

FLORIDA ATLANTIC UNIVERSITY™

Graduate Programs—NEW COURSE PROPOSAL

UUPC APPROVAL _____
 SCNS SUBMITTAL _____
 CONFIRMED _____
 BANNER POSTED _____
 CATALOG POSTED _____
 WEB POSTED _____

DEPARTMENT NAME : CIVIL ENGINEERING

COLLEGE OF: ENGINEERING AND COMPUTER SCIENCE

RECOMMENDED COURSE IDENTIFICATION:

PREFIX TTE COURSE NUMBER XXXX LAB CODE (L or C) _____

**INSTRUCTIONAL METHOD
(V, BB, IC, EC, ETC.):**

COMPLETE COURSE TITLE **Urban Public Transportation**

EFFECTIVE DATE (first term course will be offered): SPRING 2009

CREDITS: 3

LAB/DISCUSSION: N/A

TEXTBOOK INFORMATION:
by Vuchic, V. V. 1981

Urban Public Transportation Systems
and Technology

LECTURE: 3

FIELD WORK: N?A

ISBN: 0-13-939496-6

GRADING: REGULAR PASS/FAIL _____ SATISFACTORY/UNSATISFACTORY _____

COURSE DESCRIPTION, NO MORE THAN 3 LINES: THIS CLASS IS 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.

PREREQUISITES:

SENIOR OR GRADUATE STATUS,
INSTRUCTOR PERMISSION REQ'D

Check box to enforce*

COREQUISITES:

NONE

Check box to enforce*

OTHER REGISTRATION CONTROLS (MAJOR, COLLEGE, LEVEL):

Check box to enforce*

MINIMUM QUALIFICATIONS NEEDED TO TEACH THIS COURSE: PHD IN CIVIL ENGINEERING/CONCENTRATION IN TRANSPORTATION, PLANNING


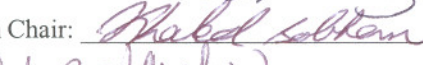
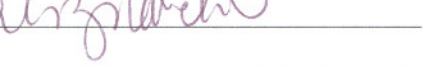
Other departments, colleges that might be affected by the new course must be consulted. List entities that have been consulted and attach written comments from each. None

EVANGELOS I. KAISAR, PH.D. ASST PROFESSOR, CIVIL ENGINEERING DEPT., EKAISAR@FAU.EDU. 561-297-4084

Faculty Contact, Email, Complete Phone Number

SIGNATURES

SUPPORTING MATERIALS

<p><i>Approved by:</i></p> <p>Department Chair: <u></u></p> <p>College Curriculum Chair: <u></u></p> <p>College Dean: <u></u></p> <p>UGPC Chair: _____</p> <p>Dean, Graduate Studies _____</p>	<p><i>Date:</i></p> <p><u>11/2/2007</u></p> <p><u>11/2/07</u></p> <p><u>11/2/07</u></p> <p>_____</p> <p>_____</p>	<p>Syllabus—must include course objectives.</p> <p>Written Consent—required from all departments affected.</p> <p>Go to: http://graduate.fau.edu/gpc/ to download this form</p>
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* "Enforce" prerequisites or other registration controls adds these restrictions to the course schedule; students whose academic careers do not show these prerequisites or other details will not be able to register. When box is not checked, restrictions show in catalog description only.

Email this form and syllabus to Graduate Studies one week **before** the University Graduate Programs Committee meeting so that materials may be viewed on the UGPC website by committee members prior to the meeting.

Florida Atlantic University
College of Engineering and Computer Science
Department of Civil Engineering

Urban Public Transportation

Description: This course is 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.

Course Number: TTE XXXX

Course Prerequisites: Transportation Engineering II (TTE 4005) or permission of instructor.

Course Co-requisites: None

Courses that require this course as a direct prerequisite: None

Specialization: Transportation system management, and public transportation

Special Features: Exposure to theoretical and experimental research in transportation arena

Credits: 3

Required Texts: Vuchic, V., "Urban Public Transportation" Prentice-Hall, 1981, **ISBN:** 9780139394966.

Recommended Texts: Wohl, M., and Hendrickson, C., "Transportation Investment and Pricing Principles, John Wiley, 1984.
Wright, P.H. and Ashford. N.J. 1989. "Transportation Engineering –Planning and Design." John Wiley and Sons, Inc.
Traffic Engineering Handbook, 4th Ed., ITE and Prentice Hall, 1992.
Gray, G., and Hoel, L., "Public Transportation" Prentice-Hall, 1992

Course Objectives: The objective of this course is to provide the students with basic and applied knowledge of transportation system management, transit, and public transportation. Specifically, the students completing this course will be able to:

- conceptualize, and solve transit transportation problems
- analyze and design urban operations in the network by identifying the parameters needed to perform this analysis
- investigate different ideas in urban transportation via class room discussion, problem sets and semester long project

Methods of Instruction: Regular Class with some internet activities using Blackboard

Topics: The lecture is based on a sequence of chapters from the textbook and will be supplemented with additional material where necessary including further references and instructor's notes.

- 1) Location theory, Transit system development
- 2) Transit system characteristics, basic microeconomics
- 3) Signs, Signals principal
- 4) Supply analysis
- 5) Bus transit, Rail Transit
- 6) Paratransit and specialized modes
- 7) Urban system characteristics

Schedule for Films/Videos/In-Class Discussions: N/A

Grading Scheme:	Homework:	10% (every two weeks)
	Project:	20%
	Mid-Term Exam:	40%
	Final Exam:	30%

Homework, Assignments and other out of Class Activities: One homework every two weeks

Grading Scale: A (95%-100%), A- (90%-94%), B+ (85%-89%), B (81%-85%), B- (76%-80%), C+ (71%-75%), C (67%-71%), C- (62%-66%), D+ (57%-61%), D (52%-56%), D- (45%-51%), F (below 45%)

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