

Total Course Contact Hours	96.00
Course Length (number of weeks)	12 Weeks
Type of Instruction	Lecture and Lab
Course Description:	Use of architectural specific software to execute the elements required in designing standard architectural exhibits utilizing custom features to create walls, windows and specific design requirements for construction in residential/commercial and industrial architecture.
Course Prerequisite(s)	DFTG 1376. Must be placed into GUST 0341 in reading, ENGL 0300 or 0347 in writing and MATH 0306 in math.
Course Textbook	The Aubin Academy Revit Architecture, Author: Paul F Aubin, Publisher: G3B Press, ISBN-13: 978-0-692-47039-8
Recommended Course Textbook By The Instructor	The Aubin Academy Revit MEP 2015, Author: Paul F Aubin, Darryl McClelland, and Martin Schmid, ISBN-13: 978-1500435431
Academic Discipline/CTE Program Learning Outcomes	<ol style="list-style-type: none"> 1. Identify appropriate use and procedures of architectural design and construction specific software designing residential building. 2. Analyze building materials characteristics with energy efficiency, and application to the commercial building. 3. Participation to an educational workshop currently emphasized in the related industries. 4. Develop the application of aesthetic, functional, and technological aspect of building design activity.
Course Student Learning Outcomes (SLO): 4 to 7	<ol style="list-style-type: none"> 1. Laboratory work, Commercial Green Building for Architecture, MEP, and Structure – (50% evaluation of grade) 2. Whole Building Energy Analysis and Peak Load Building Thermal Load Determination – (10%) 3. Autodesk BPA online workshop (at least three courses) – (10 % of evaluation of grade) 4. Demonstration of knowledge and skills of Revit software through mid-term and final examination – (20% evaluation of grade) 5. Demonstration of professionalism through course activities, online discussions, and participations to the course work – (10% evaluation of grade)
Learning Objectives (Numbering system should be linked to SLO - e.g., 1.1, 1.2, 1.3, etc.)	<ol style="list-style-type: none"> 1. Comprehend the intermediate level of Revit software function and identify the building materials and construction method energy efficiency relevant to these functions. 2. Create a sustainable commercial building design with appropriate process and procedure, method, and technology. 3. Identify current industry emphasis of importance for building design and construction. 4. Demonstrate professionalism.
SCANS and/or Core Curriculum Competencies: If applicable	

Instructional Methods

Face to Face with Web Enhanced

Student Assignments

1. **Laboratory work, Commercial Green Building for Architecture, MEP, and Structure – (50% evaluation of grade)**
2. **Whole Building Energy Analysis and Peak Load Building Thermal Load Determination – (10%)**
3. **Autodesk BPA online workshop (at least three courses) – (10 % of evaluation of grade)**
4. **Demonstration of knowledge and skills of Revit software through mid-term and final examination – (20% evaluation of grade)**
5. **Demonstration of professionalism through course activities, online discussions, and participations to the course work – (10% evaluation of grade)**

Course Schedule, Outline, and Assignments

WEEK	Lecture Topic	Student Project	Study Resources.	Assignment
WEEK 1	Introduction,	Schematic Design	Syllabus,	Site Selection
WEEK 2	Design Process, Schematic Design	Schematic Design	Arch Textbook	BPA (at least three courses), Schematic Design
WEEK 3	Schematic Design and Energy Analysis	Schematic Design, Energy Analysis	Arch Textbook	BPA, Schematic Design
WEEK 4	Schematic Design and Presentation	Schematic Design, Presentation	Arch Textbook	BPA, Schematic Design
WEEK 5	Preliminary Design- Architecture	Preliminary Design - Architecture	Arch Textbook	BPA, Preliminary Design
WEEK 6	Preliminary Design-Arch and Structure	Preliminary Design – Arch and Structure	Arch Textbook	BPA, Preliminary Design
WEEK 7	Preliminary Design- Structure	Preliminary Design - Structure	Arch Textbook	BPA, Preliminary Design, Energy Analysis - Whole
WEEK 8	Preliminary Design – HVAC	Preliminary Design - HVAC	MEP Textbook	Mid-term Exam, Peak Thermal Load Calculation
WEEK 9	Preliminary Design - HVAC	Preliminary Design - HVAC	MEP Textbook	BPA, Preliminary HVAC Plan
WEEK 10	Preliminary Design - HVAC	Preliminary Design - HVAC	MEP Textbook	BPA, Preliminary HVAC Plan
WEEK 11	Construction Documents - Architecture	Construction Documents - Architecture	TBA	Construction Documents - Architecture
WEEK 12		Class Presentation Final	n/a	Student Presentation Final Exam BPA due
WEEK 13				
WEEK 14				

WEEK 15	TBA	TBA	TBA	Construction Documents - Architecture
WEEK 16				

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

Instructor's Requirements

As your Instructor, it is my responsibility to:

- 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

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

Program/Discipline Requirements: If applicable

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.

Instructor Grading Criteria	Exams/Assignments	Points
	Project (Commercial Green Building Design) and Presentation)	50
	Energy Analysis (Whole and Peak)	10
	BPA	10
	Mid-term Exam	10
	Final Exam	10
	<u>Professionalism and Online Discussions</u>	<u>10</u>
	Total	100

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 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/>

“Any student who faces challenges securing their food or housing and believes this may affect their performance in the course is urged to contact the Dean of Students for support. Furthermore, please notify the professor if you are comfortable in doing so.”

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