



**Graduate Programs—NEW COURSE PROPOSAL**

UUPC APPROVAL \_\_\_\_\_  
 SCNS SUBMITTAL \_\_\_\_\_  
 CONFIRMED \_\_\_\_\_  
 BANNER POSTED \_\_\_\_\_  
 CATALOG POSTED \_\_\_\_\_  
 WEB POSTED \_\_\_\_\_

DEPARTMENT NAME : CIVIL, ENVIRONMENTAL AND GEOMATICS ENGINEERING COLLEGE OF: ENGINEERING AND COMPUTER SCIENCE

RECOMMENDED COURSE IDENTIFICATION:  
 PREFIX TTE COURSE NUMBER 6307 LAB CODE (L or C) C  
 COMPLETE COURSE TITLE : **Transportation and Supply Chain Systems**  
 EFFECTIVE DATE (first term course will be offered): **FALL 2012**

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

CREDITS: **3** LAB/DISCUSSION: **N/A** TEXTBOOK INFORMATION: Introduction to Logistics Systems  
 By Giani Gianpaolo, Laporte Planning and Control  
 Gilbert and Musmanno Roberto

LECTURE: **3** FIELD WORK: **N/A** ISBN: 0111562503

GRADING: REGULAR    **X** PASS/FAIL  SATISFACTORY/UNSATISFACTORY \_\_\_\_\_

COURSE DESCRIPTION, NO MORE THAN 3 LINES: This course is designed to outline the principles of the logistics systems, with emphasis on quantitative approaches for the design and control of freight transportation and supply chain systems. Students will learn about the components of logistics systems, decision support systems, freight transportation, and other topics.

<b>PREREQUISITES:</b> TTE 4005 OR INSTRUCTOR PERMISSION REQ'D <input type="checkbox"/> Check box to enforce*	<b>COREQUISITES:</b> NONE <input type="checkbox"/> Check box to enforce*	<b>OTHER REGISTRATION CONTROLS (MAJOR, COLLEGE, LEVEL):</b> <input type="checkbox"/> Check box to enforce*
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MINIMUM QUALIFICATIONS NEEDED TO TEACH THIS COURSE: **PHD IN CIVIL ENGINEERING WITH CONCENTRATION IN TRANSPORTATION**

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

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 Faculty Contact, Email, Complete Phone Number

**SIGNATURES**

**SUPPORTING MATERIALS**

<b>Approved by:</b> Department Chair: _____ College Curriculum Chair: _____ College Dean: _____ UGPC Chair: _____ Dean, Graduate Studies _____	<b>Date:</b> _____ _____ _____ _____	<b>Syllabus</b> —must include course objectives.  <b>Written Consent</b> —required from all departments affected.  Go to: <a href="http://graduate.fau.edu/gpc/">http://graduate.fau.edu/gpc/</a> to download this form
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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, Environmental and Geomatics Engineering*

### Course Syllabus

**Course name:** Transportation and Supply Chain Systems

**Course number:** TTE 6307 (3 cr.)

**Prerequisites:** Transportation Planning & Logistics (TTE 4005), or permission of instructor

**Co-requisites:** None

**Instructor:** Dr. Aleksandar Stevanovic, Assistant Professor  
Building 36-225  
561-297-3743  
[astevano@fau.edu](mailto:astevano@fau.edu)  
M – F 1:00 – 3:00 pm or by appointment  
[Blackboard@fau.edu](mailto:Blackboard@fau.edu)

**Course Logistics:** Fall 2012

**TA Contact:** TA: TBD

**Information:** **Office Hours:** TBD  
**Phone:** TBD  
**E-mail:** TBD

**Catalog Description:** This course is designed to outline the principles of the logistics systems, with emphasis on quantitative approaches for the design and control of freight transportation and supply chain systems.

Topics include:

- An introduction to the components of logistics systems.
- Models and techniques for the design and control logistics systems and the development of decision support systems.
- Case studies of applications of such techniques.

#### **Course Description, Objectives and Student Learning Outcomes:**

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: a) Conceptualize and solve transit transportation problems, b) Analyze and design urban operations in the network by identifying the parameters needed to perform this analysis, c) Investigate different ideas in urban transportation via class room discussion, problem sets and semester long project.

The course outcomes are:

- Understand the principles of transportation and supply chain management
- Understand the concepts of logistics
- Experience working with peers in projects to deal with real world problems.

**Course Evaluation Method:**

An overall course average will be computed for each student. The course average will combine scores from weekly homework assignments, six quizzes, one semester test, final exam and class project. Dates of semester tests will be announced on the first day of lecture. The weights assigned to each component of the final course average are given below.

**Grading scheme:** Grades will be based on a final course percentage. The final course percentage will be computed as follows:

Homework assignments	20%
Quizzes	0%
Class project(s)	20%
Semester exam(s)	30%
Final exam	30%

Assignments and projects may be submitted online. Online students are expected to take exams with the lecture section; distance learning students must arrange testing through the DEDECS office. Late assignments and projects will be accepted with penalty only until solutions have been posted. It is the student's responsibility to arrange for alternative testing dates. Late makeup exams will be administered only in documented cases of emergency.

**Grading criteria:** Final grades will be assigned using a grading scale no stricter than 90–100%: A, 85–90%: A-, 82–84%: B+, 78–81%: B, 75–77%: B-, 72–74%: C+, 68–71%: C, 65–67%: C-, 52–64%: D+, 48–51%: D, 45–47%: D-.

**Incomplete grades:** A grade of incomplete will be given only under documented, exceptional circumstances, and will be completed in the semester following its issuance.

**Classroom etiquette:** As this class is being recorded, it is important that students refrain from disruptive or distracting behavior. Also, it is a strict DEDECS policy that no food or drinks are allowed in the studio, and cell phones must be turned off.

**Students with disabilities:**

The Americans with Disabilities Act (ADA) guidelines will be followed. Any student with a documented disability which may require special accommodations should self-identify to the instructor as early as possible in order to receive

effective and timely accommodations.

**Academic integrity:** The Academic Integrity policy of the Department of Civil, Environmental and Geomatics Engineering will be enforced; refer to the Department web-site for further details: [www.cege.fau.edu](http://www.cege.fau.edu).

**Required text:** Ghiani Gianpaolo, Laporte Gillbert and Musmanno Roberto. "Introduction to Logistics Systems Planning and Control," Wiley, 2004.  
available on Blackboard.

**Supplementary texts:** Daganzo Carlos F., "Logistics Systems Analysis," 4th Edition, Springer-Verlag, Heidelberg. Germany, 2005.  
Simchhi-Levi David, Chen Xin, and Bramel J., "The Logic of Logistics," 2nd Edition Springer, New York, 2005.  
Harper, D., "Transportation in America", Prentice Hall, 1982.

**Topics covered:**

1. Supply Chain Engineering: 2 lectures
2. Forecasting: 2 lectures
3. Supply Chain Management: 2 lectures
4. Inventory Control: 2 lectures
5. Freight Transportation: 2 lectures
6. Network Design: 3 lectures
7. Auction: 2 lectures
8. Game Theory: 1 lectures

**Computer usage:** Extensive use will be made of CAD software, including MATLAB with the RF Toolbox, micro-meso simulation platforms, LINDO/LINGO, CPLEX/OPL, excel solver, and optimal solver online.. Some are available in downloadable student versions; all are available online and on the networked PC's in the CEGE's PC lab and transportation laboratory.