to the approximate breakdown below. There will be only two formal exams, one at midterm and the other during finals week. Both exams will be comprehensive in nature; however, quizzes could be given at any time.

Total semester points will be based on the approximate point values below. The final point total and number of drawing sheets is subject to modifications as the course content and the class progresses. Minimally four of the following sheets will be assigned (five if time permits) of which the sheets implemented will be based on students’ design and construction solutions.

<table>
<thead>
<tr>
<th>A-1</th>
<th>Floor Plan and related items</th>
<th>100 points</th>
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<tbody>
<tr>
<td>A-2</td>
<td>Building Sections/Interior Elevations</td>
<td>100 points</td>
</tr>
<tr>
<td>A-3</td>
<td>Stair/Elevator Sections/Details</td>
<td>100 points</td>
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<tr>
<td>A-4</td>
<td>Reflected Ceiling Plan</td>
<td>100 points</td>
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<tr>
<td>A-5</td>
<td>Furniture Plans and Finishes</td>
<td>I.D. 374</td>
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<tr>
<td>A-6</td>
<td>Large Scale Plans/Details/Casework</td>
<td>100 points</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Midterm Examination</th>
<th>100 points (Combined with I.D. 374)</th>
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<tbody>
<tr>
<td>Final Exam</td>
<td>150 points (Combined with I.D. 374)</td>
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**TOTAL:** ~650 points* (*Assuming four sheets)

**Extra Credit - Pop Quizzes**

As assigned
IX EXPECTATIONS:

1. Students are expected to actively participate in each session by asking and answering questions, exploring solutions by discussing notes, concepts, and ideas in an informal manner. Disable cell phones, paging devices, etc. so as not to disrupt class. Due to a history of students "tuning out" with the use of headphones or ear buds, they are no longer permitted while working in lab. Your attention during impromptu questions and clarifications in lab is paramount. Please arrive on time so as not to disrupt class.

2. Students are expected to research building materials in advance to prepare for the lab problems. *Sweet's* catalogs are available in Quigley 005 for this purpose. Internet access is available in Quigley 106 for researching materials, manufacturers’ and using *Sweet’s On-line*. Information and details must be appropriate to the application and not merely copied or plagiarized on-line (or elsewhere) and “blindly” inserted into the drawing. Manufacturer’s literature and details may also be used in this same fashion.

3. Students are expected to turn in all projects on time. Only projects handed in at the specified time and place will be considered for full credit. Projects will be accepted subject to the penalty above. For purposes of computing the late penalty all days of the week are used, including Tuesday, Thursday, Saturday, & Sunday. A Project more than three (3) days late will not be accepted, resulting in the student receiving a zero (0) on that project. If the Secretaries will accept projects, you must ask the secretary to initial and date/time stamp any project submitted outside regular class hours, unless given directly to the instructor. The late penalty is assessed for each day or a portion thereof.

4. Students are expected to comply fully with the regulations posted in the computer labs. Students are also expected to comply fully with the policies of Southern Illinois University at Carbondale.

5. Students are expected to keep all work areas clean. No food or drink will be permitted at any time in Quigley 106, should you be using the computer lab.

6. Students are expected to work in class during the scheduled time, in addition to work completed outside class. Students who prefer to work outside class will need to learn to work in class on the assigned projects during the scheduled time. This is in keeping with the practices of a professional office, and will help the student to develop good work habits -- habits that are also expected in a professional office.

7. A break is a maximum of ten (10) minutes long. Students are entitled to two (2) breaks during each class session. The two breaks may be combined into one twenty (20) minute break taken during the lab. Breaks can be taken at any time during the lab session, unless students begin to “disappear” for extended periods of time. If that occurs, break time will be dictated for all students at a specified time during the lab session.

8. The use of any tobacco product is forbidden in class. This includes tobacco in all of its forms and extends to all rooms and spaces in which any portion of the class is conducted, as well as those spaces necessary to access classroom areas. It also includes any field trip or outside activity that is a part of the class’ activities. Failing to comply with this class policy will be considered a violation of the Student Conduct Code of Southern Illinois University Carbondale, article II, section 4. Students are directed to article III, section B, which states that the punishment shall be: “A failing grade (F) may be assigned for the course in which the violation occurred.”

9. Unless work is assigned as a team, each student shall do their own work. Please review the *Student Conduct Code* – especially those areas related to university policy regarding acts of academic dishonesty and the definition of plagiarism.
10. Drawings, details, articles, and files or media found on web sites, CD ROMs, other electronic media, scanned imaging, or from students - especially those who have previously completed all or portions of this course, MAY NOT BE USED FOR ANY PURPOSE IN THIS CLASS. The Instructor will provide students with the appropriate materials or with references that are permissible for class use. Using the work of another student for any purpose is NOT PERMITTED and will be regarded as academic dishonesty.

EMERGENCY PROCEDURES (see attached):

Notes and Discussion: