# FLORIDA ATLANTIC UNIVERSITY

UGPC Approval
UFS APPROVAL
SCNS SUBMITTAL
CONFIRMED
BANNER POSTED
CATALOG

Graduate Programs—NEW	V COURSE PROPOSAL	CATALOG			
DEPARTMENT: CIVIL, ENVIRONMENTAL AND GEOMATICS ENGINEERING	COLLEGE: ENGINEERING AND COMP	UTER SCIENCE			
RECOMMENDED COURSE IDENTIFICATION:		EFFECTIVE DATE			
PREFIX CCE COURSE NUM	MBER 5036 LAB CODE (L or C) C	<ul><li>(日本の大阪の大阪の大阪の大阪の大阪の大阪の大阪の大阪の大阪の大阪の大阪の大阪の大阪の</li></ul>			
(TO OBTAIN A COURSE NUMBER, CONTACT MJENNIN	IG@FAU.EDU)	(mat term course will be offered)			
COMPLETE COURSE TITLE: Civil Engineering	Project Management				
CREDITS <sup>2</sup> : 3  TEXTBOOK INFORMATIO Halpin, D.W. (2006), Extensive use of hand	Construction Management, 3 <sup>rd</sup> Edition, Wiley	y			
GRADING (SELECT ONLY ONE GRADING OPTION):	REGULAR X SATISFACTORY/UNSATIS	FACTORY			
	LINES: This is a course in which planning, dent, cost estimating, conflict resolution and				
	PREREQUISITES*: NONE  COREQUISITES*: NONE  REGISTRATION CONTROLS (MAJOR, COLLEGE, LEVEL)*:  * PREREQUISITES, COREQUISITES AND REGISTRATION CONTROLS WILL BE ENFORCED FOR ALL COURSE SECTIONS.				
MINIMUM QUALIFICATIONS NEEDED TO TEACH TH	HIS COURSE: PHD IN CIVIL ENGINEERING OR CLOS	ELY RELATED FIELD			
Faculty contact, email and complete phone number:  Dr. Frederick Bloetscher, P.E.  Building 36, Room 219  Telephone: 561-297-0744  E-mail: h20 man@bellsouth.net or fbloetsc@fau.edu  Please consult and list departments that might be affected by the new of and attach comments.  No other departments affected.					
Approved by: Department Chair: College Curriculum Chair: College Dean: UGPC Chair:	Date: 9/29/14 9/29/14 10/11/14 10/14/14	<ol> <li>Syllabus must be attached; see guidelines for requirements:         www.fau.edw/provost/files/course syllabus.2011.pdf     </li> <li>Review Provost Memorandum:         Definition of a Credit Hour www.fau.edw/provost/files/Definition     </li> </ol>			
Graduate College Dean:	who sleep I 10-15-	Credit Hour Memo 2012.pdf			
UFS President:Provost:		Consent from affected departments     (attach if necessary)			

Email this form and syllabus to <u>UGPC@fau.edu</u> one week materials may be viewed on the UGPC website prior to the	c before the University Grade meeting.	duate Programs Commit	ee meeting so that
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Civil Engineering	Project Management CCE	3 credit hours		
,	5036			
2. Course prerequi	sites, corequisites, and who	ere the course fits in the program o	of study	
Prerequisite: None				
Co-Requisites: None	2.			
This is a course in w	hich planning, design, docui	ment preparation, bidding, bid tabu	lation, construction	
management, cost	estimating, conflict resolution	on and scheduling for civil engineeri	ng projects are covered.	
3. Course logistics				
Term: Fall 2014			- ver	
This is a classroom				
Class location and t	ime: Thurs. 7:10 pm – 10:00	o pm		
4. Instructor conta	ct information			
Instructor's name	Dr. Frederick Bloetscher, P	E, Mr. Albert Muniz, P.E.		
	Associate Professor			
Office address	Engineering West (EG-36)			
	Room 219			
Office hours				
Telephone no. Email address	239-250-2423	561-997-80704		
Email adaress	h2o_man@bellsouth.net	amuniz@hazenandsawyer.c		
5. TA contact info	mation	7 0111		
Not applicable				
6. Course descript	on		# 1 g 4 s	
The class meets tw	ice per week W 7:10-10 p.m.	p.m. The class will follow various as	pects of management of a	
		be used as the backdrop for homew	ork/project exercises.	
7. Course objective	es/student learning outcom	es/program outcomes		
Course objectives		nd discuss the processes by which ci	vil engineering projects are	
		and constructed.		
		nd develop scheduling and project n		
		nd develop skills for cost estimating,	, quantity takeoff and bidding	
	1	eering projects. design professionals and the const	ruction professions interact to	
	construct	- ·	roction professions interact to	
Student learning ou			, bid preparation and schedul	
& relationship to AE		by to prepare a project progress Report, bid preparation and schedule otable to a client (d, e, f, g, h, i, j, k)		
objectives	1			
-		function on multi-disciplinary teams (d, e, f, h, j, k)		
			ssues such as procurement of	

	1 1:11: 15 1 1 1 2	.1 1 .			
	work; bidding versus quality-based selection processes; how the design and				
	construction professions interact to construct a pro-	, , ,			
	economics, costs estimates, development of specificati	ons, bidding an			
	contract law (d, e, f, g, i)				
Relationship to program	elationship to program Outcome 1: An understanding of professional and ethical				
outcomes	responsibility.				
ž.	Outcome 2: A working knowledge of fundamentals,	Н			
	engineering tools, and experimental methodologies.				
	Outcome 3: An understanding of the social, economic, and	Н			
	political contexts in which engineers must function.				
	Outcome 4: An ability to plan and execute an engineering	Н			
	design to meet an identified need.				
	Outcome 5: An ability to function on multi-disciplinary teams.	Н			
	Outcome 6: An ability to communicate effectively.	Н			
	Outcome 7: Graduates will have a proficiency in the following	М			
	areas of civil engineering: (a) structural engineering, (b)				
	transportation engineering, (c) geotechnical engineering, and				
	(d) water resources/environmental engineering.				
	Outcome 8: Graduates will have an appreciation for the role of	Н			
	civil engineering in infrastructure planning and sustainability,				
	including hazard mitigation.				
	Outcome 9: Graduates will be successful in finding	Н			
	professional employment and/or pursuing further academic				
Del	studies.				

#### 8. Course evaluation method (note percentages subject to change)

Mid Term Exam	30%	Note: The minimum grade required to pass the course is C.
Final Exam	30%	
Final Report	30%	
Homework	10%	

#### 9. Course grading scale

Course grades are assigned according to the attached Department of Civil Engineering Grading Guidelines. Assignments and reports must be prepared according to the required formats (see attached documents: (a) Assignment Presentation and (b) Technical/Project/Laboratory Report Writing). Additional requirements may be given by the instructor. NOTE: you cannot pass the class if you fail both exams regardless of you grade.

#### 10. Policy on makeup tests, late work, and incompletes

Exams will be given only at the scheduled times and places. No one is exempt from the final examination. *Makeup tests* are given only if there is solid evidence of a medical or otherwise serious emergency that prevented the student of participating in the exam. Makeup exams will be administered and proctored by department personnel unless there are other pre-approved arrangements.

Late work is not acceptable.

*Incomplete grades* are against the policy of the department. Unless there is solid evidence of medical or otherwise serious emergency situation, incomplete grades will not be given.

Attendance to class is required. You are expected to attend and participate in all class sessions. Final grades will be reduced by one letter for every three (3) unexcused absences (as determined by the instructor).

#### 11. Special course requirements

#### none.

#### 12. Classroom etiquette policy

- Cell phones and beepers should have the ringers turned off as a courtesy to the instructor and your fellow classmates.
- 2. Computers must be closed and turned off in class
- 3. You can leave only on breaks
- 4. Exams will be given only at the scheduled times and places. No make-ups, except in documented emergencies. No one is exempt from the final examination.
- 5. Attendance to class is required. You are expected to attend and participate in all class sessions. Final grades will be reduced by one letter for every three (3) unexcused absences (as determined by the instructor). Attendance to at least one (1) professional meeting is required.
- 6. You are expected to complete the assigned reading prior to the date indicated on the class schedule, to do all homework assignments, and to participate fully in the group projects.
- 7. Assignments are due at the beginning of class on the date indicated on the assignment sheet.

University policy requires that in order to enhance and maintain a productive atmosphere for education, personal communication devices, such as cellular phones and laptops, are to be disabled in class sessions.

You are expected to complete the assigned reading prior to the date indicated on the class schedule, to do all homework assignments, and to participate fully in the group projects

#### 13. Disability policy statement

In compliance with the Americans with Disabilities Act (ADA), students who require special accommodations due to a disability to properly execute coursework must register with the Office for Students with Disabilities (OSD) located in Boca Raton campus, SU 133 (561) 297-3880 and follow all OSD procedures.

#### 14. Honor code policy

Consultation with your classmates on assignments is expected and encouraged; however what you turn in must be your own work. Representing the work of others as your own is unethical and may result in sanctions (see the FAU Policy on Academic Honesty). FAU is committed to a policy of honesty in academic affairs. The instructor's duty is to pursue any reasonable allegation, taking action where appropriate, as described in the appropriate section of the FAU Catalog (http://www.fau.edu/ug-cat/academic.htm#irregular) and the Florida Administrative Code. Please be advised that the copying of material from the world wide web or any other written material is considered plagiarism and is also a breach of the Honor Code.

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and place high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. See University Regulation 4.001 at <a href="https://www.fau.edu/regulations/chapter4/4.001">www.fau.edu/regulations/chapter4/4.001</a> Honor Code.pdf.

#### Florida Atlantic University

Regulation 4.001 Code of Academic Integrity

- (1) Purpose. Students at Florida Atlantic University are expected to maintain the highest ethical standards. Dishonesty is considered a serious breach of these ethical standards, because it interferes with the University mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Dishonesty is also destructive of the University community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility.
- (2) Definitions. The FAU Code of Academic Integrity prohibits dishonesty and requires a faculty member, student, or staff member to notify an instructor when there is reason to believe dishonesty has occurred in a

course/program requirement. The instructor must pursue any reasonable allegation, taking action where appropriate. Examples of academic dishonesty include, but are not limited to, the following:

#### (A) Cheating

- 1. The unauthorized use of notes, books, electronic devices, or other study aids while taking an examination or working on an assignment.
- 2. Providing unauthorized assistance to or receiving assistance from another student during an examination or while working on an assignment.
- 3. Having someone take an exam or complete an assignment in one's place.
- 4. Securing an exam, receiving an unauthorized copy of an exam, or sharing a copy of an exam.

#### (B) Plagiarism

- 1. The presentation of words from any other source or another person as one's own without proper quotation and
- 2. Putting someone else's ideas or facts into your own words (paraphrasing) without proper citation.
- 3. Turning in someone else's work as one's own, including the buying and selling of term papers or assignments. (C) Other Forms of Dishonesty
- 1. Falsifying or inventing information, data, or citations.
- 2. Failing to comply with examination regulations or failing to obey the instructions of an examination proctor.
- 3. Submitting the same paper or assignment, or part thereof, in more than one class without the written consent of both instructors.
- 4. Any other form of academic cheating, plagiarism, or dishonesty.

#### (3) Procedures.

(A) If the instructor determines that there is sufficient evidence to believe that a student engaged in dishonesty, the instructor will meet with the student at the earliest possible opportunity and provide notice to the student of the instructor's perception of the

facts, the charges against the student, and the sanction. The instructor may not remove the student from the course until the appeal process has come to a conclusion.

- (B) If, after this meeting, the instructor continues to believe that the student engaged in dishonesty, the instructor will provide the student written notice of the charges and the penalty. A copy of this statement shall be sent to the chair of the department or director of the school/program administering the course.
- (C) The student is entitled to an opportunity to be heard at a meeting with the instructor and chair/director to review and discuss the instructor's charges/statement. Such request for a meeting must be made in writing and received by the chair/director within five (5) business days of receipt of the instructor's charges/statement. The purpose of the meeting is to discuss the facts and to advise the student of the appeal process. The chair/director will provide the student, the instructor, and the dean of the college administering the course a summary of both the student's position and the instructor's position.
- (D) The student may appeal in writing to the dean of the college administering the course. The appeal must be received by the dean within five (5) business days of receipt of the chair/director's summary from the review meeting. The dean will convene a Faculty-Student Council ("Council"), which will be composed of the dean (or designee), two faculty members, and two students. The dean (or designee) will act as chair of the Council, direct the hearing, and maintain the minutes and all records of the appeal hearing, which will not be transcribed or recorded. The hearing is an educational activity subject to student privacy laws/regulations, and the strict rules of evidence do not apply. The student may choose to be accompanied by a single advisor, but only the student may speak on her/his own behalf. The student and instructor may present testimony and documents on his/her behalf. Additional witnesses may be permitted to speak at the dean's (or designee's) discretion and only if relevant and helpful to the Council. The Council will deliberate and make a recommendation to the dean to affirm or void the

instructor's findings of academic dishonesty. The dean (or designee) will inform the student and instructor in writing of his/her findings of academic dishonesty after receipt of the Council's recommendation.

- (E) The student may request an appeal in writing of the dean's findings of academic dishonesty to the University Provost (or designee) and include relevant documentation in support of such appeal. The University Provost (or designee) will notify the student, dean, and instructor of his/her decision in writing. This decision by the Provost (or designee) constitutes final University action.
- (F) If there is a finding that the Code of Academic Integrity has been violated, the chair will notify the University Registrar that the following notation be included on both the student's official transcript and on the student's internal record: "Violation of Code of Academic Integrity, University Regulations 4.001." If such violation is appealed and overturned, the dean or University Provost (or their designees) will notify the University

Registrar that such notation should be removed from the student's transcript and internal record.

- (4) Penalties.
- (A) The instructor will determine the penalty to be administered to the student in the course. Penalty grades cannot be removed by drop, withdrawal, or forgiveness policy. Students should be aware that, in some Colleges/programs, failure in a course or a finding of dishonesty may result in other penalties, including expulsion or suspension from the College/program.
- (B) In the case of a first offense, the student may elect to complete a peer counseling program administered by the Division of Student Affairs by the end of the semester following the semester in which the dishonesty occurred. Upon successful completion of this program, the notation regarding violation of the Code of Academic Integrity will be expunged from the student's official transcript. The grade, however, will remain unchanged and cannot be removed by drop or forgiveness policy. Also, the notation will remain in internal University student records.
- (C) In the case of a repeat offense, even if the notation of violation of the Code of Academic Integrity from the first offense had been expunged from the official transcript as a result of successful completion of the peer counseling program, the student will be expelled from the University.

Specific Authority: Article IX of the Florida Constitution, 1001.706, 1001.74 F.S., Board of Governors Regulations 1.001, 6.010, and 6.0105. History—New 10-1-75, Amended 12-17-78, 3-28-84, Formerly 6C5-4.01, Amended 11-11-87. Formerly 6C5-4.001. Amended 5-26-10

See University Regulation 4.001 at www.fau.edu/regulations/chapter4/4.001 Honor Code.pdf.

#### 15. Required texts/reading

First 2 textbooks are required for both semesters of Civil Engineering Design

- 1. Halpin, D.W. (2006), Construction Management, 3<sup>rd</sup> Edition, Wiley
- 2. Materials as needed for the design project development
- 3. Handouts provided by instructor
- 4. Blackboard registration

16. Supp	ementary	/recommend	ed	reading	as

none

17. Other

1. College of Engineering and Computer Science (COECS) Technology Services Group (TSG)

TSG provides support for students with issues related to the use of College computing resources such as lamp.cse.fau.edu, the student web server, and GENIE, the Citrix Remote Application Server. TSG also supports the Microsoft Developer Network Academic Alliance portal through which students taking courses in CEECS can obtain free copies of many software products from Microsoft. Details of these and other resources are described on the TSG web site at tsq.eng.fau.edu.

For support issues not covered on the web site students must send email to <a href="help@eng.fau.edu">help@eng.fau.edu</a>. TSG responds to help requests only through this email address. Do not attempt to phone them or contact them personally. TSG support is limited to assistance with COECS computing resources such as having your password on lamp reset. They do not handle specific course related questions. Those should be directed to the instructor for the course.

2. FAU Information Resource Management (IRM)

RM provides support for general computing and network issues at FAU. General information and many resources can be found on the IRM site, <a href="www.fau.edu/irm/index.php">www.fau.edu/irm/index.php</a>. IRM provides direct student through an online Help Desk at <a href="www.fau.edu/helpdesk/">www.fau.edu/helpdesk/</a>. The help desk includes extensive online support resources and a "Ticket" submission system for support requests. Areas of particular concern to students in this course covered by the Help Desk include general Blackboard, FAU NetId and network login, and FAU Google Email. The Help Desk can also be accessed by phone at (561) 297-3999. Phone access should generally be used only if you are unable to log in to FAU systems. For most other issues the phone consultant will simply record your concern and submit a help ticket on your behalf. The help ticket will get the same treatment as one you submit directly.

3. Çollege of Engineering and Computer Science (COECS) Division of Engineering Student Services (ESS)

ESS provides general advising and academic support for students in COECS including free tutoring support for all students in computer science courses. Additional information can be found on their web page at <a href="https://www.eng.fau.edu/engineering-student-services">www.eng.fau.edu/engineering-student-services</a>.

4. FAU University Center for Excellence in Writing (UCEW)

The UCEW, sometimes referred to simply as the Writing Center, provides assistance to students with writing assignments through consultants. They can assess student writing skills and suggest approaches to dealing with problem areas. The center web site is at <a href="https://www.fau.edu/UCEW/WC">www.fau.edu/UCEW/WC</a>.

Date	Topic	Assignment
Week 1 August 29	Introduction/Defining Project Mgmt Types of Organizations Design Procurement	
Week 2 Sept 5	Construction Contracts 16 Section of Construction Bonds	
Week 3 Sept 12	Project Planning Staffing the project Human Resources	
Week 4 Sept 19	Scheduling Pick Your Teams	
Week 5 Sept 26	QTO Cost Estimating	• Ed Small
Week 6 Oct 3	Catch-up/Estimating Discussion Review	
Week 7 Oct 10	Midterm Exam	
Week 8 Oct 17	Construction Sequencing Construction Methods	<ul> <li>Material Storage</li> <li>Laydown Area</li> <li>Sedimentation control</li> <li>Excavation</li> <li>Dewatering</li> <li>Cut and Fill</li> </ul>
Week 9	Presentation QTO	
Oct 24 Week 9 Oct 26	Construction Equipment  FE Exam	
Week 10 Oct 31	More Construction Sequencing Construction Methods	<ul> <li>Foundations</li> <li>Steel Erection</li> <li>Concrete</li> <li>Scaffolding \Tilt up</li> <li>Roof</li> <li>Grading/Paving</li> </ul>
Week 11 Nov 7	Draw Schedules/Variance Analysis Change Orders, Claims and Litigation	
Week 12 Nov 14	Safety Risk Considerations Review	
Week 13 Nov 21	Final Exam	
Week 14 Nov 28	NO CLASS - Thanksgiving	
Week 15 TBD Wed?	Final Presentation	
Week 16 Dec 12	Graduation	

**Presentation Rubric** 

					•	
		Excellent	Good	Fair	Poor	Unacceptable
V	Content	All team members	All team members	Majority of team	Some team members	No team members
		display professional	display professional	members display	display professional	display professional
		level of knowledge of	level of knowledge of	professional level of	level of knowledge of	level of knowledge of
		subject material with	subject material with	knowledge of subject	subject material with	subject material with
		no important content	minor amount of	material with minor	minor amount of	minor amount of
		left out and no	subject material left	amount of subject	subject material left	subject material left
		incorrect material	out or minor amount	material left out or	out or minor amount	out or minor amount
		presented.	of incorrect materials	minor amount of	of incorrect materials	of incorrect materials
			presented.	incorrect materials	presented.	presented.
				presented.		
•	Subject Matter	All important topics are	covered during the prese	ntation with no essential	elements missing or mis	represented.
•	Knowledge of	Each member of the tear	n demonstrates an unde	rstanding of the essentia	I topics presented.	
	Subject					
V	Organization	Presentation has a	Presentation has	Presentation has	Presentation has	Presentation is
		strong introduction, an	deficiencies in only	deficiencies in two of	deficiencies in all of	missing introduction,
		effective body of	one of the following:	the following:	the following:	body, or conclusion.
		material that supports	introduction, body,	introduction, body,	introduction, body,	
		the conclusions, and a	or conclusion.	or conclusion.	or conclusion.	
		strong ending.				
•	Introduction	Presentation starts stror	ng with scope and objecti	ves clearly presented.		
•	Continuity	Facts are presented in a l	logical sequence and trar	sitions effectively betwe	en speakers.	
•	Conclusion	Finishes strong with reas	sonable summary and/or	recommendations prese	nted, as justified from th	e body of the
		presentation.				
$\overline{\mathbf{V}}$	Delivery	Presentation is	Presentation has	Presentation has	Presentation has	Presentation is clearly
		effective in terms of	deficiencies in only	deficiencies in two of	deficiencies in all of	not rehearsed, visuals
		rhythm, visuals, and	one of the following:	the following:	the following:	are unprofessional,
		presenters' body	rhythm, visuals, and	rhythm, visuals, and	rhythm, visuals, and	and/or presenters'
		language.	presenters' body	presenters' body	presenters' body	body language is
			language.	language.	language.	unprofessional.
•	Rhythm	Presentation demonstrates effective use of time, presenters seem well-prepared, and appears rehearsed.				
•	Visuals	Visuals are effective, free	e of clutter, related to the	e discussion, and meanin	gful.	
•	Body Language	Presenters maintain eye	contact with the audience	ce and are free of any dis	tracting or annoying mar	nerisms.
	7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					

		Excellent	Good	Fair	Poor	Unacceptable
Ø	Discussion .	All questions are	Majority of questions	Some questions are	Only one question is	None of the questions
		fielded professionally,	are fielded	fielded	fielded	are fielded
		confidently, and	professionally,	professionally,	professionally,	professionally,
		correctly while	confidently, and	confidently, and	confidently, and	confidently, and
		avoiding defensive or	correctly while	correctly while	correctly while	correctly while
		argumentative	avoiding defensive or	avoiding defensive or	avoiding defensive or	avoiding defensive or
		responses.	argumentative	argumentative	argumentative	argumentative
			responses.	responses.	responses	responses
•	Question and Answer Session	Answers supplied reflect	an understanding of the	topic.		
☑	Overall Impression	Presentation addresses	Presentation	Presentation	Presentation	Presentation is
		all important subject	addresses most of the	addresses some of	addresses little of the	completely
		matter; demonstrates	important subject	the important subject	important subject	unprofessional.
		conceptual	material;	material;	material;	
		understanding of the	demonstrates	demonstrates	demonstrates	
		content, and responds	conceptual	conceptual	conceptual	
		to the purpose of the	understanding of the	understanding of the	understanding of the	E =
		report; slides are	content, and	content, and	content, and	
-		cohesive, clear,	responds to the	responds to the	responds to the	
		concise, and organized	purpose of the report;	purpose of the report;	purpose of the report;	
		well; presentation has	majority of slides are	some of the slides are	some of slides are	
		many strengths;	cohesive, clear,	cohesive, clear,	cohesive, clear,	
		delivery is	concise, and	concise, and	concise, and	1-
		professional; question	organized well;	organized well;	organized well;	
		and answers show	presentation has	presentation has few	presentation has	
		excellent engineering	strengths; delivery is	strengths; delivery is	requires major	
		judgment.	professional;	professional;	revision; delivery is	
			question and answers	question and answers	professional;	
			show good	show some	question and answers	
			engineering	engineering	show lack of	
			judgment.	judgment.	engineering	
		96	7	_ 0.1	judgment.	9