

**Computer Applications in Construction Management**  
**CNST 6360**

**Course Description**

This course introduces the application of Information Technology (IT) in the planning, organization, and control of construction projects. Topics include introductions to both well-established IT solutions and emerging trends, such as generic construction software, Excel spreadsheet tools, database management systems, and computation methods. Being a graduate-level course, the instructor will provide you with the guidance but be prepared to spend many hours solving various problems, designing conceptual systems, learning various software applications and reading extensive literatures that exist on the topics.

**Course Prerequisites**

Graduate standing or consent of instructor.

**Textbook**

Will be provided by the instructor.

**Schedule of Topics\***

No	Module/Topic
1	Course info
2	Course outline/instructor
3	IT in Construction
4	Excel for CM applications I
5	Excel application II Estimating & Bidding
6	Optimization and Excel
7	Conceptual Database Design using ER Diagram
8	Database Implementation in MS Access I & II

**Academic Honesty**

The instructor reserves the right to adjust letter grades, upward only, based on individual attendance and class participation if numerical grade warrants such consideration. Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and dismissal from The University. Since dishonesty harms the individual, all students, and the integrity of The University, policies on scholastic dishonesty will be strictly enforced.

**Students with Disabilities**

University of Houston provides, upon request, appropriate academic adjustments for qualified students with disabilities. Any student with a documented disability (physical or cognitive) who requires academic accommodations should contact the Center for Students with Disabilities (713/743-5400) for more assistance.

**Exam Policy**

Exams will include material covered in class discussions and homework assignments. Make-up exams will be given only in the event of a verified emergency or doctor-verified sickness. The student is responsible for all reading assignments and class handouts whether or not covered in class or listed on the syllabus.

**Course/Instructor Evaluation**

A course/instructor evaluation will be conducted in class during the last scheduled lecture. Any suggestions you have on improving the course, however, are welcome throughout the term.

For detailed information about Disabilities, Religious Holy Days, the Academic Calendar, and Academic Honesty, and other information, please visit the UH website:

[http://www.uh.edu/provost/stu/stu\\_syllabsuppl.html](http://www.uh.edu/provost/stu/stu_syllabsuppl.html)