

Graduate Programs—NEW COURSE PROPOSAL¹

UGPC APPROVAL UFS Approval _____ SCNS SUBMITTAL _____ CONFIRMED _____ BANNER POSTED

3. Consent from affected departments

(attach if necessary)

	01444400110	8			0 0 0 1 1	_	Catalog
	DEPARTMENT: CIVIL, E GEOMATICS ENGINEER		8	College: En	GINEERING AN	d Computer	SCIENCE
	PREFIX TTE (TO OBTAIN A COURSE NO COMPLETE COURSE TI	Course	NNING@FAU.E	DU)	CODE (L or (>)	EFFECTIVE DATE (first term course will be offered)
	GREBITO . 0	TEXTBOOK INFORMA Sons, 3th Edition, ISBN: 0139394966	2007	Public Transpo	rtation Syste	ems and Tec	hnology by Vuchic, V. V., John Wiley &
	transportation arer	, no more than thr na, the functional	EE LINES: DE ! relationsh	SIGNED TO OUTL	INE the prin bus and ra	ciples of the il transit, th	e transit systems in the urban ne issues associated with ilroad economics and policies.
	PREREQUISITES *: NON			ites*: None			ONTROLS (MAJOR, COLLEGE, LEVEL)*:
_	* PREREQUISITES, COREC						
	Faculty contact, email as EVANGELOS I. KAISAR, EG-190 (BLDG. 36), RO EKAISAR@FAU.EDU. 561-297-4084	PH.D. Assoc. Pro	FESSOR,	Please consult and comments. No other depart	New 200		nt be affected by the new course and attach
	Approved by: Department Chair: College Curriculum Ch College Dean: JGPC Chair: Graduate College Dear	ALAT.	Jan	leyo	Date: 9/2 9 2911 10/9		1. Syllabus must be attached; see guidelines for requirements: www.fau.edu/provost/files/course syllabus.2011.pdf 2. Review Provost Memorandum: Definition of a Credit Hour www.fau.edu/provost/files/Definition Credit Hour Memo 2012.pdf 3. Consent from affected departments

Email this form and syllabus to <u>UGPC@fau.edu</u> one week before the University Graduate Programs Committee meeting so that materials may be viewed on the UGPC website prior to the meeting.

Provost:

1. Course title/number, number of credit hours					
Sustainable Public Transport	ation – TTE 6651	3 credit hours			
2. Course prerequisites, core	2. Course prerequisites, corequisites, and where the course fits in the program of study				
Prerequisites: None					
3. Course logistics		o gradina de la compansión de la compans			
Term: Fall This is a classroom lecture course Class location and time: SP4: W 7:10 - 10:00 PM (Lecture) Tentative Exams will be given only at the scheduled times and places. No make-ups, except in documented					
emergencies. 15-minute quiz					
4. Instructor contact inform	ation				
Instructor's name Office address Office Hours Contact telephone number Email address	Dr. Evangelos I. Kaisar, Engineering West (EG- T-Tr: 1:00 -2:30 PM 561-297-4084 ekaisar@fau.edu				
5. TA contact information					
TA's name Office address Office Hours Contact telephone number Email address 6. Course description	ТВА				
	inciples of the transit	systems in the when transportation areas the			
DESIGNED TO OUTLINE the principles of the transit systems in the urban transportation arena, the functional relationships that govern bus and rail transit, the issues associated with unbalanced flow and lane control, transportation system management and the railroad economics and policies.					
7. Course objectives/student	learning outcomes/pr	ogram outcomes			
Course objectives	problems. II. Introduce the network desemble. III. Analyze and identifying the identifying the identifying the identifying the investigation.	conceptualize, and solve transit transportation et theoretical concepts of public transportation and ign. d design urban operations in the network by the parameters needed to perform this analysis. It different ideas in urban transportation via class sion, problem sets and semester long project.			

*	Course	Syllabus			
Student learning outcomes		understand the principles of transit syste	ms in the		
& relationship to ABET a-k		arena. (a, b, c, d, e, k)			
objectives		nderstand the functional relationships that of	Jovern bus		
	and rail transit				
	The second secon	nderstand the concepts of public transporta	tion.		
	(a, b, e, i, g, k)	-1			
		nderstand the concepts of unbalanced flow	and lane		
	E. control. (a, b, e	e, K) nderstand the transportation system manac	amont		
	The second of th		jement		
8	and the railroad economics and policies. (a, b, c, e, I, j, k) G. Experience working with peers in projects to deal with real world				
	problems. (a, b		i wond		
Relationship to program		erstanding of professional and ethical	High		
outcomes	responsibility.	and an entire and a sum and a sum as a	19		
		ing knowledge of fundamentals,	High		
	1	nd experimental methodologies.			
a a		erstanding of the social, economic, and	Low		
		which engineers must function.			
		ity to plan and execute an engineering	High		
	design to meet an id				
		ity to function on multi-disciplinary teams.	High		
		ity to communicate effectively.	High		
		tes will have proficiency in the following			
	The state of the s	ering: (i) structural engineering, (ii)	High		
		neering, (iii) geotechnical engineering, (iv)			
	water resources, and	d (v) environmental engineering.			
	Outcome 8: Gradua	tes will have an adequate appreciation for			
		neering in infrastructure planning and	Medium		
	15	ing safety, risk assessment, and hazard			
	mitigation.				
		tes will be successful in finding			
		ment and/or pursuing further academic	Medium		
	studies.				
8. Course evaluation method	d				
		1*			
Class Participation:	5%	Note: The minimum grade required to pas	ss the		
Homework Assignments:	10%	course is C.			
Quizzes:	5%				
Midterm Exam/Final Exam:	40%				
Class Project:	40%				
9. Course grading scale					
There is not any fix criteria for	r the grading scale. The	e overall performance as related to course o	biectives		
and outcomes is evaluated an			ojeen ves		
10. Policy on makeup tests,	late work, and incomp	pletes			
Makeun tests are given only	if there is solid eviden	ce of a medical or otherwise serious emerg	nency that		
		Makeup exam should be administered and			
		e-approved arrangements. As one worst q			

dropped, there will be no make-up quizzes.

Late work is not unacceptable.

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

- 1. 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 www.fau.edu/regulations/chapter4/4.001_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 citation.
- 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

- Vukan R. Vuchic "Urban Transit Operations, Planning and Economics", 3th Edition, John Wiley & Sons, 2007.
- 2. Handouts provided by instructor

16. Supplementary/recommended readings

- 1. Winston, W.I., "Operation Research, Applications and Algorithms", 4th Edition, Thomson,, 2006
- 2. Highway Capacity Manual, TRB Publication, Special report 209, 2000.
- 3. Manual on Uniform Traffic Control Devices for Streets and Highways, US Department of Transportation, FHWA 2010.
- John D. Fricker and Robert K. Whitford. "Fundamentals of Transportation Engineering. A Multimodal Systems Approach", 3th Edition, Prentice Hall, 2004.
- 4. Papacostas C., and Prevedouros P., "Transportation Engineering and Planning" Prentice Hall, 2008.
- 5. Law A., and Kelton WD., "Simulation Modeling and Analysis" Third Edition, Mc Graw Hill, 2000.
- 6. Lecture Notes; Software User Manuals.

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

Date		Торіс				
August	28		Administrative, Overview Goals and Introduction			
September	4	Chapter 1	Transit Systems Characteristics Transit System Development			
September	11	Chapter 1	Systems Analysis and Evaluation Project: Declaration of general area, tentative topic, and key references for term project (1/2-1 page)			
September	18	Chapter 2	Signs, Signal Principals and Warrants Vehicle Motion			
September	25	Chapter 3	Supply Analysis Project: Specific Topic, problem statement and initial work plan for term project (Presentation, 2 pages)			
October	2	Chapter 3	Supply analysis			
October	9	Chapter 3&5	Routes and Scheduled Introduction to location theory			
October	17	Chapter 4	Public Mass Transportation Review, Project: Literature review and detailed proposal for term project(5-8 pages)			
October	24		Field Trip/Project Study			

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October	31	Chapter 6	Public Transportation and Freight
November	6	Chapter 9	Paratransit and Specialized Modes Project: Progress report and preliminary results for term project (Presentation, 8-10 pages)
November	13	Chapter9	Urban System Characteristics
November	20	Chapter 10	Vehicle and Facilities Transportation Planning
November	27	Chapter 10	Transportation Planning Traffic Assignment – Review
December	4		Final Group Presentations/Paper Due for Term Project
December TBA			Final Exam: Take Home
December	13		Semester Ends