# ADES 3620 - INTERIOR DESIGN: AUTOCAD, FALL 2010

Section 501: TR 8:00am – 10:50am; Section 502: TR 2:00pm – 4:50pm; Classroom: ART 233

## COURSE SYLLABUS

Instructor: Jin Gyu "Phillip" Park, Ph.D., Assistant Professor
Office hours: Tuesdays & Thursdays, 11:00 am – 12:00 pm
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### COURSE DESCRIPTION:

This course introduces basic AutoCAD application for the production of industry standard drawings for both design presentation and construction documentation. Prerequisites: ADES 2630 and ADES 2640.

### COURSE OBJECTIVES:

Through participation in course discussions and completion of course assignments, students will acquire and demonstrate competency in the following AutoCAD drafting skills and basic techniques of Revit Architecture:

- AutoCAD Interface
- Basic Commands
- Drawing Setup
- Drawing Standard & Organization
- Titleblock & Template
- Model & Paper Spaces
- External Referencing
- Layers & Blocks
- Texts & Annotation
- Dimensioning
- Printing & Plotting

In addition to the AutoCAD drafting skills, this course will introduce fundamental of Building Information Modeling (BIM) using Revit Architecture software program.

### RECOMMENDED BOOKS:

These books are recommended for your reference only. The book prices may vary depends on seller.

*AutoCAD:* Seidler's book is good for beginner and intermediate levels. Omura's book has more profound information about AutoCAD 2009.

Seidler, D. (2007). *Digital drawing for designers: A visual guide to AutoCAD*. Fairchild Publications. ISBN: 9781563675126 (Approximately $73 at Amazon.com).

Omura, G. (2008). *Mastering AutoCAD 2009 and AutoCAD LT 2009*. Wiley Publishing. ISBN: 9780470287040 (Approximately $32 at Amazon.com).

*Revit Architecture:* The former book is for beginners and the later is for intermediate or advanced users.

Demchak, G., Dzambazova, T., & Krygiel, E. (2009) *Introducing Revit Architecture 2010: BIM for Beginners*. ISBN-13: 978-0470473559 (Approximately $38 at Amazon.com).

Dzambazova, T., Krygiel, E., & Demchak, G. (2009) *Mastering Revit Architecture 2010*. ISBN-13: 978-0470456491 (Approximately $45 at Amazon.com).

**REQUIRED SUPPLIES:**

A flash drive (at least 256MB, approximately $6 at Amazon.com but the price may vary depends on seller) for electronic data storage or an equivalent equipment is necessary in each class period. Students are responsible for saving their data on this personal storage device. Students are extremely encouraged to have **at least 2 backup** of their data.

**COURSE STRUCTURE:**

This course is offered in a lecture/lab format with 6 contact hours per week. The course consists of drafting projects and in-class exercises. Students will complete in-class exercises and discuss topics each class session. Individual review will be limited if it intervene overall course progress. Some exercises may be required outside of regular class hours.

**STUDENT EVALUATION:**

Grades will be determined by a weighted average of the grades earned for the attendance, participations, in-class exercises, and projects. Students MUST demonstrate their mastery of techniques introduced IN CLASS TO THE INSTRUCTOR.

| | |
|---|---|
| In-Class Exercises | 20% |
| Quizzes | 10% |
| Project 1 | 20% |
| Project 2 | 20% |
| Project 3 | 20% |
| Project 4 | 10% |

A letter grade will be submitted on the basis of the weighted average as follows:

| **A weighted average of:** | **will earn a letter grade of:** |
|---|---|
| 90% and above | A (Excellent work) |
| 80% to 89.99% | B (Good work) |
| 70% to 79.99% | C (Average work) |
| 60% to 69.99% | D (Poor work) |
| Anything below 60% | F (Failing work) |

*In-Class Exercises:* Students will involve analyzing orthographic images of objects and drafting them using AutoCAD. Students will experiment basic commands and settings throughout the exercises.

*Quizzes:* Students will take quizzes of topics discussed in class. Time and topics for quizzes will be announced in advance by the instructor.

*Project 1:* This project is to generate fundamental construction documents of an apartment unit using AutoCAD. Basic techniques will be introduced and students will generate a floor plan, an elevation and a section of the unit.

*Project 2:* This project is to produce construction documents of a two-story apartment unit design using AutoCAD. Students will design second floor of the apartment unit on top of the first project. The first floor will be slightly modified due to a staircase addition. Students will generate multiple floor plans with furniture layout, elevations, sections, and lighting plans of the apartment unit. Cross referencing will also be addressed.

*Project 3:* This project is to generate a set of construction documents of a residential house design using AutoCAD. Students will reinforce their experience in residential design gain exposure to a timber-frame structural building system. This project will require the development of more detailed construction documents.

*Project 4:* This project is to produce a parametric model of a building. Students will generate a set of construction documents from the virtual 3D model using Revit Architecture.

**ATTENDANCE:**

Attendance is mandatory since the majority of work is performed in class. Punctuality is required and considered an indication of professionalism and responsibility. Late arrivals (15 minutes after the start of class) and early departures (prior to the last 15 minutes of class) will be considered an absence. Work on courses other than the course in class time will also be considered an absence.

- Four unexcused absences will result in a letter grade reduction in the final grade.
- Each subsequent absence will result in a further letter grade reduction.
- Eight unexcused absences will result in automatic failure of the course.

The Absence Verification form is available in the Dean of Students Office suite 2161 in the Union. Approved absences are those due to medical emergency or death in the immediate family. Both excused and unexcused absences affect your class experience.

Students are responsible for signing the role, tracking their absences, and obtaining any missed material from their classmates. Each student will be held individually responsible for responding to announcements regarding any and all aspects of this course, and for receiving and storing all handouts. Each student is also individually responsible for acquiring lecture notes from a classmate if he or she misses a given class session.

The instructor will not repeat material missed due to absence. Student with more than four absences should contact the instructor about completing the project or course. The best method of contacting the instructor is via email at phillip.park@unt.edu

**AMERICAN DISABILITIES ACT:**

The College of Visual Arts and Design is committed to full academic access for all qualified students, including those with disabilities. In keeping with this commitment and in order to facilitate equality of educational access, faculty members in the College will make reasonable accommodations for qualified students with a disability, such as appropriate adjustments to the classroom environment and the teaching, testing, or learning methodologies when doing so does not fundamentally alter the course.

If you have a disability, it is your responsibility to obtain verifying information from the Office of Disability Accommodation (ODA) and to inform the instructor of your need for an accommodation. Requests for accommodation must be given to the instructor no later than the first week of classes for students registered with the ODA as of the beginning of the current semester. If you register with the ODA after the first week of classes, your accommodation requests will be considered after this deadline.

Grades assigned before an accommodation is provided will not be changed. Information about how to obtain academic accommodations can be found in UNT Policy 18.1.14, at www.unt.edu/oda, and by visiting the ODA in Room 321 of the University Union. You also may call the ODA at 940.565.4323.

**FINAL DISCLAIMER:**

The instructor reserves the right to alter this syllabus if and when necessary.

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## COURSE SCHEDULE

*Due to the nature of this class, the schedule is subject to change.*

| Class | Topic | Remark |
|---|---|---|
| 1 | Course Overview; Lab Orientation | |
| 2 | Exploration of Interface, Menu & Settings | In-Class Exercises |
| 3 | Basic Commands | In-Class Exercises |
| 4 | Basic Commands | In-Class Exercises |
| 5 | Basic Commands | In-Class Exercises |
| 6 | Drawing Setup; Titleblock & Template | Project 1 Introduction |
| 7 | Layer; Block; Door & Window | |
| 8 | Model Space vs. Paper Space | |
| 9 | Text & Annotation; Dimensioning | |
| 10 | Layout; Printing & Plotting | Project 1 Due |
| 11 | Project Overview; Floor Plan | Project 2 Introduction |
| 12 | Drawing Furniture & Staircase | |
| 13 | Elevation | |
| 14 | Section | |
| 15 | External Referencing | |

| Class | Topic | Remark |
|---|---|---|
| 16 | Reflected Ceiling Plan & Lighting Plan | |
| 17 | Construction Document Organization | Project 2 Due |
| 18 | Project Overview; Floor Plan | Project 3 Introduction |
| 19 | Drawing Furniture; Design Center | |
| 20 | Building Elevation vs. Interior Elevation | |
| 21 | Section & Annotation | |
| 22 | Text & Annotation; Dimensioning | |
| 23 | Model Space vs. Paper Space | |
| 24 | External Referencing; Measurement & Calculation | Project 3 Due |
| 25 | Construction Document Organization | |
| 26 | Layout; Printing & Plotting | |
| 27 | Thanksgiving | |
| 28 | Building Information Modeling; Revit Interface & Menu | Project 4 Introduction |
| 29 | Basic Commands | |
| 30 | Basic Commands; Modify Tools; Printing & Plotting | |
| 31 | Modify Tools; Printing & Plotting | Project 4 Due |