COURSE SYLLABUS

REVIT ADVANCED
ADES 4615 INTD. TOPICS
SPRING 2018

Thursday 05:00P – 07:50P, Room 233

INSTRUCTOR: Zahid Islam Ph.D., Assistant Professor, Dept. of Design
OFFICE: ART 207
OFFICE HOURS: T/R 08:00AM - 11:00AM
or by appointment.
EMAIL: zahid.islam@unt.edu

COURSE DESCRIPTION & PREREQUISITES:

ADES 4615 INTD. TOPIC Revit Advanced. (3 hours)

This course, REVIT Advanced, offers more advanced topics and functional application of 3D computer drafting based on Revit Architecture with a focus specifically on interior design.

BLACKBOARD/ ONLINE RESOURCES:

Course material and learning modules will be distributed online. This course will be available on the UNT Blackboard Learn™ system. You’ll be able to print reference material, handouts, assignments, and syllabus. Lynda.com will be used as secondary reference.

TEXTS:

These books are not textbooks. They are recommended for your reference.


COURSE OBJECTIVES:

This course teaches the student an intermediate to advanced understanding of Building Information Modeling using Autodesk Revit 2018 as the primary software tool. Students completing this course will have the necessary skills to competently use BIM in a work environment with minimal workplace-specific training.

BIM describes the architectural and/or design process in general as a virtual environment/model where all information is interrelated. In addition, Revit has parametric capabilities that allow users to change, optimize, analyze/investigate alternative ideas. BIM has become the mainstream in the world of building and construction, and should be considered the future of (architectural) design. Autodesk Revit is one of the more widely used programs and is considered the industry standard.

After completing this course, students should be able to:

- Define BIM and differentiate BIM and CAD
- Understand the interface of Revit Architecture
- Understand how a Revit project is structured
- Navigate the various views of a project using the project browser
- Understand how Revit creates building components
- Understand more advanced commands and functional application
- Use working drawing tools for notation, scheduling, and dimensioning
- Create print sets
STUDENT LEARNING EXPECTATIONS/OUTCOMES:

1. To gain understanding of how Building Information Modeling is incorporated into the design process as a tool for critical analysis & digital prototyping of design ideas. (CIDA std 2017: 9:a,d)
2. To develop computer/Revit skills which allow the student to apply the gained knowledge directly into other courses such as Studio (CIDA std 2017: 9:b,c)
3. Apply a variety of communication techniques and technologies appropriate to a range of purposes and audiences (CIDA std 2017: 9:e)
4. To develop competency in creation and alteration of construction documents within the BIM software package. (CIDA std 2017: 11:b,c,d)
5. To gain understanding of the real world application of Building Information Modeling.

COURSE STRUCTURE:

This course is offered in a lecture/lab format with 9 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. Some exercises may be required outside of regular class hours.

STUDENT'S RESPONSIBILITY:

Students are responsible for collecting and saving all material assigned in the class, even if the student misses a class. DO NOT ASSUME ANYTHING. Get clarifications form your instructor if you are confused about assignments, due dates & such.

All assignments are to be copied or plotted and turned in on paper. The exact format will be dependent on the assignment.

Quizzes

There will be several on-line quizzes based on information provided in class & the text book. They are open book and must be completed within assigned time, once they are made available.

Attendance and Homework

This course is intense, fast paced, and critical to your growth as an interior designer. You need to be fully immersed and engaged in this course. Attendance during scheduled class time is imperative if you are to keep up with the assignments. You will need to be in class at the start of class, stay in attendance until class is over and be working, attentive and engaged. Attendance will taken at the start of each class period. Late arrivals (20 minutes after the start of class) and early departures (prior to the last 20 minutes of class) will be considered an absence. Work on courses other than the course in class time will also be considered an absence.

- Three unexcused absences will result in a letter grade reduction in the final grade.
- Each subsequent absence will result in a further letter grade reduction.
- Six 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.
ASSIGNMENTS:

All class assignments and projects are due according to the problem statement. If for any reason you do not understand an assignment it is your responsibility to see the instructor for clarification and assistance (class time or office hours). All studio projects must be completed to receive a passing grade in class.

The studio course environment can be a stimulating, positive aid to your creativity and progress. In order to ensure this occurs, you are expected to be prepared to work in class. It is necessary to arrive to class with required activities completed to avoid being counted absent. All studio projects must be completed to receive a passing grade in this class; however, MERELY COMPLETING ALL PROJECTS DOES NOT GUARANTEE A PASSING GRADE.

Late Work:

Unless otherwise noted, assignments and projects are due at the beginning of the class period designated. Late assignments will be reduced one letter grade for each additional late class period.

Students with unexcused absences will receive a score of “0”, and CANNOT turn in work that was due that day. No emails of work will be accepted. Students with excused absences may make up missed work within 2 class periods after returning to class, unless otherwise excused by the instructor.

SHARED FILES AND PLAGIARISM:

Students are expected to know, understand, and comply with the ethical standards of the university, including rules against plagiarism. Plagiarism is the use of another person’s ideas or words without acknowledgement. The incorporation of another person’s work into yours requires appropriate identifications and acknowledgement. The following are considered to be forms of plagiarism when the source is not noted: word-for-word copying of another person’s ideas or words; the “mosaic” (interspersing your own words here and there while, in essence, copying another’s work); the paraphrase (the rewriting of another’s work, while still using their basic ideas or theories); fabrication (inventing sources); submission of another’s work as your own; and neglecting quotation marks when including direct quotes.

What is Cheating & what is allowed

All assignments are to be the original work performed by the student. Students may collaborate for ideas, concepts, and support, but each shall create and produce their own drawings. Sharing of computer files, or cutting and pasting drawings, is strictly forbidden, unless required by the assignment description. Consulting with each other is encouraged, but make sure you are the one creating your own drawings and designs.

REQUIRED SUPPLIES:

Storage Device: Portable drive, Cloud storage is highly recommended. Corrupted or lost data due to storage malfunction should not be used as an excuse by any mean.

Personal Laptop: it is required that students open a free Autodesk 360 account and have Autodesk Revit 2018 (with free student license) installed and running in their personal laptop/desktop computer.
COURSE SCHEDULE

- Some days may be left open to allow for flexibility and additional coverage of topics.
- Every effort will be made to adhere to the schedule, however, due to different learning paces, it is not uncommon for the schedule to be altered to address areas where additional time is needed to learn the material.
- It is natural that there will be variances in the instruction and information delivered between the two sections.
- Learning differences occur between groups and the type of and delivery of information may be modified to assist with this learning curve.
- The best feedback you will receive is in the form of desk reviews, which will happen in many cases, for every student during most class periods.

NOTE: The instructor(s) retains the right to change the syllabus with or without notice.

ASSIGNMENTS:

All class assignments and projects are due according to the problem statement. With each exercise or lab assignment you will receive a problem statement outlining requirements and general information. If for any reason you do not understand an assignment it is your responsibility to see the instructor for clarification and assistance (class time or office hours). All studio projects must be completed to receive a passing grade in class. No late assignments will be accepted without prior in-person approval.

The studio course environment can be a stimulating, positive aid to your creativity and progress. In order to ensure this occurs, you are expected to be prepared to work in class. It is necessary to arrive to class with required activities completed to avoid being counted absent.

All studio projects must be completed to receive a passing grade in this class; however, MERELY COMPLETING ALL PROJECTS DOES NOT GUARANTEE A PASSING GRADE. No late assignments will be accepted without prior approval.

GRADING/ 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 in class to the instructor. Please note that failure of any one project, exercise or assignment will lead to failing this course.

<table>
<thead>
<tr>
<th>Category</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exercises/Assignments</td>
<td>20%</td>
</tr>
<tr>
<td>Project 1</td>
<td>30%</td>
</tr>
<tr>
<td>Project 2</td>
<td>40%</td>
</tr>
<tr>
<td>Quiz (2)</td>
<td>10%</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>A weighted average of:</th>
<th>will earn a letter grade of:</th>
</tr>
</thead>
<tbody>
<tr>
<td>90% and above</td>
<td>A (Excellent work)</td>
</tr>
<tr>
<td>80% to 89.99%</td>
<td>B (Good work)</td>
</tr>
<tr>
<td>70% to 79.99%</td>
<td>C (Average work)</td>
</tr>
<tr>
<td>60% to 69.99%</td>
<td>D (Poor work)</td>
</tr>
<tr>
<td>Anything below 60%</td>
<td>F (Failing work)</td>
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</tbody>
</table>
A - indicates EXCELLENT achievement. The work contains well-resolved solutions and sufficient information to communicate design(s) effectively. Execution is at a professional level. Included work exceeds that requested in the project outline.

B - refers good quality of creative solutions and execution. It may be lacking in polish or appropriateness of solution or it may lack sufficient information to communicate effectively, but above average.

C - work is determined to be average (not inferior). Work has met all project goals but may lack originality and appropriateness and/or execution is not professional. Information may not be sufficient to communicate design effectively.

D - indicates failure to meet minimum quality and informational standards.

F - failure to fulfill requirements of the course.

CONTENT DISCLAIMER

The instructor reserves the right to change the contents of the syllabus and/or schedule as needed to accommodate new material, guest speakers, and other educational factors that may improve class understanding, knowledge, and successful participation and completion of assignments.

DROP PROCEDURES:

Official withdrawal from class is the responsibility of the student. If you are unable to complete the course or courses for which you have registered, it is your responsibility to withdraw formally from the course. Refer to the UNT course schedule for drop dates and procedures.

Academic Calendar: Please refer to 2016-2017 Academic calendar for further information regarding Withdrawal without penalty and drop or withdrawal with a failing grade. (http://catalog.unt.edu/content.php?catoid=15&navoid=1228)

FACULTY/STUDENT COMMUNICATION

All online communication between faculty and students must use the student’s my.unt.edu email account address. The class BbLEARN site will be used extensively for communication. Faculty may not use a student’s personal email account to distribute information, but students may elect to forward email received through my.unt.edu to their personal email. Students are responsible for checking/managing their my.unt.edu email to keep current on course information.

DISABILITIES ACCOMMODATION

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 me of your need for an accommodation. Requests for accommodation must be given to me 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 http://unt.edu/oda and by visiting the ODA in Sage Hall, room 167. See https://disability.unt.edu/faq#b. You also may call the ODA at 940.565.4323.
COURSE RISK FACTOR

This class has been assigned a level 2 Risk Rating, a course in which students are exposed to some significant hazards but are not likely to suffer bodily harm. Risks associated with this class include but are not limited to spray adhesives, fixatives, x-acto knives or other presentation materials. Students will be informed of any potential health hazards or potential bodily injury connected with the use of any materials and/or processes and will be instructed how to proceed without danger to themselves or others.

Students who are pregnant or will become pregnant during the course of the semester are advised to check with their doctor immediately to determine if any additional risks are reason to postpone this course until a later semester. Upon request, your professor will provide a list of chemicals and safety issues for your doctor to review. Material Safety Data Sheets are available on all chemicals. It will be up to you and your doctor to determine what course of action to take.

STUDENT RIGHTS AND RESPONSIBILITIES

Each University of North Texas student is entitled to certain rights associated with higher education institutions. See https://policy.unt.edu/category/policy-chapters/7-student-affairs for links to policy documentation.

CONFIDENTIALITY STATEMENT REGARDING USE OF COURSE MATERIAL

Programmatic information, base building drawing and documentation, electronic files, and hard copies have been provided for this class by a professional design office. These materials are for instructional use only and may not be mass-produced or distributed for any purpose other than to fulfill course requirements for this class.

BUILDING EMERGENCY PROCEDURES

In case of emergency (alarm will sound), please follow the building evacuation plans posted on each floor of your building and proceed to the nearest parking lot. In case of a tornado (campus sirens will sound) or other weather-related threat, please go to the nearest hallway or room on your floor without exterior windows and remain there until an all clear signal is sounded. Follow the instructions of your teachers and act accordingly.

RETENTION/REPRODUCTION OF STUDENT WORK

Some of the work produced for this class may be retained or copied for future use by the college, department or program. Students are required to read and determine if they give permission for their work and personal image to be reproduced.

Permission to use student work:
https://art.unt.edu/sites/default/files/u31/publication%20release%20form.pdf and

Permission to publish photographs and release:
https://art.unt.edu/sites/default/files/u31/Model%20Release%20Form.pdf

Read these documents carefully prior to signing the form included in your syllabus packet.

These forms must be returned at or before your next class.
ASSIGNMENTS:

All class assignments and projects are due according to the problem statement. With each exercise you will receive a problem statement outlining requirements and general information. If for any reason you do not understand an assignment it is your responsibility to see the instructor for clarification and assistance (class time or office hours). The studio course environment can be a stimulating, positive aid to your creativity and progress. In order to ensure this occurs, you are expected to be prepared to work in class.

<table>
<thead>
<tr>
<th>DATE</th>
<th>ASSIGNMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 18</td>
<td>Course overview/ Concepts of BIM/ General discussion. Q/A</td>
</tr>
<tr>
<td>Jan 25</td>
<td>Interface; Commands; In-class exercise</td>
</tr>
<tr>
<td>Feb 01</td>
<td>Modeling; In-class exercise</td>
</tr>
<tr>
<td>Feb 08</td>
<td>PROJECT 1 - INTRODUCTION</td>
</tr>
<tr>
<td>Feb 15</td>
<td>Floor Plan; Customized Titleblock</td>
</tr>
<tr>
<td>Feb 22</td>
<td>Linework; Modify Tools; Curtainwall</td>
</tr>
<tr>
<td>Mar 01</td>
<td>Roof; Elevations</td>
</tr>
<tr>
<td>Mar 08</td>
<td>Sections; Printing</td>
</tr>
<tr>
<td>Mar 15</td>
<td>NO CLASS- Spring Break</td>
</tr>
<tr>
<td>Mar 22</td>
<td>Construction Documents</td>
</tr>
<tr>
<td>Mar 29</td>
<td>DUE: Project 01</td>
</tr>
<tr>
<td>Apr 05</td>
<td>PROJECT 2 - INTRODUCTION</td>
</tr>
<tr>
<td>Apr 12</td>
<td>Floor systems, Roof, Dimensions</td>
</tr>
<tr>
<td>Apr 19</td>
<td>Reflected Ceiling Plan</td>
</tr>
<tr>
<td>Apr 26</td>
<td>Elevations; Sections</td>
</tr>
<tr>
<td>May 03</td>
<td>Schedules; Details, CDs (last class)</td>
</tr>
<tr>
<td>May 10</td>
<td>DUE: Project 02</td>
</tr>
</tbody>
</table>

NOTE: The outline may be altered with or without notice

All studio projects must be completed to receive a passing grade in this class; however, merely completing all projects does not guarantee a passing grade. No late assignments will be accepted without prior approval.