

ABPL90135 Analytical Methods

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2012, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 1x2 hour lecture per week; 1x1 hour tutorial per week Total Time Commitment: 140 hours
Prerequisites:	None
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	For the purposes of considering requests for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: http://www.services.unimelb.edu.au/disability/
Coordinator:	Dr Jennifer Day
Contact:	Environments and Design Student Centre Ground Floor, Baldwin Spencer (building 113) <i>Enquiries</i> Phone: 13 MELB (13 6352) Website: http://www.msd.unimelb.edu.au (http://www.msd.unimelb.edu.au/)
Subject Overview:	This subject was formerly called Analytical Methods for Urban Planning. Analytical Methods provides an introduction to quantitative data analysis for the social sciences, focusing on the data and techniques commonly used in urban planning analysis. It develops understanding and skill in the use of the collection, analysis and representation of information. The subject is presented in two sections: <ol style="list-style-type: none">1 An introduction to common demographic and economic data available from secondary sources, including census data, techniques for analysing and interpreting population data as well as population and economic forecasting techniques.2 An introduction to basic statistical analysis of small-sample and large-sample data. Topics include descriptive statistics, confidence intervals and power, hypothesis testing, measures of association, and an introduction to regression techniques. MSD students may be directed to focus on particular units within this subject to complement their program's area of study or research aspirations.
Objectives:	<ul style="list-style-type: none"># A working knowledge of some of the secondary data available for planning and social science analysis.# Basic tools of demographic and economic analysis using secondary data# A foundation in understanding statistical techniques, and their application to social science problems# Ability to write about and present findings of these analyses# Written, verbal and graphic communication of data and findings# Identification of key social and spatial issues

Assessment:	Part 1 of Subject Short written assessment, 500 words (10%, due week 3). Community profile, 2,500 words (30%, due week 7). Presentation of Community Profile, 500 words (10%, due week 7). Part 2 of Subject 3 homework assignments on statistical analysis: 400 words (15%, due week 8) 400 words (15%, due week 10) 700 words (20%, due week 12)
Prescribed Texts:	No required texts.
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	<ul style="list-style-type: none"> # Written and verbal communication # Identification of key issues and debates in a field of work # Application of quantitative techniques
Related Course(s):	Master of Design (Urban Design) Master of Property Master of Property Master of Urban Design Master of Urban Design Master of Urban Planning
Related Majors/Minors/ Specialisations:	Cost Management Policy Project Management Research and Development Sustainable Cities, Sustainable Regions