FLORIDA

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	CEG 6129	Current Course Title Pavement Analysis and Design		
Syllabus must be attached that may be affected by th	d for ANY changes to he changes; attach d	to current course details. See <u>Guidelines</u> . Please documentation.	consult and list departments	
Change title to:		Change description to:		
Change prefix				
From:	To:	Change prerequisites/	minimum grades to:	
Change course numb	er	None		
From:	To:	Change corequisites to	:	
		None		
Change credits*				
From:	To:	Change registration co	ntrols to:	
Change grading				
From:	To:	Planes list suisting and new m	re/corequisites, specify AND or OR	
*Review Provost Memorano	dum	and include minimum passing		
Effective Term/Year for Changes:	Fall 2019	Terminate course? Effe for Termination:	ective Term/Year	
Faculty Contact/Email/	Phone Ramesh T	eegavarapu, 7-3444		
Approved by	(1)M1	oogavarapa, r o r r r	Date	
Department Chair	- UNO	1-1	3/8/19	
College Curriculum Chair		Muco	3/11/19	
College Dean	ll	Carder'	3/11/2019	
UGPC Chair				
UGC Chair ————				
Graduate College Dean			-	
UFS President				

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

Provost

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

1. Course title/number, num	ber of credit hours	
Pavement Analysis and Desig	n –CEG 6129	3 credit hours
2. Course prerequisites, core	quisites, and where th	e course fits in the program of study
Prerequisites: None		
3. Course logistics		
Term: Spring 2018 This is a lecture course with a Class location and time: T 7::		
4. Instructor contact informa	ation	
Instructor's name Office address Office Hours Contact telephone number Email address	Dr. K. Sobhan, Profess Engineering West (EG- T-R 11:00 -12:00 PM 561-297-3473 ksobhan@fau.edu	or 36) Bldg., Room 221; EDU 481 (Spring 2018)
5. TA contact information		
TA's name Office address Office Hours Contact telephone number Email address	ТВА	*
6. Course description		
	sis, AASHTO and Mec	ection in flexible and rigid pavements, materials nanistic design, non-destructive testing,
N. C. S.		an understanding of the stresses and strains in
Course objectives	pavement	3
	C. To underst	and materials properties as they relate to pavements
		e AASHTO design of flexible and rigid pavements ow to use mechanistic design software
Student learning outcomes & relationship to ABET a-k objectives	I. Ability to de II. Understand damage (a,l	esign flexible and rigid pavements (a,b,c,e,f,k) the concepts of resilient modulus and cumulative

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

	IV. Ability to ca (a,b,c,e,i,k	alculate stress/strain/deflection using design software (x)
8. Course evaluation method		
Mid Term Exam	25%	Note: The minimum grade required to pass the
Research Project Part A	15%	course is C.
Research Project Part B	15%	
Final Exam	35%	
Quizzes	10%	

9. Course grading scale

There is not any fix 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

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 exam should 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.

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. 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)—in Boca Raton, SU 133 (561-297-3880); in Davie, LA 203 (954-236-1222); or in Jupiter, SR 110 (561-799-8585) —and follow all SAS procedures.

14. Honor code policy

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 www.fau.edu/regulations/chapter4/4.001 Code of Academic Integrity.pdf

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15. Required texts/reading

Pavement Analysis and Design, 2nd Edition, Y. H. Huang, Prentice Hall, 2004

16. Supplementary/recommended readings

- 1. AASHTO Guide for Design of Flexible Pavements (1993)
- 2. Mechanistic-Empirical Pavement Design Guide (MEPDG), AASHTO 2004
- 17. Course topical outline, including dates for exams/quizzes, papers, completion of reading

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Date	Торіс		
Week 1: Topic 1	Historical Perspectives and Mechanistic Design Philosophies		
Week 2: Topic 2	2. Stresses and Strains in Flexible Pavements		
Week 3: Topic 3	3. Mechanistic / Computer Modeling of Pavement Systems		
Week 4: Topic 4	4. Traffic Volume and Loading		
Week 5: Topic 5	5. Material Characterization		
Week 6: Topic 6	6. Stresses and Strains in Rigid Pavements		
Week 7: Topic 7	7. AASHTO Flexible Pavement Design		
Week 8: Topic 8	8. AASHTO Rigid Pavement Design		
Week 9: Topic 9	9. Pavement Distresses and Performance		
Week 10: Topic 10	10. Pavement Rehabilitation		