Objectives:

Cultivate an appreciation for the highway safety problem, and a passion for doing something about it. Gain proficiency in the following 5 “core competency” areas recommended by the Transportation Research Board:

1. The Nature of Road Safety
2. The History and Institutional Settings of Road Safety Management
3. The Origins, Characteristics, and Uses of Crash Data
4. Contributing Crash Factors, Countermeasure Selection, and Evaluation
5. Road Safety Program Management

Understand contemporary highway safety issues in an academic context by reading and critiquing scholarly literature on the subject as well as navigating the landscape of technical resources on the subject.

Outcomes Relevant to Accreditation:

(d) An ability to function in multi-disciplinary teams
(g) An ability to communicate effectively

Text:


Additional relevant material:


Additional reading material will be provided in class. I attached a partial list of documents relevant for this course. Additional references will be provided during class.

**Topics:**
- Introduction
- Highway Safety Trends/Demographics
- Roadway Users
- Vehicles
- Facilities
- Working with Crash Data
- Road Safety Audits
- Countermeasures/Traffic Control Devices
- Pedestrian Safety

**Grading:**

- Homework: 25%
- Class Participation 15%
- Exam 1: 15%
- Exam 2: 15%
- Presentation 1: 15%
- Presentation 2: 15%

**Grading Scale:**(CE493/CE538)

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**Presentation Assignments**

- Presentation 1: October 2, 4
- Presentation 2: November 6,8
In this class you will make two 20 minute professional quality presentations, each on a topic or issue of your choice related to highway safety, subject to instructor approval. You may make an appointment with me or email me to help you select a topic.

Below is a suggested format:

4-5 minutes motivating/introducing the topic

5-6 minutes summarizing the state of the practice

5-7 minutes summarizing research from academic literature

4-5 minutes conclusions

You will work in teams of four. Your team for Presentation 2 must be different from that of Presentation 1.

Your presentation will represent a synthesis of your topic, thus you will demonstrate knowledge of the topic through comprehensive research and engage in synthesis and critical thinking regarding the topic/issue (see http://users.drew.edu/~sjamieso/Synthesis.htm for a better understanding of a synthesis). You will be graded on the following attributes:

- Technical merit and depth
- Synthesis and Critical thinking
- Quality visual aids
- Oral presentation skills
- Logical organization
- Quality of conclusions that are based on a synthesis of your research content

Presentation Powerpoint slides are to be submitted to david.martinelli@mail.wvu.edu by 9:00 PM on October 1 for Presentation 1 and 9:00 PM on November 5 for Presentation 2.

An abstract for Presentation 1 is due September 6 and for Presentation 2 is due October 16. Meetings with the instructor will be scheduled soon after abstracts are submitted.