UniSC

COURSE OUTLINE

BUS305 Econometrics

School: School of Business and Creative Industries

2025 | Semester 2

UniSC Sunshine Coast	BLENDED LEARNING	Most of your course is on campus but you may be able to do some components of this course online.
Online	ONLINE	You can do this course without coming onto campus, unless your program has specified a mandatory onsite requirement.

Please go to usc.edu.au for up to date information on the teaching sessions and campuses where this course is usually offered.

1. What is this course about?

1.1. Description

You will learn how to use econometric software to carry out empirical analysis of your own using multiple regression and will develop your understanding of various practical aspects of regression models, including the consequences of violation of the classical regression assumptions, dummy variables, different functional forms, and an introduction to time-series and panel models.

1.2. How will this course be delivered?

ACTIVITY	HOURS	BEGINNING WEEK	FREQUENCY
BLENDED LEARNING			
Learning materials – Interactive online learning activities.	1hr	Week 1	13 times
Tutorial/Workshop 1 – Scheduled face to face workshops.	2hrs	Week 1	12 times
ONLINE			
Learning materials – Interactive online learning activities.	1hr	Week 1	13 times
Tutorial/Workshop 1 – Scheduled online workshops (Recorded).	2hrs	Week 1	12 times

1.3. Course Topics

Introduction to the linear regression model and using a statistical package

Functional forms of regression models

Qualitative vs quantitative explanatory variables

Multicollinearity, heteroscedasticity, autocorrelation, and specification errors

The logit and probit models

Panel regression models

Stationarity and cointegration

2. What level is this course?

> 300 Level (Graduate)

Demonstrating coherence and breadth or depth of knowledge and skills. Independent application of knowledge and skills in unfamiliar contexts. Meeting professional requirements and AQF descriptors for the degree. May require pre-requisites where discipline specific introductory or developing knowledge or skills is necessary. Normally undertaken in the third or fourth full-time study year of an undergraduate program.

3. What is the unit value of this course?

> 12 units

4. How does this course contribute to my learning?

COURSE LEARNING OUTCOMES On successful completion of this course, you should be able to...	GRADUATE QUALITIES MAPPING Completing these tasks successfully will contribute to you becoming...	PROFESSIONAL STANDARD MAPPING * Competencies from multiple Professional Bodies (see below) *
1 Frame problems in terms of core economic concepts using the fundamentals tools of econometrics and their application to testing economic theories.	Knowledgeable Creative and critical thinker Empowered	PC1.1, PC1.3, PC3.1, PC6.2
2 Implement basic empirical techniques and interpret the results using a standard statistical package to analyse various types of economic problems.	Knowledgeable Creative and critical thinker Empowered	PC1.1, PC1.3, PC3.1, PC6.2
3 Use appropriate economic data and statistical methods to conduct independent econometric analysis, as well as present a clear and coherent exposition and appraise the outcome of that analysis.	Knowledgeable Creative and critical thinker Empowered	PC1.1, PC3, 5.3.4, 5.3.5, PC6

* Competencies by Professional Body

CODE	COMPETENCY
ASSOCIATION TO ADVANCE COLLEGIATE SCHOOLS OF BUSINESS	
PC1.1	Written Communication
PC1.3	Digital Literacy
PC3	Creative and Critical Thinking
PC3.1	Problem Solving
PC6	Career-ready
PC6.2	Discipline Knowledge
EDUCATION FOR SUSTAINABLE DEVELOPMENT GOALS	
5.3.4	The learner is able to observe and identify gender discrimination.
5.3.5	The learner is able to plan, implement, support and evaluate strategies for gender equality.

5. Am I eligible to enrol in this course?

Refer to the UniSC Glossary of terms for definitions of "pre-requisites, co-requisites and anti-requisites".

5.1. Pre-requisites

> BUS201 or BUS202

5.2. Co-requisites

Not applicable

5.3. Anti-requisites

Not applicable

5.4. Specific assumed prior knowledge and skills (where applicable)

Not applicable

6.   How am I going to be assessed?

6.1. Grading Scale

Standard Grading (GRD)

High Distinction (HD), Distinction (DN), Credit (CR), Pass (PS), Fail (FL).

6.2. Details of early feedback on progress

Hands-on exercises in using statistical software will start in Week 1 with feedback provided orally in class and in written form by means of model programs and results supplied on Canvas.

6.3. Assessment tasks

DELIVERY MODE	TASK NO.	ASSESSMENT PRODUCT	INDIVIDUAL OR GROUP	WEIGHTING %	WHAT IS THE DURATION / LENGTH?	WHEN SHOULD I SUBMIT?	WHERE SHOULD I SUBMIT IT?
All	1	Report	Individual	25%	300 words (excluding graphs, tables and references	Week 5	Online Assignment Submission with plagiarism check
All	2	Written Piece	Individual	35%	1000 words (excluding graphs, tables and references)	Week 11	Online Assignment Submission with plagiarism check
All	3	Report	Individual	40%	1500 words (excluding graphs, tables and references)	Exam Period	Online Assignment Submission with plagiarism check

All - Assessment Task 1: Descriptive statistics project

GOAL:	To summarise and analyse key descriptive and basic inferential statistical information of a data set using a statistical software package.
PRODUCT:	Report
FORMAT:	The report will consist of a number of tables and/or graphs produced using a statistical software package along with a concise summary in words. Further details are provided in the assessment area in Canvas.

CRITERIA:	No.		Learning Outcome assessed
	1	Application of appropriate statistical methods	①
	2	Appropriate tabular and/or graphical analysis of results	①
	3	Insightful written analysis of results	①
GENERIC SKILLS:	Communication, Problem solving, Applying technologies, Information literacy		

All - Assessment Task 2: Problem set

GOAL:	To conduct, interpret and analyse the findings from a range of econometric models.
PRODUCT:	Written Piece
FORMAT:	Work must be completed individually; written answers should be presented in a manner comprehensible by an experienced marker. Questions will be similar to those on exercises already covered in the course. Further details are provided in the assessment area in Canvas.

CRITERIA:	No.		Learning Outcome assessed
	1	Accuracy of formulation of problem.	① ②
	2	Clarity of communication of method used and interpretation of results	②
	3	Correctness of answers	②
GENERIC SKILLS:	Communication, Problem solving, Applying technologies		

All - Assessment Task 3: Applied project

GOAL:	To present a clear and coherent exposition of ideas and empirical evidence by completing an applied project using an econometrics software package.
PRODUCT:	Report
FORMAT:	The report will include a justification of the methods chosen, interpretation and analysis of the empirical results and discussion of limitations. Focus will be on methods from later parts of the course. Further details are provided in the assessment area in Canvas.

CRITERIA:	No.		Learning Outcome assessed
	1	Knowledge of appropriate methods and models to analyse a problem in an economic context.	3
	2	Demonstrate critical thinking in the estimation and interpretation of appropriate econometric models.	3
	3	Demonstrate reflective thinking relating to limitations and potential improvements to analysing the given problem.	3

GENERIC SKILLS:	Communication, Problem solving, Organisation, Applying technologies, Information literacy

7. Directed study hours

A 12-unit course will have total of 150 learning hours which will include directed study hours (including online if required), self-directed learning and completion of assessable tasks. Student workload is calculated at 12.5 learning hours per one unit.

8. What resources do I need to undertake this course?

Please note: Course information, including specific information of recommended readings, learning activities, resources, weekly readings, etc. are available on the course Canvas site– Please log in as soon as possible.

8.1. Prescribed text(s) or course reader

Please note that you need to have regular access to the resource(s) listed below. Resources may be required or recommended.

REQUIRED?	AUTHOR	YEAR	TITLE	EDITION	PUBLISHER
Recommended	Damodar Gujarati	2017	Econometrics by Example	2nd	Bloomsbury Publishing

8.2. Specific requirements

Access to a computer.
Student version of an econometric software package (available for free download).

9. How are risks managed in this course?

Health and safety risks for this course have been assessed as low. It is your responsibility to review course material, search online, discuss with lecturers and peers and understand the health and safety risks associated with your specific course of study and to familiarise yourself with the University's general health and safety principles by reviewing the online induction training for students, and following the instructions of the University staff.

10. What administrative information is relevant to this course?

10.1. Assessment: Academic Integrity

Academic integrity is the ethical standard of university participation. It ensures that students graduate as a result of proving they are competent in their discipline. This is integral in maintaining the value of academic qualifications. Each industry has expectations and standards of the skills and knowledge within that discipline and these are reflected in assessment.

Academic integrity means that you do not engage in any activity that is considered to be academic fraud; including plagiarism, collusion or outsourcing any part of any assessment item to any other person. You are expected to be honest and ethical by completing all work yourself and indicating in your work which ideas and information were developed by you and which were taken from others. You cannot provide your assessment work to others. You are also expected to provide evidence of wide and critical reading, usually by using appropriate academic references.

In order to minimise incidents of academic fraud, this course may require that some of its assessment tasks, when submitted to Canvas, are electronically checked through Turnitin. This software allows for text comparisons to be made between your submitted assessment item and all other work to which Turnitin has access.

10.2. Assessment: Additional Requirements

Eligibility for Supplementary Assessment

Your eligibility for supplementary assessment in a course is dependent of the following conditions applying:
(a) The final mark is in the percentage range 47% to 49.4%; and
(b) The course is graded using the Standard Grading scale

10.3. Assessment: Submission penalties

Late submissions may be penalised up to and including the following maximum percentage of the assessment task's identified value, with weekdays and weekends included in the calculation of days late:
(a) One day: deduct 5%;
(b) Two days: deduct 10%;
(c) Three days: deduct 20%;
(d) Four days: deduct 40%;
(e) Five days: deduct 60%;
(f) Six days: deduct 80%;
(g) Seven days: A result of zero is awarded for the assessment task.

The following penalties will apply for a late submission for an online examination:
Less than 15 minutes: No penalty
From 15 minutes to 30 minutes: 20% penalty
More than 30 minutes: 100% penalty

10.4. SafeUniSC

UniSC is committed to a culture of respect and providing a safe and supportive environment for all members of our community. For immediate assistance on campus contact SafeUniSC by phone: 07 5430 1168 or using the SafeZone app. For general enquires contact the SafeUniSC team by phone 07 5456 3864 or email safe@usc.edu.au.

The SafeUniSC Specialist Service is a Student Wellbeing service that provides free and confidential support to students who may have experienced or observed behaviour that could cause fear, offence or trauma. To contact the service call 07 5430 1226 or email studentwellbeing@usc.edu.au.

10.5. Study help

For help with course-specific advice, for example what information to include in your assessment, you should first contact your tutor, then your course coordinator, if needed.

If you require additional assistance, the Learning Advisers are trained professionals who are ready to help you develop a wide range of academic skills. Visit the Learning Advisers web page for more information, or contact Student Central for further assistance: +61 7 5430 2890 or studentcentral@usc.edu.au.

10.6. Wellbeing Services

Student Wellbeing provide free and confidential counselling on a wide range of personal, academic, social and psychological matters, to foster positive mental health and wellbeing for your academic success.

To book a confidential appointment go to Student Hub, email studentwellbeing@usc.edu.au or call 07 5430 1226.

10.7. AccessAbility Services

Ability Advisers ensure equal access to all aspects of university life. If your studies are affected by a disability, learning disorder mental health issue, injury or illness, or you are a primary carer for someone with a disability or who is considered frail and aged, AccessAbility Services can provide access to appropriate reasonable adjustments and practical advice about the support and facilities available to you throughout the University.

To book a confidential appointment go to Student Hub, email AccessAbility@usc.edu.au or call 07 5430 2890.

10.8. Links to relevant University policy and procedures

For more information on Academic Learning & Teaching categories including:

- Assessment: Courses and Coursework Programs
- Review of Assessment and Final Grades
- Supplementary Assessment
- Central Examinations
- Deferred Examinations
- Student Conduct
- Students with a Disability

For more information, visit https://www.usc.edu.au/explore/policies-and-procedures#academic-learning-and-teaching

10.9. Student Charter

UniSC is committed to excellence in teaching, research and engagement in an environment that is inclusive, inspiring, safe and respectful. The Student Charter sets out what students can expect from the University, and what in turn is expected of students, to achieve these outcomes.

10.10. General Enquiries

In person:

- **UniSC Sunshine Coast** - Student Central, Ground Floor, Building C, 90 Sippy Downs Drive, Sippy Downs
- **UniSC Moreton Bay** - Service Centre, Ground Floor, Foundation Building, Gympie Road, Petrie
- **UniSC SouthBank** - Student Central, Building A4 (SW1), 52 Merivale Street, South Brisbane
- **UniSC Gympie** - Student Central, 71 Cartwright Road, Gympie
- **UniSC Fraser Coast** - Student Central, Student Central, Building A, 161 Old Maryborough Rd, Hervey Bay
- **UniSC Caboolture** - Student Central, Level 1 Building J, Cnr Manley and Tallon Street, Caboolture

Tel: +61 7 5430 2890

Email: studentcentral@usc.edu.au