**Course Description:**

This course serves as an introduction to transportation security. The objectives of the course are as follows:

1) To provide an understanding of the importance of transportation in human activity in historical and contemporary contexts;

2) To identify the major modes of transportation and their general characteristics and to understand the role each plays in the broader context of human activity;

3) To identify and understand elements associated with protecting transportation infrastructure and cargo, to include regulations; industrial practices; cargo screening equipment; personnel, physical, and procedural security requirements; and new security technologies;

4) To identify the major transportation industry and government institutions responsible for addressing transportation security issues, and to understand the role each plays in shaping transportation security policies and procedures;

5) To identify and understand key concepts and methods used by transport planners and/or policy-makers in addressing transportation security issues;

6) To assess and understand transportation security vulnerabilities from a geographic, transport planning, and/or policy perspective, as well as identify and understand current international security threats, countermeasures, and potential future security concerns.

**Readings**

Readings will be provided through Canvas/Carmen.

Material covered each week is based on the units identified in the Course Notes.
Course Overview

The following is a general overview of the contents of each section. It is subject to adaptation to suit the amount of material in each module. Generally each module is two lectures.

Week #1: Unit 1 Introduction to Transportation Geography and Transport Security
Week #2: Unit 2 Transport and Development of Networks
Week #3: Unit 3 Special nodes in networks – hubs and gateways
Week #4: Unit 4 Network failure and resilience

- Midterm #1 (Feb 6, in class)

Week #5: Unit 5 Modes
Week #6: Unit 6 Policy and Planning for Safety and Risk
Week #7: Unit 7 People and behavior in transport access
Week #8: Unit 8 Places and security (critical infrastructure)

- Midterm #2 (Mar 8, in class)

Week #9: Unit 9 Viewing transport security as a system
Week #10: Unit 10 Simulation to represent evacuation and other security issues
Week #11: Unit 11 Introduction to cost benefit assessment
Week #12: Unit 12 Threats and response (prepare report)
Week #13: Unit 13 Response and recovery for critical infrastructure protection

- Final

Course Notes:

There will be two mid-terms and one final exam covering the following sections:

Mid-term #1: Covers Units 1-4 (see above) from the Course Notes; lectures, and any additional assigned readings

Mid-term #2: Covers Units 5-8 (see above) from the Course Notes; lectures, and any additional assigned readings

Final Exam: Covers Units 9-13 (see above) from the Course Notes; lectures, class room presentations by teams, and any additional assigned readings
**IMPORTANT NOTE:** Students missing a scheduled exam (mid-term or final) will be required to provide sufficient documentation before he/she may be allowed to take a make-up exam. Students failing to provide sufficient documentation for a missed exam will result in a score of zero for that exam.

The following is a list of exams, exercises, and other assignments with their corresponding point total and percentage of the final grade:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Due Date</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Writing Assignment #1</td>
<td>Feb 1, 11:59pm</td>
<td>10%</td>
</tr>
<tr>
<td>Mid-term #1:</td>
<td>Feb 6, in class</td>
<td>20%</td>
</tr>
<tr>
<td>Writing Assignment #2</td>
<td>Mar 6, 11:59pm</td>
<td>10%</td>
</tr>
<tr>
<td>Mid-term #2:</td>
<td>Mar 8, in class</td>
<td>20%</td>
</tr>
<tr>
<td>Security Team Report:</td>
<td></td>
<td>10%</td>
</tr>
<tr>
<td>Security Report map or visuals:</td>
<td></td>
<td>5%</td>
</tr>
<tr>
<td>Class Participation/Other Assignments:</td>
<td></td>
<td>5%</td>
</tr>
<tr>
<td><strong>FINAL</strong></td>
<td>Thurs April 26 2pm - 3:45pm in classroom:</td>
<td>20%</td>
</tr>
</tbody>
</table>

**Important Due Dates/ Other Dates:**

Spring break, March 12-16.

**Course Expectations:**

Class attendance is important, and a failure to attend class on a regular basis will impact your final grade. Students are encouraged to ask questions and to visit office hours. Carmen will be used to receive homework, and the due dates and time will be given in class.

**Student Conduct Policy:**

Plagiarism and other forms of cheating will not be tolerated. Please consult the Code of Student Conduct at [http://studentaffairs.osu.edu/resource_csc.asp](http://studentaffairs.osu.edu/resource_csc.asp). University rules provide severe penalties for academic misconduct, ranging from course failure to dismissal from the University. University Rules can be found in the “University Survey – A Guidebook and Readings for New Students” handbook. Any questions about this policy, or your grade, should be brought directly to the attention of the instructor.

**Other Policies:**

It is university policy to provide reasonable accommodations to students with physical, mental, or learning disabilities. To request such accommodations contact the Office for Disability Services in 150 Pomerene Hall at 292-3307. Once certified, present the relevant information to the instructor in a timely manner.

Late material -- material received after a deadline drops 20% of the available points each day. The deadline will be time stamped on CARMEN. Manage your time to avoid last minute technical issues.
Exams:

The mid-term and final exams will consist of a combination of multiple choice/true-false questions, matching questions, and short-answer and/or essay questions. Exams will be based on material covered in the course notes, lecture, and supplemental material provided by the instructor and classroom presentations. Each exam (mid-terms and final) is worth 20% of the grade.

1) Writing Assignments:

There will be two (2) short writing assignments that students will be required to complete as part of the course on topics provided by the instructor. Each assignment is worth 100 points (200 points total). Guidelines will be given by the instructor on the structure, content, and format for the writing assignments.

2) Security Report:

Students will be required to write a short report on a topic provided by the instructor. Guidelines will be given by the instructor on the structure, content, and format for the report. The topic report is worth 100 points.

3) PowerPoint Presentation:

Students will be required to create and submit a Story Map or a PowerPoint presentation summarizing the content of the short report. The PowerPoint presentation is worth 50 points. Guidelines will be given by the instructor on the content of the PowerPoint presentation.

Class Participation/Other Assignments:

In addition to the exams and group activities, students will be assessed on other activities. These activities may be based on classroom questions and answers, classroom discussion, in-class exercises/quizzes, or other activities/exercises done outside of class.

Writing Assignment #1 – Transportation Incident News Report (Preview)

For the first writing assignment, you will be required to write and submit a paper on a recent transportation security incident as reported in the news. Transportation security incidents can be varied, but it is best to stick to terrorist attacks directed at transportation related targets (airports, train stations, subways, etc.). The new report should be fairly recent (within the last 3 years) and come from a reliable and well-documented source.

The paper should be between 2-3 pages in length, double-spaced typed, and include a reference page (not included in the 2-3 page length) – properly formatted – indicating the source(s) reporting the transportation incident. The paper must include the following information:

- Summary of the incident – what occurred, how it happened, when and where it took place, what kind of damage/casualties, who was involved/responsible for incident, etc.

- Analysis of the strengths and/or weaknesses of the security measures that existed prior to the
incident taking place. This can be a summary of someone else’s analysis (be sure to include proper citation if so) or your own (be sure to indicate that the analysis is your own). Recommendations on the security measures that 1) have been (or will be) undertaken.

The final exam is Thursday April 26th 2pm-3:45pm in the regular classroom.