COURSE SYLLABUS

COURSE DESCRIPTION:
This course, Building Information Modeling (BIM) Introduction, is an introduction to the fundamentals of 3D computer drafting based on Revit Architecture with a focus specifically on interior design.

REFERENCE BOOKS:
These books are not textbooks. They are recommended for your reference. The prices may vary depends on seller.

For beginners

For intermediate or advanced users
*Mastering Autodesk Revit Architecture 2010/2011/2012* series (Publisher: Sybex, 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 OBJECTIVES:
The primary objective of this course is to teach students the concepts of BIM and introduce the tools for parametric building design and documentation using Revit Architecture 2010. 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 objects.
- Create a range of basic building components.
- Use working drawing tools for notation, scheduling, and dimensioning.
- Create print sets.

COURSE STRUCTURE:
This course is offered in a lecture/lab format with 9 contact hours per week. The course consists of drafting projects, in-class exercises, and quizzes. Students will complete in-class exercises and discuss topics each class session. 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, quizzes, and projects. Students must demonstrate their mastery of techniques in class to the instructor.

<table>
<thead>
<tr>
<th>Exercise</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>Exercises</td>
<td>20%</td>
</tr>
<tr>
<td>Project 1</td>
<td>40%</td>
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<tr>
<td>Project 2</td>
<td>40%</td>
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</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>
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<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>
</tr>
</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.

**Exercises:** Students will involve analyzing building components and generating the components using Revit Architecture in class. Students will experiment Revit Architecture interface, basic commands, and settings throughout the exercises.

**Project 1:** This project is to produce construction documents of a two-story residential house using Revit Architecture.

**Project 2:** This project is to produce a parametric model of any type of a building using Revit Architecture based on the student’s preference. Project scope and a set of construction documents will be determined by discussions between the student and the instructor.

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 (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. The best method of contacting the instructor is via email at phillip.park@unt.edu.

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:
Each student's work will be generated independently unless otherwise noted. Electronic drawings, assignments, and examinations are considered original work and are not to be shared between students. All work assigned as part of this course is governed under University plagiarism policies.

CHANGES IN SYLLABUS:
The instructor retains the right to change the syllabus with or without notice.

INCOMPLETE:
An Incomplete is reserved solely for extenuating circumstances (such as a major illness or severe family crisis) and will be granted at the discretion of the instructor. If an Incomplete is granted, the student must complete the unfinished work on or before the date specified by the instructor when the Incomplete is granted. An Incomplete Contract must be completed prior to the end of the semester and filed in the Department Office. Failure to complete the entire work assignment on or before the specified completion date will result in a final grade of an "F" with no consideration given to partially completed work.

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.

COURSE RISK FACTOR:
According to University Policy, this course is classified as a category one course. Students in this course are not exposed to significant hazards and are not likely to suffer any bodily injury. 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.

STUDENT RIGHTS AND RESPONSIBILITIES:
Each University of North Texas student is entitled to certain rights associated with higher education institutions. See www.unt.edu/csrr for further information.

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 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.

PRECAUTIONS:
No other course work. No food or drinks are allowed in the lab. No mobile phones are to be audible during class hours unless permitted by the instructor. No radios, tape, CD, or mp3 players during class hours. No video or voice recording without the instructor's permission. No pets and guests are allowed in class. Lastly, university furniture and equipment are to be treated with care.

STUDENT ACKNOWLEDGEMENT:
Please read the syllabus thoroughly. As you understand information on the syllabus, sign the student acknowledgement form on next page and turn it in to the instructor.
# 2011 Summer Semester Course Schedule

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

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Remark</th>
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<tbody>
<tr>
<td>1</td>
<td>7/12</td>
<td>Course Overview/Lab Orientation/What BIM is</td>
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<tr>
<td></td>
<td>7/13</td>
<td>Interface, Basic Commands, Sketch Mode</td>
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<tr>
<td></td>
<td>7/14</td>
<td>Basic Commands, Basic Modeling</td>
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<tr>
<td></td>
<td>7/19</td>
<td><strong>Project 1 introduction</strong>, Floor Plan</td>
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<tr>
<td>2</td>
<td>7/20</td>
<td>Linework, Modify Tools</td>
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<td></td>
<td>7/21</td>
<td>Roof, Elevations</td>
<td></td>
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<tr>
<td></td>
<td>7/26</td>
<td>Sections, Printing, <strong>Project 1 due</strong></td>
<td></td>
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<tr>
<td>3</td>
<td>7/27</td>
<td><strong>Project 2 introduction</strong>, Floor Plan</td>
<td></td>
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<tr>
<td></td>
<td>7/28</td>
<td>Floor systems, Roof, Dimensions</td>
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<td></td>
<td>8/02</td>
<td>Reflected Ceiling Plan</td>
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<tr>
<td>4</td>
<td>8/03</td>
<td>Elevations</td>
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<td></td>
<td>8/04</td>
<td>Sections</td>
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<td>8/09</td>
<td>Schedules</td>
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<tr>
<td>5</td>
<td>8/10</td>
<td>Construction Documents</td>
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<tr>
<td></td>
<td>8/11</td>
<td>Construction Documents, <strong>Project 2 due</strong></td>
<td></td>
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