



 Houston Community College	Department of <b>Drafting &amp; Design Engineering Technology</b>	
<b>DFTG-1376</b> <b>Revit Residential</b>	<h1>Syllabus</h1>	Semester: <b>Spring 2017</b> Class (CRN) # <b>14992</b>
<b>Semester Credit Hours (SCH):</b> 96 <b>Credit Hours:</b> 3 <b>Format:</b> Lecture: 1/3 Lab and/or Web: 2/3 Weekly class meetings and home assignments: For 16-wk regular semester: 6 hrs. (4-5 hrs. for WE class) For 2 <sup>nd</sup> Start 12-wk term: 8 hrs. (4.8-6 hrs. for WE class) For Summer 8wk term: 12 hrs (7.2-9 hrs. for WE class) <b>Note:</b> Web Enhanced classes include online assignments.	<b>Professor/Instructor:</b> <a href="mailto:iwao.takahashi@hccs.edu">Iwao Takahashi</a> <b>Contact phone number:</b> TBA <b>Other phone number:</b> TBA <b>Best times to call:</b> _ TBA _ <b>Email:</b> <a href="mailto:iwao.takahashi@hccs.edu">iwao.takahashi@hccs.edu</a>	<b>Class meeting location:</b> <ul style="list-style-type: none"> <li>• <b>Campus</b> _SE Workforce_, <b>Room</b> _305_</li> <li>• <b>Date:</b> (i.e. Mon) _Sat__</li> <li>• <b>Time:</b> 9:00am-2:00pm</li> </ul>
<i>Any question or concern, please contact your instructor first. You can also contact Lead Faculty or department administration for further assistance. Thank you.</i>	Faculty Department Chair: <b>Francis Ha</b> Phones: <b>713 718-5544</b> Rowena Hubbard, Dept. Assistant: <b>713-718-8033</b> Email: <a href="mailto:francis.ha@hccs.edu">francis.ha@hccs.edu</a>	<b>Office:</b> 1265 Pinemont Dr., Suite 151, MC 1376 Houston, Texas 77018.

<b>Semester with Course Reference Number (CRN)</b>	Spring 2017 CRN 14992
<b>Instructor contact information (phone number and email address)</b>	Dr. Iwao Takahashi <a href="mailto:iwao.takahashi@hccs.edu">iwao.takahashi@hccs.edu</a>
<b>Office Location and Hours</b>	n/a
<b>Course Location/Times</b>	Southeast- Workforce, Room 305 Saturday 9:00 AM –2:00 PM
<b>Course Semester Credit Hours (SCH) (lecture, lab) If applicable</b>	Credit Hours: 3 Lecture Hours: 2 Laboratory Hours: 4 External Hours: 4

<b>Total Course Contact Hours</b>	96.00
<b>Course Length (number of weeks)</b>	16 Weeks
<b>Type of Instruction</b>	Lecture and Lab
<b>Course Description:</b>	Use architectural design software for 2D and 3D modeling design and drafting.
<b>Course Prerequisite(s)</b>	DFTG 1305, DFTG 1309, and DFTG 1317
<b>Course Textbook</b>	Architectural Drafting & Design, 7th Ed., Author: Jefferis & Madsen, Publisher: Cengage Learning, ISBN: 978-1-285-16573-8
<b>Recommended Course Textbook By The Instructor</b>	The Aubin Academy Revit Architecture, Author: Paul F Aubin, Publisher: G3B Press, ISBN-13: 978-0-692-47039-8
<b>Academic Discipline/CTE Program Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Identify appropriate use and procedures of architectural design and construction specific software designing residential building.</li> <li>2. Analyze building materials characteristics and application to the residential building.</li> <li>3. Participation to an educational workshop currently emphasized in the related industries.</li> <li>4. Develop the application of aesthetic, functional, and technological aspect of building design activity.</li> </ol>
<b>Course Student Learning Outcomes (SLO): 4 to 7</b>	<ol style="list-style-type: none"> <li>1. Laboratory work, Green Home design – (50% evaluation of grade)</li> <li>2. Quick Start Project – (10%)</li> <li>3. Autodesk BPA online workshop (at least three courses) – (10 % of evaluation of grade)</li> <li>4. Demonstration of knowledge and skills of Revit software through mid-term and final examination – (20% evaluation of grade)</li> <li>5. Demonstration of professionalism through course activities and participations to the course work – (10% evaluation of grade)</li> </ol>
<b>Learning Objectives (Numbering system should be linked to SLO - e.g., 1.1, 1.2, 1.3, etc.)</b>	<ol style="list-style-type: none"> <li>1. <b>Comprehend the basic level of Revit software function and identify the building materials and construction method relevant to these functions.</b></li> <li>2. <b>Create a sustainable home design with appropriate process and procedure, method, and technology.</b></li> <li>3. <b>Identify current industry emphasis of importance for building design and construction.</b></li> <li>4. <b>Demonstrate professionalism.</b></li> </ol>
<b>SCANS and/or Core Curriculum Competencies: If applicable</b>	
<b>Instructional Methods</b>	Face to Face with Online Enhanced

**Student Assignments**

1. Green Home design by Revit and Autodesk Cloud System for Energy Analysis – (50% evaluation of grade)
2. Quick Start Project – (10%)
3. Completion of Autodesk BPA online workshop (at least three courses) – (10 % of evaluation of grade)
4. Complete examination – knowledge and skills of Revit software through mid-term and final examination – (20% evaluation of grade)
5. Demonstration of professionalism, Online Meeting, Lab activities – (10% evaluation of grade)

**Course Schedule, Outline, and Assignments**

WEEK	Lecture Topic	Student Project	Textbook Section and Recommended Textbook Ch.	Assignment
WEEK 1	Introduction, Building Model	Quick Start, BPA	Syllabus, Section 1, Ch. 1, 2, 3	<b>Quick Start Project</b>
WEEK 2	Building Model	BPA, Revit	Ch. 4, 5,	<b>BPA</b> (at least three courses)
WEEK 3	Building Model	BPA, Revit	Section 2 and 3. Ch. 6, 7	<b>BPA</b>
WEEK 4	Building Model	BPA, Revit	Ch. 8, 9	<b>BPA</b>
WEEK 5	Building Model	BPA, Revit	Ch. 10, 11	<b>BPA</b>
WEEK 6	Building Model	BPA, Revit	Ch. 12	<b>BPA</b>
WEEK 7	Building Model	BPA, Revit	Ch. 13, 14	<b>BPA</b>
WEEK 8	Schematic Design	Green Home	Section 4 Ch. 17	<b>Mid-term Exam</b>
WEEK 9	Project Analysis (Schematic)	Green Home	Section 5, 6, and 7 TBA	<b>BPA, Green Home Design</b>
WEEK 10	Preliminary Design	Green Home	TBA	<b>BPA, Green Home Design</b>
WEEK 11 (W 12 No class)	Construction Documents	Green Home	TBA	<b>BPA, Green Home Design</b>
WEEK 13	Project Layout	Green Home	Section 8, 9, 10 TBA	<b>BPA, Green Home Design</b>
WEEK 14	Project Layout	Green Home	Ch. 15, 16	<b>BPA, Green Home Design</b>
WEEK 15	Project Analysis (Preliminary Design Level)	Green Home	Ch. 18	<b>BPA, Green Home Design</b>
WEEK 16	Rendering, 3D Model and Presentations	Class Presentation Final	n/a	<b>Student Presentation Final Exam BPA due</b>

**HCC Grading Scale:**

A = 100- 90	4 points per semester hour
B = 89 - 80:	3 points per semester hour
C = 79 - 70:	2 points per semester hour
D = 69 - 60:	1 point per semester hour
59 and below = F	0 points per semester hour
FX (Failure due to non-attendance)	0 points per semester hour
IP (In Progress) / W (Withdrawn)	0 points per semester hour
I (Incomplete) / AUD (Audit)	0 points per semester hour

**As your Instructor, it is my responsibility to:****Instructor's Requirements**

- Provide the grading scale and detailed grading formula explaining how student grades are to be derived
- Facilitate an effective learning environment through class activities, discussions, and lectures
- Description of any special projects or assignments
- Inform students of policies such as attendance, withdrawal, tardiness and make up
- Provide the course outline and class calendar which will include a description of any special projects or assignments
- Arrange to meet with individual students before and after class as required

**Program/Discipline Requirements: If applicable****To be successful in this class, it is the student's responsibility to:**

- Attend class and participate in class discussions and activities
- Read and comprehend the textbook
- Complete the required assignments and exams:
- Midterm Exam / Final Exam
- Ask for help when there is a question or problem
- Keep copies of all paperwork, including this syllabus, handouts and all assignments

Business Technology is determined to prepare students with the knowledge and skills needed to succeed in today's dynamic work environment. Students in Workforce Development with Critical Thinking must be able to budget their time and perform class-related activities as assigned on a weekly basis. Students also perform various general activities as well as workbook activities related to Workforce Development with Critical Thinking.

IP (In Progress) is given only in certain developmental courses. The student must re-enroll to receive credit. COM (Completed) is given in non-credit and continuing education courses.

FINAL GRADE OF FX: Students who stop attending class and do not withdraw themselves prior to the withdrawal deadline may either be dropped by their professor for excessive absences or be assigned the final grade of "FX" at the end of the semester. Students who stop attending classes will receive a grade of "FX", compared to an earned grade of "F" which is due to poor performance. Logging into a DE course without active participation is seen as non-attending. Please note that HCC will not disperse financial aid funding for students who have never attended class.

Students who receive financial aid but fail to attend class will be reported to the Department of Education and may have to pay back their aid. A grade of "FX" is treated exactly the same as a grade of "F" in terms of GPA, probation, suspension, and satisfactory academic progress.

To compute grade point average (GPA), divide the total grade points by the total number of semester hours attempted. The grades "IP," "COM" and "I" do not affect GPA.

*Health Sciences Programs Grading Scales may differ from the approved HCC Grading Scale. For Health Sciences Programs Grading Scales, see the "Program Discipline Requirements" section of the Program's syllabi.*

<b>Instructor Grading Criteria</b>	<b><u>Exams/Assignments</u></b>	<b><u>Points</u></b>
	Project (Green Home Design and Online Presentation)	50
	Project (Quick Start)	10
	BPA	10
	Mid-term Exam	10
	Final Exam	10
	Professionalism	10
	<b>Total</b>	<b>100</b>

**Scholastic Dishonesty**

**Students are responsible for conducting themselves with honor and integrity in fulfilling course requirements. College System Officials may initiate penalties and/or disciplinary proceedings against a student accused of scholastic dishonesty.**

**"Scholastic dishonesty" includes, but is not limited to, cheating on a test, plagiarism, and collusion.**

**"Cheating" on a test includes: Copying from another student's test paper; Using materials during a test that are not authorized by the person giving the test; Collaborating with another student during a test without authority; Knowingly using, buying, selling, stealing, transporting, or soliciting in whole or part the contents of an un-administered test; Bribing another person to obtain a test that is to be administered.**

**"Plagiarism" means the misuse of another's work and the deliberate incorporation of that work into work you offer for credit.**

**"Collusion" means the unauthorized collaboration with another person in preparing work offered for credit.**

**Determination of scholastic dishonesty will be at the discretion of the instructor. For additional information reference the HCC Web site at: <http://www.hccs.edu>**

**HCC Policy Statement:**

**HCC ADA STATEMENT (Services to Students with Disabilities)**

Any student with a documented disability (e.g. physical, learning, psychiatric, vision, hearing, etc.) who needs to arrange reasonable accommodations must contact the Disability Services Office at the respective college at the beginning of each semester. Faculty is authorized to provide only the accommodations requested by the Disability Support Services Office. For questions, please contact (713) 718-8397 or the Disability Counselor at your college. To visit the ADA Web site, please visit [www.hccs.edu](http://www.hccs.edu) then click on Information for... Students, scroll down the page and click on the words Disability Services.

**Southeast ADA Counselor:** Mr. John Reno, MA, CRC – Tel. (713)718-8397 or (713)718-7144

**Access Student Services Policies on their Web site:**

<http://www.hccs.edu/district/about-us/procedures/student-rights-policies--procedures/>

**EGLS3 --  
Evaluation for  
Greater Learning  
Student Survey  
System**

At Houston Community College, professors believe that thoughtful student feedback is necessary to improve teaching and learning. During a designated time near the end of the term, you will be asked to answer a short online survey of research-based questions related to instruction. The anonymous results of the survey will be made available to your professors and department chairs for continual improvement of instruction. Look for the survey as part of the Houston Community College Student System online near the end of the term.

**Distance Education and/or Continuing Education Policies**

**Access DE Policies on their Web site:** <http://de.hccs.edu/media/houston-community-college/distance-education/student-services/DE-Student-Handbook1.pdf>

**Access CE Policies on their Web site:** <http://www.hccs.edu/continuing-education/students/financialaid/continuing-education/>

***The instructor reserves the right to modify the syllabus during the semester.***