

UNSW Business School

School of Economics

ECON2206 Introductory Econometrics

Course Outline

Semester 2, 2017

Course-Specific Information

The Business School expects that you are familiar with the contents of this course outline. You must also be familiar with the Course Outlines Policies webpage which contains key information on:

- Program Learning Goals and Outcomes
- Academic Integrity and Plagiarism
- Student Responsibilities and Conduct
- Special Consideration
- Student Support and Resources

This webpage can be found on the Business School website: https://www.business.unsw.edu.au/degrees-courses/course-outlines/policies



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1 STAFF CONTACT DETAILS

Lecturer-in-charge: Dr Michele De Nadai **Location:** Room 432 UNSW Business School

Phone: 9385 3367

Email:m.denadai@unsw.edu.au

Consultation Times: Thursday 2pm-5pm or by appointment

Tutors:

Bianca Bonollo: b.bonollo@unsw.edu.au
 Kane Hausfeld: k.hausfeld@unsw.edu.au
 Khilan Vekaria: k.vekaria@unsw.edu.au

1.1 Communications with staff

You should feel free to contact your lecturer about any academic matter. However, for efficiency, all enquiries about the subject material should be made at lectures or tutorials or during consultation time. Discussion of course subject material will **not** be entered into via lengthy emails.

1.2 PASS

The PASS scheme introduced in the UNSW Business School to help undergraduates was extended to Introductory Econometrics for the first time in 2015 and it will continue to be offered in 2016. PASS will offer extra support in this course in the form of study groups, led by experienced third and fourth year students. Students enrolled in this course can join them on a voluntary basis with no need to book. Many students have found PASS helpful as it provides both extra problems for practice and discussion in a group setting and advice from good students who have already completed the course. It also provides an informal atmosphere with the opportunity to ask any questions that students may be hesitant to ask staff. The PASS sessions will start in Week 3 and the timetable will be available from the Course Website in Week 2.

2 COURSE DETAILS

2.1 Teaching Times and Locations

Lecture (Weeks 1-12): Wednesday 4:00-6:00pm, Ainsworth G03. Students should print out the relevant lecture slides before attending the lectures.

Tutorials (Weeks 2-13): See online UNSW timetable

Students should read relevant materials and attempt the tutorial questions before attending the tutorial classes. All Week 3 and 4 tutorials will be held in computer labs according to the following schedule.

Tutorial Time	Section	Class No.	Computer Lab
Tue 09:00	T09A	2661	BUS 107
Tue 10:00	T10A	2662	BUS 107
Tue 11:00	T11A	2663	BUS 107
Tue 13:00	T13A	2658	Law 388
Tue 14:00	T14A	2659	BUS 207



Tue 14:00	T14B	2666	MorvB LG2
Tue 15:00	T15A	2660	BUS 219
Tue 16:00	T16A	2665	BUS 215
Tue 17:00	T17A	2657	BUS 107
Wed 09:00	W09A	2664	BUS 215
Wed 10:00	W10A	2667	BUS 215
Wed 11:00	W11A	2668	MorvB LG30

Computing

This subject requires econometric/statistical software for many homework problems and both assignments and the project. The preferred software is Stata and you may only use another statistical package with the explicit permission of the lecturer.

Stata 14 is the most recent version and is currently available in the Business School computing labs for all students formally enrolled in the course. (Previous Stata versions are also likely to be adequate for this course.)

Computing labs (Weeks 2-13): The following labs will be available at specified times for use by students enrolled in ECON2206. Students may use any of the labs at other times subject to availability.

CATS are unable to confirm below bookings until closer to the start of Semester 2 due to low availability in the computer labs. The lab bookings for self-study will be confirmed in class

Day	Time	Computer Lab
Tuesday	09:00-10:00	Quad 1043
Wednesday	17:00-18:00	Quad 1043

If students want to purchase their personal copy of Stata they can do so directly from the provider at http://www.surveydesign.com.au/buygradplan.html through the Australian GradPlan arrangements at a cost that varies depending on plan chosen.

MyAccess

UNSW IT is trialling a new service 'myAccess' that will provide you with access to Stata so you can complete assignments, study for exams or improve your skills on your own device in your own time in a location of your choice. This course has been selected to participate in a pilot that will be run throughout 2017.

The service can be accessed through the dedicated myAccess website at http://myaccess.unsw.edu.au. You will need to complete some essential checks of your device and install a Citrix receiver on your device first in order to use the service. User guides on the website provide you with step-by-step instructions on how to complete these checks, install on multiple devices and operating systems and how to use save, print and download files.

To learn more about the myAccess service go to the website to find easy to follow instructions and videos on how to use the service with Frequently Asked Questions (FAQ's), including information on Troubleshooting and Known Issues.



2.2 Units of Credit

The course is worth 6 units of credit. There is no parallel teaching in this course.

2.3 Summary of Course

This course introduces the use of econometrics to explore and estimate economic relationships using linear regression models. Extensions covering statistical complications such as heteroskedasticity, data issues such as proxy variables, and regression with time series data will also be included. Practical computer applications feature throughout. The course will give students a basic understanding of methods required to model the inter-relationship between variables and prepare them for further studies of econometric methods.

2.4 Aim and Relationship to Other Courses

This course (ECON2206) provides an introduction to econometrics, which involves the application of statistical methods in the analysis of economic data. ECON2206 is a prerequisite for ECON3208 (Econometric Methods) and ECON3209 (Statistics for Econometrics).

2.5 Presumed knowledge

ECON1202 Quantitative Analysis and ECON1203 Business & Economics Statistics (BES), or equivalent courses, are prerequisites for ECON2206. The material covered in these courses is treated as assumed knowledge.

2.6 Student Learning Outcomes

The Course Learning Outcomes are what you should be able to DO by the end of this course if you participate fully in learning activities and successfully complete the assessment items.

The Learning Outcomes in this course also help you to achieve some of the overall Program Learning Goals and Outcomes for all undergraduate coursework students in the Business School. Program Learning Goals are what we want you to BE or HAVE by the time you successfully complete your degree. You demonstrate this by achieving specific Program Learning Outcomes - what you are able to DO by the end of your degree.

For more information on Program Learning Goals and Outcomes, see the School's Course Outlines Policies webpage available at https://www.business.unsw.edu.au/degrees-courses/course-outlines/policies.

The following table shows how your Course Learning Outcomes relate to the overall Program Learning Goals and Outcomes, and indicates where these are assessed:

Program Learning Goals and Outcomes		Course Learning Outcomes	Course Assessment Item
This course helps you to achieve the following learning goals		On successful completion of the course, you should be able to:	This learning outcome will be assessed in the following items:
1	Knowledge	List and explain the assumptions underlying regression models. Use Stata to analyse data. Present regression analysis results.	Tutorial assignments Final Exam



2	Critical thinking and problem solving	Use econometric models and methods to interpret and analyse real data in economics, finance and other social sciences.	Tutorial assignmentsFinal Exam	
3a	Written communication	Construct written work which is logically and professionally presented.	Tutorial assignments Final Exam	
3b	Oral communication	Communicate ideas in a succinct and clear manner.	Not specifically assessed.	
4	Teamwork	Work collaboratively to complete a task.	Tutorial assignments	
5a.	Ethical, environmental and sustainability considerations	Not specifically addressed in this course.	Not specifically assessed.	
5b.	Social and cultural awareness	Not specifically addressed in this course.	Not specifically assessed.	

3 LEARNING AND TEACHING ACTIVITIES

3.1 Approach to Learning and Teaching in the Course

The philosophy underpinning this course and its Teaching and Learning Strategies are based on Guidelines on Learning that Inform Teaching at UNSW. These guidelines may be viewed at: www.guidelinesonlearning.unsw.edu.au. Specifically, the lectures, tutorials and assessment have been designed to appropriately challenge students and support the achievement of the desired learning outcomes. A climate of inquiry and dialogue is encouraged between students and teachers and among students (in and out of class). The lecturers and tutors aim to provide meaningful and timely feedback to students to improve learning outcome.

3.2 Learning Activities and Teaching Strategies

The examinable content of the course is defined by the references given in the Lecture Schedule, the content of Lectures, and the content of the Tutorial Program.

Lectures

The purpose of lectures is to provide a logical structure for the topics that make up the course; to emphasize the important concepts and methods of each topic; and to provide relevant examples to which the concepts and methods are applied.

Tutorials

Tutorials begin in Week 2 and are an integral part of the subject. Tutorial presentations, discussions, solutions to problems are designed to help students deepen their understanding and practise learnt material.

Out-of-Class Study

While students may have preferred individual learning strategies, it is important to note that most learning will be achieved outside of class time. Lectures can only provide a structure to assist your study, and tutorial time is limited.

An "ideal" strategy (on which the provision of the course materials is based) might include:



- 1. Read the relevant chapter(s) of the text and relevant lecture slides **before the lecture.** This will give you a general idea of the topic area.
- 2. Attend lectures. Here the context of the topic in the course and the important elements of the topic are identified. The relevance of the topic should be explained.
- 3. Attempt tutorial questions before attending the tutorial class. This helps you identify issues that can be clarified or resolved in the tutorial class.

4 ASSESSMENT

4.0 You must complete the "Working with Academic Integrity" module on your Moodle site, before you hand in any written work.

- You MUST complete the 'Working with Academic Integrity' module AND THE MODULE'S QUIZ, found on your course Moodle site, BEFORE YOU ARE ALLOWED TO SUBMIT ANY WRITTEN ASSESSMENT.
- If your submission is delayed because you did not complete the module and the quiz, you may be liable to late penalties as specified in your course outline.
- Failing to comply with the University rules of Academic integrity may result in serious consequences:
 - All cases of plagiarism (regardless of their severity) ARE recorded with the University Integrity Office University register.
 - Depending on the level of the plagiarism/misconduct, the penalties may include a FAIL grade for the assessment piece, a FAIL grade for the course, or being expelled for serious/repeat offences.

Any misconduct, including plagiarism, is recorded on your Conduct Record. If you have only one academic misconduct at the lowest level (level A) in your career, then the record is wiped clear when you graduate. Otherwise it remains there permanently. *Many professions, such as accounting and law, require access to the student's Conduct Record.*

4.1 Formal Requirements

To be eligible for a passing grade in this course, students must achieve a composite mark of at least 50 per cent.

There is no requirement to pass each component of assessment but achievement of a satisfactory mark (>40%) on completed components is a prerequisite for any special consideration request you apply for.

4.2 Assessment Details

Assessment Tasks	Weight	Length	Due Date
Tutorial Assignments	40%	≤ 4 pages	Tut time, Weeks 7 and 13, 20% each
Final Exam	60%	2 hours	University Exam Period
Total	100%		

Work commitments, holiday or travel or wedding plans, are NOT valid excuses for failing to complete any of the assessment tasks.



4.3 Tutorial Assessments

Tutorials start Week 2. The Tutorial Program questions will be posted on the course website. Each week a series of problems based on the lecture material will be set. You should attempt all questions before attending tutorial classes. Attending at least 80% of tutorials is a UNSW requirement and is a prerequisite for any special consideration request you apply for.

Tutorial assignments (due Week 7 and 13) will be collected and marked as the Tutorial Assessments. Each of the tutorial assignments will account for 20% of your total assessment for the course.

The assignments must be handed in to *the tutor at (or before) the beginning of your tutorial class* in Weeks 7 and 13. Otherwise a mark of zero will be given. Staff members other than your tutor will NOT accept your assignment.

The tutorial assignments are designed to assess your understanding of regression models, your ability to interpret regression results and appraise the quality of a model. The tutorial assignments involve analysing data with Stata. The criteria used for marking the assignments are correctness and clarity of the answers presented. The tutorial assignments are designed to assess progress toward learning goals listed in section 2.6.

4.4 Late Submission of Tutorial Assignments

20% of the value of the submission will be deducted for each day (24 hours). This rule is applicable to both hardcopy and softcopy submissions. Work submitted more than five days late will not be marked. If you delay submission, it is your responsibility to hand the assignment to your tutor. Staff members other than your tutor will NOT accept your project reports.

4.5 Special Considerations

If you are unable to hand in your assignment because of sickness, you must apply for special consideration. For information on Special Consideration please refer to the Business School's Course Outlines Policies webpage. Applications for special consideration must be lodged online through myUNSW within 3 working days of the assessment (Log into myUNSW and go to My Student Profile tab > My Student Services channel > Online Services > Special Consideration). Then submit the originals or certified copies of your supporting documentation and a completed Professional Authority form (pdf - download here) to Student Central. Work commitments, holiday or travel or wedding plans are NOT valid excuses for failing to submit your assignments.

4.6 Final Examination

The final exam will be held in the University examination period and will be 2 hours long. The final exam will cover the entire course. Further information on the content and structure of the Final Exam will be provided towards the end of session.

The final exam is designed to assess knowledge of econometric concepts, your understanding of regression models and the application of regression methods to real world problems. The questions will involve interpretation of regression results, basic calculations, hypothesis testing, and evaluation of regression models. The final exam is designed to assess achievement of some learning goals in 2.6.



4.7 Protocol for viewing final exam scripts

The UNSW Business School has set a protocol under which students may view their final exam script. Please check the protocol <u>here</u>.

4.8 Quality Assurance

The Business School is actively monitoring student learning and quality of the student experience in all its programs. A random selection of completed assessment tasks may be used for quality assurance, such as to determine the extent to which program learning goals are being achieved. The information is required for accreditation purposes, and aggregated findings will be used to inform changes aimed at improving the quality of Business School programs. All material used for such processes will be treated as confidential and will not be related to course grades.

5 COURSE EVALUATION AND DEVELOPMENT

Each year feedback is sought from students and other stakeholders about the courses offered in the School and continual improvements are made based on this feedback. UNSW's myExperience Survey Tool is one of the ways in which student evaluative feedback is gathered. You are strongly encouraged to take part in the feedback process.

6 COURSE RESOURCES

The website for this course is on UNSW Moodle at http://moodle.telt.unsw.edu.au. The course website contains copies of: Course Outline, Lecture Slides; Tutorial Questions; Data sets required for the tutorial questions; How to Use Stata; examples of Stata programs; and Announcements. Students should consult this website at least once a week as it contains important information about the course. It will be assumed that all students have seen Announcements posted on the course website.

The required textbook for this course is:

 Wooldridge, J.M. (2016), Introductory Econometrics: A Modern Approach, 6th Edition, South-Western

This textbook is currently in stock at the UNSW bookstore, and copies are held in Open Reserve in the Main Library. Previous editions of this text will also be a suitable reference, but be aware that any page number references appearing in course material will relate to the latest edition and not to previous editions.

The following book provides an alternative presentation of similar material:

• J.H. Stock and M.W. Watson (2012) *Introduction to Econometrics*, 3rd Edition, Pearson.

More advanced treatment of the topics covered in the course are presented in the textbooks:

• W. Greene (2012) *Econometric Analysis*, 7th edition, Pearson.



• A.C. Cameron and P. Trivedi (2005) *Microeconometrics: Methods and Applications*, Cambridge University Press.

7 COURSE SCHEDULE

7.1 Lecture Schedule

The schedule below is an approximation. Its order and contents may vary. The date in the first column is Monday for each week and is not the lecture date. Monday 3 October is a public holiday. If your tutorial is scheduled for this day, you should make a special arrangement to attend another tutorial that week.

LECTURE SCHEDULE			
Week	Topic		
Week 1 24 July	Introduction to Econometrics & Regression, Wooldridge Ch 1, 2		
Week 2 31 July	Simple/Multiple Regression Model, Wooldridge Ch 2, 3		
Week 3 7 August	Multiple Regression: Estimation, Wooldridge Ch 3		
Week 4 14 August	Multiple Regression: Inference I, Wooldridge Ch 4		
Week 5 21 August	Multiple Regression: Inference II, Wooldridge Ch 4		
Week 6 28 August	Asymptotics and Further Issues, Wooldridge Ch 5,6		
Week 7 4 September	Qualitative Information, Wooldridge Ch 7 Assignment Due		
Week 8 11 September	Heteroskedasticity, Wooldridge Ch 8		
Week 9 18 September	Specification Issues, Wooldridge Ch 9		
Mid-semester break: 23 September – 2 October inclusive (2 Oct = Labour Day Public Holiday)			
Week 10 3 October	(Monday 2 Oct is a public holiday) Time Series Data: Basic Regression, Wooldridge Ch10		
Week 11 9 October	Time Series Data: Further Issues, Wooldridge Ch11		
Week 12 16 October	Simple Panel Data Methods, Wooldridge Ch13		
Week 13 23 October	NO LECTURE, ONLY TUTORIALS Assignment Due		

7.2 Tutorial Schedule

Weekly tutorial questions (Tutorial Program) will be posted in the course website.

