



**FLORIDA
ATLANTIC
UNIVERSITY**

**COURSE CHANGE REQUEST
Graduate Programs**

Department Civil, Environmental & Geomatics Engineering

College College of Engineering & Computer Science

UGPC Approval _____
 UFS Approval _____
 SCNS Submittal _____
 Confirmed _____
 Banner Posted _____
 Catalog _____

**Current Course
Prefix and Number** CEG6124

Current Course Title
Soil Stabilization and Geosynthetics

Syllabus must be attached for ANY changes to current course details. See Guidelines. Please consult and list departments that may be affected by the changes; attach documentation.

Change title to:

Change description to:

Change prefix

From: **To:**

Change prerequisites/minimum grades to:

None

Change course number

From: **To:**

Change corequisites to:

None

Change credits*

From: **To:**

Change registration controls to:

Change grading

From: **To:**

*Review Provost Memorandum

Please list existing and new pre/corequisites, specify AND or OR and include minimum passing grade.

**Effective Term/Year
for Changes:** Fall 2019

**Terminate course? Effective Term/Year
for Termination:**

Faculty Contact/Email/Phone Ramesh Teegavarapu, 297-3444

Approved by

Department Chair _____

College Curriculum Chair _____

College Dean _____

UGPC Chair _____

UGC Chair _____

Graduate College Dean _____

UFS President _____

Provost _____

Date

02/26/2019

3/4/19

3/11/2019

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

GRADUATE COLLEGE

MAR 12 2019

Received



COLLEGE OF ENGINEERING & COMPUTER SCIENCE
Department of Civil, Environmental and Geomatics Engineering
777 Glades Road, Bldg. #96, 403E
Boca Raton, FL 33431
tel: 561.297.3444

Memorandum

DATE: March 22, 2019
TO: UGPC, Graduate College
FROM: Dr. Ramesh Teegavarapu, Professor and Graduate Program Director, Civil Environmental and Geomatics Engineering (CEGE)
SUBJECT: Requesting for changes in pre-requisites for multiple courses.

CEGE department is request the following changes in the catalog.

Advanced Foundation Engineering (CEG 6105) 3 credits
Existing: Prerequisites: CEG 4012.
Requested Change: Prerequisites: None

Pavement Analysis and Design (CEG 6129) 3 credits
Existing Prerequisites: CEG 3011C, CGN 3501C
Requested Change: Prerequisites: None

Finite Element Methods in Civil Engineering (CES 6119) 3 credits
Existing: Prerequisites: CEG 4012
Requested Change: Prerequisites: None

Airport Planning and Design (TTE 6526) 3 credits
Existing Prerequisites: Permission of instructor
Requested Change: Prerequisites: None

Soli-Stabilization and Geosynthetics (CEG 6124) 3 credits
Existing Prerequisites: CEG 3011C, CGN 3501C
Requested Change: Prerequisites: None

Water Supply Treatment (ENV 6418) 3 credits
Prerequisite: ENV 3001C
Requested Change: Prerequisites: None

WasteWater Engineering (ENV6507) 3 credits
Prerequisites: ENV 3001C
Requested Change: Prerequisites: None

Highway Engineering (TTE6815) 3 credits
Prerequisites: CEG 3011C, CWR 4202 and EGN 3331 or equivalent
Requested Change: Prerequisites: None

GRADUATE COLLEGE

MAR 25 2019

Received

**Department of Civil Environmental and Geomatics Engineering
Florida Atlantic University
Course Syllabus**

1. Course title/number, number of credit hours	
Soil Stabilization and Geosynthetics – CEG 6124	3 credit hours
2. Course prerequisites, corequisites, and where the course fits in the program of study	
Prerequisites: None	
3. Course logistics	
<i>Term:</i> Spring 2017 This is a lecture course. <i>Class location and time:</i> M: 7:10-10 PM; FL 401	
4. Instructor contact information	
<i>Instructor's name</i> <i>Office address</i> <i>Office Hours</i> <i>Contact telephone number</i> <i>Email address</i>	Dr. K. Sobhan, Professor Engineering West (EG - 36) Bldg., Room 221; EDU 481 (Spring 2018) T - R 11:00 - 12:00 PM 561 - 297 - 3473 ksobhan@fau.edu
5. TA contact information	
<i>TA's name</i> <i>Office address</i> <i>Office Hours</i> <i>Contact telephone number</i> <i>Email address</i>	N/A
6. Course description	
Soil chemistry, mineralogy and properties; techniques of soil reinforcement, soil improvement, and soil treatment; chemical stabilization; mechanical stabilization; designing with geosynthetics; foundations and pavement applications.	
7. Course objectives/student learning outcomes/program outcomes	
<i>Course objectives</i>	
<i>Student Learning Outcomes</i>	N/A
8. Course evaluation method	
Mid Term Exam: 30% Research Project: 30% Final Exam: 40%	<hr/> <i>Note:</i> The minimum grade required to pass the course is C.
9. Course grading scale	
There is no fixed criterion for the grading scale. The overall performance as related to course objectives and outcomes is evaluated and considered during grading. Results from course evaluations of the students will be normalized and letter grades are given. The instructor will explain the complete grading scheme and scale in the first class of the course.	

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10. Policy on makeup tests, late work, and incompletes
<p><i>Makeup tests</i> 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 exam should be administered and proctored by department personnel unless there are other pre-approved arrangements.</p> <p><i>Late work</i> is not acceptable.</p> <p><i>Incomplete grades</i> 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.</p>
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 statement
Students are expected to attend all of their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. 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 www.fau.edu/sas/ .
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 http://www.fau.edu/counseling/
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 an unfair advantage

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over any other. Academic 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. Harsh penalties are associated with academic dishonesty. For more information, see University Regulation 4.001. If your college has particular policies relating to cheating and plagiarism, state so here or provide a link to the full policy—but be sure the college policy does not conflict with the University Regulation.

17. Required texts/reading

Principles and Practice of Ground Improvement by Jie Han, ISBN: 978-1-118-25991-7, WILEY, 2015

18. Supplementary/recommended readings

Principles of Foundation Engineering, Eighth Edition, B. M. Das, Cengage Learning, 2014
Designing with Geosynthetics, by Robert M Koerner, Fifth Edn., Pearson, 2005
Ground Improvement, Ground Reinforcement, Ground Treatment, ASCE Geotechnical Special Publication 69, Edited by Vernon R. Schaefer, 1997
Reinforcement of Earth Slopes and Embankments, NCHRP 290, 1987
Soil Improvement – A 10 Year Update, ASCE Geotechnical Special Publication No. 12, 1987
Engineering Principles of Ground Modification, by M. R. Hausmann, McGraw Hill, 1990

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

- Week 1 Introduction
- Week 2 Ground Modification: Significance, Principles and Definitions
- Week 3 Fundamental Concepts in Soil Mechanics
- Week 4 Ground Modification: Methods and Mechanics
- Week 5 Chemical Stabilization
- Week 6 Mechanical Stabilization
- Soil Reinforcement: Mechanically Stabilized Earth (MSE)
- Week 7 Walls,
- Week 8 Mid-term
- Week 9 Fiber reinforced soil Ground Anchors
- Week 10 Designing with geosynthetics
- Week 11 Selected case histories
- Week 12 Selected Case histories, project presentations