

## Course Profile

### Department of Management / International Logistics Management Program

Course Number: MAN 403	Course Title: Sustainable Transport and Logistics Systems
Required / Elective: Elective	Pre / Co-requisites: -
Catalog Description: Introduction to the major environmental issues in contemporary transport and logistics operations including climate change, regional and local air pollution, noise pollution and safety. Major trends working against sustainability and the range of regulatory, behavioural, pricing, and voluntary strategies available for reversing these trends The basics of transport and logistics emissions monitoring, reporting by companies and local authorities.	Textbook / Required Material:  Global Logistics Management: A Competitive Advantage for the 21st Century, 2nd Edition, Kent Gourdin (College of Charleston) ISBN: 978-1-4051-2713-4 December 2005, ©2006, Wiley-Blackwell
Course Structure / Schedule: <b>(3+0+0) 3 / 6 ECTS</b>	
<p>Extended Description:</p> <p>This course provides a comprehensive overview of the basics of freight transport and logistics emissions monitoring, accounting and reporting by companies and local authorities. The course will cover all major aspects of transport &amp; logistics and also introduces students to the major environmental issues that must be considered in contemporary transport and logistics operations including climate change, regional and local air pollution, noise pollution and safety. The focus then turns to specific modes, focusing initially on passenger transport, where we identify the major trends working against sustainability and the range of regulatory, behavioural, pricing, and voluntary strategies available to try to reverse these trends.</p>	
Design content: None	Computer usage: None
<p>Course Outcomes:</p> <p>By the end of this course, students will be able to:</p> <ol style="list-style-type: none"> <li>1. Understand transport planning for a sustainable city development with an approach to urban design from a social, economic and environmental point of view.</li> <li>2. Define and relate to different urban transportation systems</li> <li>3. Explain and characterize the sustainable transportation planning paradigm</li> <li>4. Analyze different transportation modes from a sustainable development viewpoint</li> <li>5. Identify and analyse the prevalent contemporary sustainable transportation theories and techniques, their applications and shortcomings</li> <li>6. Understand how land use development can influence travel behavior</li> <li>7. Apply transportation demand management principles to different spatial settings</li> <li>8. Distinguish the successful features of innovative transportation planning schemes</li> </ol>	
<p>Recommended reading:</p> <ul style="list-style-type: none"> <li>- Introduction to Logistics Systems Planning and Control Gianpaolo Ghiani, Gilbert Laporte, Roberto Musmanno ISBN: 978-0-470-84916-3 November 2003</li> </ul>	
<p>Teaching methods:</p> <p>Lectures, case studies, quizzes, midterm and final exam</p>	

**Assessment methods:**

Midterm exam : %40

case studies/quizzes : %20

final exam : %40

**Student Workload/ECTS (European Credit Transfer System) Tableau:**

Activity:	Number:	Duration (hour):	Total Workload (hour):
Pre- reading	14	4	56
Lectures	14	3	42
Quizzes	3	3	9
Case studies	3	4	12
Midterm	1	16	15
Final Examination	1	17	16

TOTAL: 150 hours / 25 = 6 ECTS

Prepared by: Staff

Revision Date: 21.06.2012