#### FLORIDA ATLANTIC

# COURSE CHANGE REQUEST Graduate Programs

Department Civil, Environmental & Geomatics Engineering

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

AIMANIC		•	Banner Posted
UNIVERSITY	College College of Engineering & Computer Science  Catalog		
<b>Current</b> Course	her TTE 6526	Current Course Title	
Prefix and Num			
Syllabus must be at	tached for ANY changes to	current course details. See <u>Guidelines</u> . P.	lease consult and list departments
that may be affecte	d by the changes; attach do	cumentation.	
<b>61</b>			
Change title to:		Change description	i to:
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From:	To:	Channe manageriais	
			es/minimum grades to:
Change course i	umhar	None	
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From:	To:	Change corequisite	s to:
		None	
Change credits*			
From:	To:	To: Change registration controls to:	
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		and include minimum pas	
Effective Term/ for Changes:	Year Fail 2019	Terminate course? for Termination:	Effective Term/Year
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Faculty Contact/E	mail/Phone Ramesh Tee	egayarapu, 7-3444	
Approved by			Date / /
Department Chair			3/1/2019-
College Curriculum	Chair	Mul	_ 3/11/19
College Dean —	J	Marder	3/11/2019
UGPC Chair —			
UGC Chair			
Graduate College D	ean		
UFS President _		· · · · · · · · · · · · · · · · · · ·	
Drouget			

Email this form and syllabus to <a href="UGPC@fau.edu">UGPC@fau.edu</a> one week before the UGPC meeting.

### Florida Atlantic University Department of Civil Engineering

Instructor:	Aleksandar Stevanovic, Ph.D., P.E.			
	Office: 225 EG, Office Hours: Wednesday 10-12 AM; Thursday 9-11 AM			
	Telephone: 561-297-3743, E-mail: astevano@fau.edu			
Course	Airport Planning and Design (TTE 6526) 3 credits.			
Description	Room: CM 130 Day: Wednesday Time: 4:00-6:50 PM			
(including	Prerequisite: None			
prerequisites):	To provide the student with tools and methods to analyze and plan effectively airports. The			
prerequisites).	course will emphasize in the following issues: 1) technology of air vehicles related to			
	airport engineering, 2) operating principles and costs, and 3) airport planning and systems			
	analysis techniques.			
Course	I. Ability to conceptualize, and solve air-transportation problems.			
Objectives	II. Analyze and design airport facilities by identifying the parameters needed to			
•	perform this analysis.			
(what we will	III. To investigate different solution in air traffic management via class room			
do in this	discussion, problem sets and semester long project.			
class):	discussion, problem sets and semester long project.			
Course	A. Analyze the effect of airport environmental variables on aircraft			
Outcomes				
	operations.			
(what we	B. Estimate the capacity of any airport configuration and understand the			
expect you to	influence of weather, aircraft mix, and other operational parameters in			
learn):	capacity.			
	C. Estimate the delays at an airport given certain supply and demand			
	factors.			
	<b>D.</b> Analyze the noise impacts of aircraft in the vicinity of airports.			
	E. Estimate the economic benefits and impacts of airports in the			
	community.			
	F. Understand development of a master plan for an airport facility.			
	G. Use some of computer simulation software packages used in industry in			
	the planning and design of airports (i.e., SIMMOD).			
Textbook and	<ul> <li>"Planning and Design of Airports" (5th edition) by Horonjeff, McKelvey, Sproule, and</li> </ul>			
Other	Young (ISBN-10: 0071446419; ISBN-13: 978-0071446419) (mandatory).			
Required	Handouts provided by instructor.			
Materials:	Blackboard registration.			
Recommended	De Neufville, R., and A. Odoni, "Airport Systems – Planning, Design, and			
Optional	Management", McGraw-Hill, 2003.			
Materials:	Ashford, N., H.P. M., Stanton, and C. A. Moore, "Airport Operations", McGraw-			
Materials:	Hill, 2 <sup>nd</sup> edition, 1997.			
	<ul> <li>Wells, A.T., S.B., Young, "Airport Planning &amp; Management", McGraw-Hill, 5th</li> </ul>			
	• Wells, A.T., S.B., Young, "Airport Planning & Management", McGraw-Hill, 5" edition, 2004.			
Course	The class meets once per week for a 2-hour & 50-minute lecture. Homework assignments			
Structure and	are given periodically. Examinations consist of mid-term exam, final exam, and a			
	presentation on class project. The course requires the students to have some confidence in			
Approach:	computer literacy such as the use of spreadsheets, basic programming skills and			
	willingness to actively participate in a group learning environment. This course will also			
	test students' ability to write about topics of technical nature.			
	lesi stadents ability to write about topics of technical nature.			

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The course grade is based on the following components:  Class Participation 5%  Evaluation: 4 Assignments 25%				
Evolution:   Tr   1 A · A · A · A · A · A · A · A · A · A				
Tomework Assignments 2570				
Mid-term 20%				
Class Project 25%				
Final Exam 25%				
participation, homework assignments, and class project. The homework assignm follow the class lectures. The project will be defined later during the course and i individual effort or a group-based exercise. The emphasis will be on re	The grading of the course will be based on one mid-term exam, one final exam, class participation, homework assignments, and class project. The homework assignments will follow the class lectures. The project will be defined later during the course and it may be individual effort or a group-based exercise. The emphasis will be on real-world applications of the material covered in the class with a variety of computer applications of methods and techniques.			
Grade Range Grade Range				
A [93.34-100] C [73.34-76.67)				
A- [90.00-93.34) C- [70.00-73.34)				
B+ [86.67-90.00) D+ [66.67-70.00)				
B [83.34-86.67) D [63.34-66.67)				
B- [80.00-83.34) D- [60.00-63.34)				
C+ [76.67-80.00) F [0.00-60.00)				
Course 1. Cell phones and beepers should have the ringers turned off as a courtes	y to the			
Policies: instructor and your fellow classmates.				
	2. Department policy is to require class attendance. When in class, you are expected to			
, ,	participate in all class sessions. Exams will be given only at the scheduled times and			
exempt from the final examination.	places. No make-ups will be given, except in documented emergencies. No one is			
3. You are expected to complete the assigned reading prior to the date indicate				
	class schedule, to do all homework assignments, and to participate fully in the group			
	projects. Homework and other assignments will be submitted electronically through			
	your Blackboard accounts by midnight of the day when the assignment is due. <u>Late</u>			
assignments will not be accepted.				
4. Consultation with your classmates on assignments is expected and enc	,			
	however you must turn in 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, 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			
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Wide Web or any other written material is considered plagiarism and is also	a breach			
Of the Honor Code.  University Code of Academic Integrity and instructional policies can be found at following	website			
Policies: <a href="http://www.fau.edu/regulations/chapter4/4.001">http://www.fau.edu/regulations/chapter4/4.001</a> Code of Academic Integ  It is your responsibility to be familiar with these rules. In compliance with the Ar				
with Disabilities Act (ADA) students who require special accommodations of				
disability to properly execute coursework must register with the Office for Students				
	Disabilities (OSD) located in Boca, SU 133, (561) 297-3880, or in Davie, MD I (954) 236-			
1222, and follow all OSD procedures.	×			

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Lecture Schedule Class meets W 4:00 pm to 6:50 pm					
Week #	Topic Topic	Assignment Due	Textbook Reading		
1.	History of Airport Engineering		Chapter 1		
Jan 12			_		
2. Jan 19	Aircraft Technology & Airport Design		Chapter 2		
3. Jan 26	Guest Speaker	Assignment 1			
4. Feb 2	Air Traffic Management		Chapter 3		
5. Feb 9	Airport Master Planning & Forecasting		Chapters 4&5		
6. Feb 16	Airport Design	Assignment 2	Chapter 6		
7.	Structural Design of Airport Pavements&		Chapters 7&8		
Feb 23	Airport Lighting, Marking, and Signing		•		
8.	Mid-Term Exam	Assignment 3			
Mar 2					
9.	Spring Brake				
Mar 9					
10.	Airport Drainage & Airport Security		Chapters 9&11		
Mar 16					
11. Mar 23	Airport Terminal Planning & Design	Assignment 4	Chapter 10		
12.	Airport Airside Capacity Analysis		Chapter 12		
Mar 30					
13.	Airport Capacity & Simulation Models	Assignment 5	Chapter 12		
Apr 6					
14.	Airport Financing		Chapter 13		
Apr 13					
15.	Environmental Planning	Assignment 6	Chapter 14		
Apr 20					
16.	Class Project Presentations	Class Project			
Apr 27					
17.	Final Exam				
May 4					

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