# FLORIDA ATLANTIC

# COURSE CHANGE REQUEST Graduate Programs

Department Civil, Environmental & Geomatics Engineering

UGPC Approval	
UFS Approval	
SCNS Submittal	
Confirmed	
Banner Posted	
Catalog	<del> </del>

UNIVERSITY	College College of E	ngineering & Computer Scier	Catalog
Current Course Prefix and Num	ber CEG 6105	Current Course Title Advanced Foundation En	gineering
	tached for ANY changes to d by the changes; attach d		lines. Please consult and list departments
Change title to:		Change descr	iption to:
Change prefix			
From:	To:	Change prere	quisites/minimum grades to:
Change course n	number	None	
From:	To:	Change coreq	uisites to:
Change credits* From:	To:	None Change regist	ration controls to:
Change grading			
From:	To:	<b>3</b> 1	
*Review Provost Mer	norandum	and include minin	g and new pre/corequisites, specify AND or OR num passing grade.
Effective Term/for Changes:	Year Fall 2019	Terminate co for Terminati	urse? Effective Term/Year on:
Faculty Contact/E	mail/Phone Ramesh Te	едауагари, 7-3444	
Approved by		HMM -	Date 1 1 2 1 C
Department Chair			3/1/2019
College Curriculum	Chair	man of the same of	
College Dean		Mandei	3/11/2019
UGPC Chair			
UGC Chair —			
Graduate College D	ean		
UFS President	· . == -7.10		
Provost			

Email this form and syllabus to UGPC@fau.edu one week before the UGPC meeting.

1. Course title/numbe	1. Course title/number, number of credit hours			
Advanced Foundation Engineering – CEG6105			3 credit hours	
2. Course prerequisites, co-requisites, and where the course fits in the program of study				
Prerequisites: None				
3. Course logistics				
Term: Fall 2018				
This is a classroom lect				
Class location and tim	e: FL 404 07	:10 PM - 10:0	00 PM (Lecture).	
4. Instructor contact i	nformation			
Instructor's name		Dr. Jamie Po	olidora, PE, CPM, LEED AP	
Office address		N/A		
Office Hours		N/A		
Contact telephone number		561-866-9189		
Email address		jfraser4@fau.edu		
5. TA contact information				
TA's name		N/A		
Office address				
Office Hours				
Contact telephone number				
Email address				
6. Course description				
Rigid and flexible earth retaining structures; shallow and deep foundations; laterally loaded piles, sheet-pile walls, braced excavations; cellular coffer-dams, buried culverts; consolidation settlement, stress distribution, elastic settlement, load bearing capacity, seepage and dewatering of foundation excavations.				
7. Course objectives/student learning outcomes/program outcomes				
Course Objectives	To provide students with knowledge of analysis of statically determinate			
	st	ructures		
	II. Deve	lop students' a	ability to determine internal forces of statically	
	in	determinate st	tructures by force method and displacement method	
	III. To un	derstand the ba	asics and use matrix method of structural analysis with	
	CC	mputer applic	eations	
	cc	omputer applic	ations	

Student learning	Ability to apply the principles of shear strength and settlement analysis for		
outcomes & relationship to ABET	foundation systems (1,2, 4)		
1-7 objectives	II. Ability to read and understand soil boring data for foundation design (1,2,4)		
	III. Ability to design shallow and deep foundations. (1,2,5)		
	IV. Ability to analyze and design earth retaining structures (1,2,4,5)		
8. Course evaluation	nethod		
Homework assignments and class participation: 10% Note: The minimum grade required to pass the			
Class attendance	5% course is C.		
Midterm examination	35%		
Final Examination:	50%		

# 9. Course grading scale

All Examinations will be closed book.

There are not any fixed criteria for the grading scale. The overall performance as related to course objectives and outcomes is evaluated and considered during grading.

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

Normally no make-up quizzes or examinations are given except in case of a medical or otherwise serious emergency that prevented the student from participating in the exam. Makeup exam would be administered and proctored by department personnel unless there are other pre-approved arrangements.

All completed homework assignments shall be submitted in hard copy format.Late submission of 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.

# 11. Special course requirements

None

# 12. Classroom etiquette policy

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.

#### 13. Attendance Policy

Students are expected to attend all of their scheduled University classes and to satisfy all academic objectives. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance.

Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations or participation in University-

approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

# 14. Disability policy statement

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at <a href="https://www.fau.edu/sas/">www.fau.edu/sas/</a>.

# 15. Counseling and Psychological Services (CAPS) Center

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to <a href="http://www.fau.edu/counseling/">http://www.fau.edu/counseling/</a>

#### 16. Code of Academic Integrity Policy Statement

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> Code of Academic Integrity.pdf

#### 17. Required texts/reading

1. Principles of Foundation Engineering, B. M. Das and N. Sivakugan, Ninth Edition, *Thomson*, 2016.

# 18. Supplementary/recommended readings

1. U.S. Navy Design Manual DM 7.02, Foundations and Earth Structures, Naval Facilities Engineering Command, Alexandria, VA, 1986.

19. Course topical outline, including dates for exams/quizzes, papers, completion of reading

Date	Topic	
August 20	Chapter 1: Introduction Chapter 2: Geotechnical Properties and Soil Exploration	

Soil Deposits and Subsoil Exploration  Day  Provement  Foundations; Ultimate Bearing Capacity  Stress Increase in Soil
Foundations; Ultimate Bearing Capacity
Foundations; Ultimate Bearing Capacity
Stress Increase in Soil
ent of Shallow Foundations <i>view</i>
oundations
oundations
-Shaft Foundations
l Earth Pressure
n's Day
ning Walls Pile Walls
d Cuts w
g Day
PM - 10:00 PM