

**FAMU-FSU College of Engineering**  
**Department of Civil & Environmental Engineering**  
 Transportation Economics (TTE 5501)  
 Course Syllabus  
 Spring 2017

Course Number	Course Section	Course Title:	TTE 5501: Transportation Economics
Credit Hours: 3.0		Prerequisites: TTE3004 or equivalent	Semester: Spring 2017
Time: 09:30 AM – 10:51 AM		Days: Tuesday - Thursday	Location: TBD
Instructor Name: Dr. Eren Erman Ozguven		Office Location: Room A223	
Office Hours: Tuesday – Thursday 11:00 AM – 12:30 PM or by appointment			
Office Phone Number(s): (850) 410-6146		E-mail Address: <a href="mailto:eozen@fsu.edu">eozen@fsu.edu</a>	
Grading Assistant: NA			
Textbooks: Transportation Economics: Theory and Practice: A Case Study Approach. McCarthy, 2001. Transport Economics. Button, 2010. Transportation Engineering: Theory, Practice and Modeling. Teodorovic and Janic, 2017.			
Additional References:	Essays in Transportation Economics and Policy: A Handbook in Honor of John R. Meyer, Meyer, 1999. MATLAB for Engineers, Moore, 2011.		

**Class Description –** This class provides an introduction to transportation economics and financial aspects of transportation policy and planning, stressing the demand, supply and other economic issues. Microeconomics concepts that are critical for transportation systems will be extensively studied with a focus on the transportation demand and supply models, discrete choice analysis, cost models, traffic congestion and pricing.

- Class Objectives:**
1. To explain the key principles that guide economic analyses of transportation systems.
  2. To use this knowledge of economics while studying contemporary issues and problems.
  3. To use modern software while analyzing data, economic analysis, estimation and modeling for economics-focused transportation engineering applications.
  4. To describe the factors that influence the infrastructure investments and major transport projects that are critical to master the skills for economic evaluation of projects.

Course Grading Policy	<ol style="list-style-type: none"> <li>1. Homework Assignments: %30</li> <li>2. Projects: %35</li> <li>3. Final Exam: %25</li> <li>4. Discussion &amp; Participation: %10</li> </ol>
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<p>Topic Outline Plan</p>	<ol style="list-style-type: none"> <li>1. Introduction and Basic Concepts: 1 class</li> <li>2. Statistical Analysis: 2 classes</li> <li>3. Introduction to MATLAB: 2 classes</li> <li>4. Microeconomics: 2 classes</li> <li>5. Transportation Costs: 2 classes</li> <li>6. Transportation Demand and Supply: 4 classes</li> </ol> <p style="text-align: center;">Midterm Exam</p> <ol style="list-style-type: none"> <li>7. Congestion Pricing and Value of Time: 3 classes</li> <li>8. Transportation Planning and Forecasting: 3 classes</li> <li>9. Evaluation of Transportation Investment and Projects: 2 classes</li> <li>10. Economics in Freight Transportation: 2 classes</li> <li>11. Contemporary Issues in Transportation Economics: 2 classes</li> </ol> <p style="text-align: center;">Final Exam</p>
<p>Honor Codes and Policy of Cheating</p>	<p>Students are required to follow the code of their university. The relationship between students and instructors is based upon trust, and the continued maintenance of this trust is necessary for education to be successful. Students need to trust that the instructor has made appropriate judgments as to the content and structure of the course. Instructors need to trust that the work turned in by students represents their own effort. Violation of this trust undermines the educational process. Cheating is dishonest and it will not help anybody toward his/her final goal, which is to become a competent engineer. Cheating implies taking credit for somebody else's work. Cheating on exams and other acts of academic dishonesty will not be tolerated and will be dealt with at the instructor's discretion. Severe violations may (and will) be punished with a failing grade in the course. Please refer to student handbook of each university for more information.</p> <p>The Florida State University Academic Honor Policy outlines the University's expectations for the integrity of students' academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to “. . . be honest and truthful and . . . [to] strive for personal and institutional integrity at Florida State University.” (Florida State University Academic Honor Policy, found at <a href="http://fda.fsu.edu/Academics/Academic-Honor-Policy">http://fda.fsu.edu/Academics/Academic-Honor-Policy</a>.)</p>

<p>Students with Disabilities</p>	<p>The instructor will accommodate any student with a qualifying disability as defined in Section 504 of the Rehabilitation Act of 1973 and the Americans with Disability Act of 1990, and supported by a confirmation statement. Students with disabilities needing academic accommodations should: 1. Register with and provide documentation to the FAMU Office of Special Programs (OSP) or the FSU Student Disability Resource Center (SDRC), respectively. 2. Bring a letter to the instructor from OSP/SDRC indicating a need for academic accommodations. This should be done within first week of class.</p> <p>Students with disabilities needing academic accommodation should:  (1) register with and provide documentation to the Student Disability Resource Center; and  (2) bring a letter to the instructor indicating the need for accommodation and what type. This should be done during the first week of class.</p> <p>This syllabus and other class materials are available in alternative format upon request.</p> <p><i>For more information about services available to students with disabilities, contact:</i></p> <p><i>1. FAMU students:</i></p> <p><i>Center for Disability Access and Resources</i>  667 Ardelia Court  Florida A &amp; M University  Tallahassee, FL 32307  <a href="tel:8505993180">(850) 599-3180</a> (voice)  <a href="tel:8505612783">(850) 561-2783</a> (TDD)  <a href="mailto:CEDAR@famu.edu">CEDAR@famu.edu</a></p> <p>EMAIL: CEDAR@famu.edu  PHONE: 850-599-3180  FAX: 850-561-2513  TDD: 850-561-2783</p> <p><i>2. FSU students:</i></p> <p><i>Student Disability Resource Center</i>  874 Traditions Way  108 Student Services Building  Florida State University  Tallahassee, FL 32306-4167  <a href="tel:8506449566">(850) 644-9566</a> (voice)  <a href="tel:8506448504">(850) 644-8504</a> (TDD)  <a href="mailto:sdrc@admin.fsu.edu">sdrc@admin.fsu.edu</a>  <a href="http://www.disabilitycenter.fsu.edu/">http://www.disabilitycenter.fsu.edu/</a></p>
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<p>University Attendance Policy</p>	<p>Excused absences include documented illness, deaths in the family and other documented crises, call to active military duty or jury duty, religious holy days, and official University activities. These absences will be accommodated in a way that does not arbitrarily penalize students who have a valid excuse. Consideration will also be given to students whose dependent children experience serious illness.</p>												
<p>General Course Policy</p>	<ol style="list-style-type: none"> <li>1. The due date for each exam, homework, and project reports will be announced in advance.</li> <li>2. Late assignments and project reports will not be accepted.</li> <li>3. All the exams will be open book, open notes.</li> <li>4. Homeworks and projects will be individual efforts.</li> <li>5. Discussion and participation will be graded based on the class attendance and relevant class discussions of the lecture material that will be available ahead of time.</li> <li>6. Final grading criteria:</li> </ol> <table border="1" data-bbox="675 751 1284 961" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Final grade scale**, %</th> <th>Final grade</th> </tr> </thead> <tbody> <tr> <td>90-100</td> <td>A</td> </tr> <tr> <td>80-89</td> <td>B</td> </tr> <tr> <td>70-79</td> <td>C</td> </tr> <tr> <td>60-69</td> <td>D</td> </tr> <tr> <td>&lt;60</td> <td>F</td> </tr> </tbody> </table> <p>**The course instructor reserves the right to relax the final grading scale.</p>	Final grade scale**, %	Final grade	90-100	A	80-89	B	70-79	C	60-69	D	<60	F
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<p>Syllabus Change Policy</p>	<p>Except for changes that substantially affect implementation of the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advanced notice (two weeks advance).</p>												
<p>Free Tutoring from FSU</p>	<p>On-campus tutoring and writing assistance is available for many courses at Florida State University. For more information, visit the Academic Center for Excellence (ACE) Tutoring Services' comprehensive list of on-campus tutoring options at <a href="http://ace.fsu.edu/tutoring">http://ace.fsu.edu/tutoring</a> or contact <a href="mailto:tutor@fsu.edu">tutor@fsu.edu</a>. High-quality tutoring is available by appointment and on a walk-in basis. These services are offered by tutors trained to encourage the highest level of individual academic success while upholding personal academic integrity.</p>												