

**RINKER SCHOOL OF CONSTRUCTION MANAGEMENT
UNIVERSITY OF FLORIDA
GAINESVILLE, FL 32611**

MANAGING CONSTRUCTION INFORMATION TECHNOLOGY

COURSE NUMBER: *ICM 6750*

NUMBER OF CREDIT HOURS: 3

Instructor: *R. Raymond Issa* (raymond-issa@ufl.edu)

Required Text:

Building Information Modeling: Applications and Practices
Issa, R. R. A. and Olbina, S. (2015), ASCE Press, Reston, VA.

Recommended References:

None

Course Description:

Applications of computer and information systems in the international construction industry. How information technology is developing and how it is dramatically affecting the structure process and performance of international construction projects.

Prerequisites:

None

Purpose of Course:

To show how information technologies can be used in the construction management process to improve productivity and to accomplish effectively construction project management goals across international borders.

Course Policies:

Assignment Policy:

Assignments are due as per the sequence detailed in the syllabus. All work turned in for this course is expected to be of professional quality in content and presentation.

Exam Policy:

The Final Exam has a 2-hour time limit which starts once you access the exam.

UF Policies:

University Policy on Accommodating Students with Disabilities:

Students requesting accommodation for disabilities must first register with the Dean of Students Office (<http://www.dso.ufl.edu/drc/>). The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation. You must submit this documentation prior to submitting assignments or taking

the quizzes or exams. Accommodations are not retroactive, therefore, students should contact the office as soon as possible in the term for which they are seeking accommodations.

University Policy on Academic Misconduct:

Academic honesty and integrity are fundamental values of the University community. Students should be sure that they understand the UF Student Honor Code at <http://www.dso.ufl.edu/students.php>. Although joint work on assignments may be acceptable in some cases, duplication of an assignment, both manually or by computer will be considered an act of academic dishonesty and dealt with accordingly. On all work submitted for credit by students at the university, the following pledge is either required or implied: **"On my honor, I have neither given nor received unauthorized aid in doing this assignment."**

Getting Help:

For issues with technical difficulties for E-learning in **Canvas**, please contact the UF Help Desk at:

- Learning-support@ufl.edu
- (352) 392-HELP - select option 2
- <https://lss.at.ufl.edu/help.shtml>

Grading Policies:

Assignments	Points
Assignment #01 - Technology Tips Applications	25
Assignment #02 – Advanced MS Word Tutorial	25
Assignment #03 - Computer Hardware Selection	25
Assignment #04 - Knowledge Application I – Communication Networks	75
Assignment #05 – Advanced MS Excel Tutorial	25
Assignment #06 - Knowledge Application II – e-Procurement	75
Assignment #07 – Advanced MS PowerPoint Tutorial	25
Assignment #08 - Knowledge Application III - SCM	75
Assignment #09 - MS Access Tutorial	50
Assignment #10 - Knowledge Application IV - KM	75
Assignment #11 - Knowledge Application V - BIM	100
Assignment #12 - Knowledge Application VI - EDM	75
Assignment #13 - Knowledge Application VII - NN	50
Term Paper	200
Comprehensive Final Exam (Request from Instructor)	200
Total	1100

Grading Scale:

Grades will be computed according to the following scale:

A=90 or above; A- =87-89.9; B=80-86.9; B- =77-79.9; C=70-76.9; C- =67-69.9; D=60-66.9; E<60.

Grade Values for Conversion										
Letter Grade	A	A-	B	B-	C	C-	D	D-	E, I, NG, S-U, WF	
Grade Points	4.0	3.67	3.00	2.67	2.00	1.67	1.00	0.67	0.00	

Course Syllabus:

Reading Assignments: Students are responsible for the contents of all reading assignments.

SUBJECT	
Module 1: Introduction & Information Technology Tips	
Assignment #1 - Technology Tips Applications	25 pts.
Module 2: WWW Docs, Web Internet Issues (Hosting/Security/Hackers) & Using Social Media	
Module 3: Learning MS Word & Intranets/Extranets	
Assignment #2 – Advanced MS Word Tutorials	25 pts.
Assignment #3 - Computer Hardware Selection	25 pts.
Module 4: Communication Networks & Network Cost	
Assignment #4 - Knowledge Application I – Communication Networks	75 pts.
Module 5: Advanced MS Excel & Technology @ Work I - e-Commerce/E-Business/e-Procurement	
Assignment #5 – Advanced MS Excel Tutorials	25 pts.
Assignment #6 - Knowledge Application II – eProcurement	75 pts.
Module 6: Advanced MS PowerPoint Multimedia Presentations & Technology @ Work II - SCM/BPM/CRM	
Assignment #7 – Advanced MS PowerPoint Tutorial	25 pts.
Assignment #8 - Knowledge Application III - SCM	75 pts.
Module 7: MS Access Database Development & Technology @ Work III – RD/KM/BI/KI	
Assignment #9 – MS Access Tutorial	50 pts.
Assignment #10 - Knowledge Application IV – KM	75 pts.
Module 8: Technology @ Work IV - VR/AR/BIM/ COBie	
Assignment #11 - Knowledge Application V - BIM	100 pts.
Assignment #12 - Knowledge Application VI - EDM	75 pts.
Module 9: Technology @ Work V - Toward a Smarter Web	
Module 10: Technology @ Work VI - Artificial Intelligence	
Assignment #13 - Knowledge Application VII – NN	50 pts.
Module 11: Technology @ Work VII - BIG Data and Ontologies and Semantics	
Term Paper	200 pts.
Final Exam - Request from raymond-issa@ufl.edu	200 pts.