University of South Australia

School of Natural and Built Environments

Postgraduate Program in Transport Systems Engineering and Planning

Road Safety Engineering – SP5 2007
COURSE SCHEDULE

Week	Date	Topic	Lecturer
1	23/07/07	*NO LECTURE* [First lecture is on 30/07/07]	
2	30/07/07	The discipline of Road Safety Engineering	MAPT
3	6/08/07	Road environment, driver behaviour and traffic behaviour	MAPT
4	13/08/07	*NO LECTURE*	
5	20/08/07	*NO LECTURE*	
6	27/08/07	Roadside hazards	MAPT
7	3/09/07	Crash data analysis 1	MAPT
8	10/09/07	Crash data analysis 2	MAPT
9	1/10/07	*PUBLIC HOLIDAY*	
10	8/10/07	*NO LECTURE*	
11	15/10/07	Evaluation and assessment 1	MAPT
12	22/10/07	Evaluation and assessment 2	MAPT
13	29/10/07	Road safety audit	MAPT
14	5/11/07	Project presentations	MAPT

This course is designed to introduce students to the theory and practice of road safety evaluation, road safety audit and countermeasure implementation. On completion of the course students should be able to:

- conduct a safety audit of a road design or traffic management project
- devise the most suitable countermeasure s for a given safety problem
- assess the impacts of road safety projects
- evaluate the effectiveness of a road safety project

The syllabus covers the types of traffic accidents; systems for classifying accidents; accident databases; problem identification; identification of hazardous road locations; accident countermeasures, engineering, education, enforcement and encouragement; evaluation techniques and impact assessment; road safety audit.

Lectures will be held in room BJ3-54, 09:30-11:30 on Mondays as indicated above.

References

AUSTROADS (1993). *Guide to Traffic Engineering Practice, Part 4: Road Crashes*. (Austroads: Sydney).

AUSTROADS (2004). *Guide to Traffic Engineering Practice, Part 4: Treatment of Crash Locations*. (Austroads: Sydney).

AUSTROADS (2002). *Road Safety Audits* (2nd ed) (Austroads: Sydney).

Fuller, R and Santos, J A (eds) (2002). *Human Factors for Highway Engineers*. (Pergamon-Elsevier: Oxford)

Ogden, K W (1996). *Safer Roads: A Guide to Road Safety Engineering*. (Avebury Technical Books: Aldershot)

Taylor, M A P, Bonsall, P W and Young, W (2000). *Understanding Traffic Systems: Data, Analysis and Presentation* (2nd ed) (Ashgate Publishing Co: Aldershot).

Assessment

Project	30% (*including* 5% for oral presentation)
Assignments	30%
Examination 1 x 2 hour	40%

Professor M A P Taylor
30 July 2007