

CIV5307: Parking Policy and Design

Background and Aims

This unit is concerned with the setting of parking policy and the design of parking systems. Its prime aim is to provide you with an ability to develop and design parking systems that complement urban goals. It investigates the determination of parking demand and policies for achieving travel demand through the pricing and setting of parking supply. Approaches to designing efficient, effective and safe parking systems are outlined.

After completing this unit participants will:

- understand the demand for parking,
- understand the determination and types of parking policy,
- appreciate the need for good parking policy,
- be aware of the need to integrate parking policy with urban and transport policy,
- understand the basic principles of parking design,
- gain an ability to design on-street parking systems, and
- gain an ability to design off-street parking systems.

Details of the structure of the unit are provided over the page

Enrolment Options

Enrol as a single unit or as part of either the Graduate Certificate in Transport and Traffic, Postgraduate Diploma in Transport and Traffic, or Masters in Transport and Traffic.

Off-Campus Study Mode

This unit is offered by Off-Campus (distance education) and there is no requirement for participants to attend lectures. Study guides, comprising a comprehensive set of course notes, are sent following enrolment. Further support is provided through a unit web site and via e-mail. The lecturer is available to answer questions and to provide assistance as necessary throughout the semester. Assistance can be arranged by email, facsimile, mail, telephone or through the discussion groups on the unit web site. Assessment comprises two assignments and an examination (worldwide exam venues are available).

Unit Co-ordinator



Professor William Young has over 30 years of experience in transport and education. He has taught, researched, consulted and published in the traffic, land-use/transport/environment interaction, parking, management, and education areas. Bill has worked at Main Roads Dept in Australia, Sir Alfred McAlpine & Sons in England and at Oxford, Nanyang, Karlsruhe, Michigan State and Hong Kong Universities. He holds a BE(Hons), GradDipMan, MBA, MSc and PhD and is a Fellow of the IE(Aust), the Institute of Transportation Engineers and the Chartered Institute of Transport. Bill is currently the Chair in Civil Engineering and Head of the Department of Civil Engineering at Monash University.

Enrolment or General Course Enquiries:

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Structure

The unit is structured around 12 topics which are generally associated with one week of study

Topic	<i>After completing this topic, participants will:</i>
1. Introduction to Parking Policy	<ul style="list-style-type: none"> • understand the relationship between parking policy and urban goals • be able to show how parking policy can improve the urban environment
2. Parking Accumulation Demand Models	<ul style="list-style-type: none"> • understand the types of numerical models used in parking demand determination • be able to estimate parking demand using numerical models
3. Parking Arrival and Duration Demand Models	<ul style="list-style-type: none"> • understand how parking arrivals and durations can be used to determine parking demand • be aware of the data used in determining parking demand
4. Control of Parking Supply	<ul style="list-style-type: none"> • understand how to control the aggregate supply, distribution and location of parking in order to achieve urban goals
5. Parking Price Control	<ul style="list-style-type: none"> • understand the role of pricing in determining parking demand • understand the methods that can be used to change parking price
6. Parking Policy as a Tool for Decision-making	<ul style="list-style-type: none"> • understand the interaction between parking policies • understand the role of parking policy in decision making
7. Parking Design Principles	<ul style="list-style-type: none"> • be aware of the major principles guiding design • be aware of the process of parking design
8. Car Park Layout	<ul style="list-style-type: none"> • be aware of the procedures for determining parking needs • understand how to locate parking efficiently • be able to determine components of the parking system
9. Parking for Vehicles Other Than Cars	<ul style="list-style-type: none"> • be aware of the special needs of different parking users • be able to balance parking provision for these users
10. Traffic Movement and Circulation	<ul style="list-style-type: none"> • be aware of the design procedures for entrances and exits • be aware of the need to design for efficient circulation of vehicles
11. Safety and Information	<ul style="list-style-type: none"> • be able to design safe and secure parking systems • be able to ensure parking information is provided efficiently and safely
12. Amenity and Building Design	<ul style="list-style-type: none"> • be aware of the need for efficient building design • be aware of the need to reduce visual intrusion • be aware of the need to design for future changes to parking systems