



COURSE OUTLINE

TPP105 Statistics

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2021 | Semester 2

USC Sunshine Coast
USC Moreton Bay
USC Fraser 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.

Please go to the USC website 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

This course is designed to introduce you to basic statistical skills for entry to academic programs at the University. By undertaking this course, you will gain an understanding of the research process and the critical thinking skills required in research and its reporting. The ability to apply statistical concepts is an essential skill for all undergraduates regardless of discipline. This course consists of one lecture per week where you will be presented with theoretical knowledge. Each lecture is followed by a tutorial, where the theoretical concepts are illustrated, reaffirmed and complemented with practical exercises.

1.2. How will this course be delivered?

ACTIVITY	HOURS	BEGINNING WEEK	FREQUENCY
BLENDED LEARNING			
Tutorial/Workshop 1	2hrs	Week 1	13 times
Lecture	1hr	Week 1	13 times
ONLINE			
Tutorial/Workshop 1 – Online	2hrs	Week 1	13 times

1.3. Course Topics

Descriptive statistics, designing research and critical thinking about research design, calculator skills, basic statistics packages (Excel and SPSS), appropriate data presentation, inferential statistics, the concept of probability in inferential tests, hypotheses and how to test them, Z tests, t tests and confidence intervals and how to apply these inferential tests.

2. What level is this course?

100 Level (Introductory)

Engaging with discipline knowledge and skills at foundational level, broad application of knowledge and skills in familiar contexts and with support. Limited or no prerequisites. Normally, associated with the first 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	GRADUATE QUALITIES MAPPING	PROFESSIONAL STANDARD MAPPING
On successful completion of this course, you should be able to...	Completing these tasks successfully will contribute to you becoming...	Association to Advance Collegiate Schools of Business
1 Demonstrate and apply basic knowledge of statistics to simple contexts with extensive support and practice.	Empowered	PC6.2 - Discipline Knowledge
2 Develop and interpret tabular data and present them in scientifically valid graphical forms.	Knowledgeable	PC1 - Communication PC1.1 - Written Communication
3 Analyse data using descriptive and inferential statistical techniques (i) from first principles using formulae and (ii) using a scientific calculator and statistics software to calculate measures of central tendency and variability test hypotheses based on given research questions	Knowledgeable	PC3 - Creative and Critical Thinking
4 Troubleshoot statistical and experimental errors and identify implausible results	Creative and critical thinker	PC3 - Creative and Critical Thinking

5. Am I eligible to enrol in this course?

Refer to the [USC Glossary of terms](#) for definitions of “pre-requisites, co-requisites and anti-requisites”.

5.1. Pre-requisites

Must be enrolled in Program TP000

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

Drafts may be discussed with tutors and peers if time permits in tutorials or consultation times. If face to face learning is available, time will be allocated in tutorials for visits to computer labs in Week 3 and 4 (and possibly week 5) for students to gain experience in statistical packages required for questions within this assessment item.

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	Written Piece	Individual	30%	approximately 500 words	Week 5	Online Assignment Submission with plagiarism check
All	2	Examination	Individual	30%	1.5 hours	Week 7	Online Test (Quiz)
All	3	Examination	Individual	40%	2 hours	Week 13	Online Test (Quiz)

All - Assessment Task 1: Statistics assignment

GOAL:	To assess knowledge gained in the first 4 weeks of the course: the language of statistics, basic research design, sampling strategies and the presentation of descriptive statistics.	
PRODUCT:	Written Piece	
FORMAT:	Online submission	
CRITERIA:	No.	Learning Outcome assessed
	1	clarity of thinking through development of problem solutions 1 2
	2	accuracy of outcomes through appropriate use of tables and figures 2
	3	demonstrated understanding of statistical language 1
	4	clarity in communicating the ideas underpinning a problem solution, including correct use of statistical symbols and conventions 1 2

All - Assessment Task 2: Mid semester exam

GOAL:	To assess knowledge gained in the first 6 weeks of the course: the language of statistics, basic research design, sampling strategies, measures of central tendency and variability, analysing data and using a scientific calculator and the presentation of descriptive statistics	
PRODUCT:	Examination	
FORMAT:	Online examination	
CRITERIA:	No.	Learning Outcome assessed
	1	clarity of thinking through development of problem solutions 3 4
	2	accuracy of outcomes through appropriate use of tables and figures 2
	3	demonstrated understanding of statistical language 1
	4	clarity in communicating the ideas underpinning a problem solution, including correct use of statistical symbols and conventions 1 2 3

All - Assessment Task 3: Final exam

GOAL:	To assess knowledge gained during the 12 weeks of the course; the language of statistics, basic research design, sampling strategies, measures of central tendency and variability, analysing data and using a scientific calculator, the presentation of descriptive statistics, data distributions, z scores, and hypothesis testing, specifically using t tests.	
PRODUCT:	Examination	
FORMAT:	Online examination	
CRITERIA:	No.	Learning Outcome assessed
	1	clarity of thinking through development of problem solutions 3 4
	2	accuracy of outcomes through appropriate use of tables and figures 2
	3	demonstrated understanding of statistical language 1 2
	4	demonstrated understanding and application of hypothesis testing. 3
	5	clarity in communicating the ideas underpinning a problem solution, including correct use of statistical symbols and conventions. 1 3 4

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. Directed study hours may vary by location. 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 Blackboard site– Please log in as soon as possible.

8.1. Prescribed text(s) or course reader

There are no required/recommended resources for this course.

8.2. Specific requirements

A scientific calculator is required for this course. A graphics or programmable calculator is not required but you may use one if you already own one.

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 Blackboard, are electronically checked through SafeAssign. This software allows for text comparisons to be made between your submitted assessment item and all other work that SafeAssign has access to.

10.2. Assessment: Additional Requirements

Eligibility for Supplementary Assessment

Your eligibility for supplementary assessment in a course is dependent of the following conditions applying:

The final mark is in the percentage range 47% to 49.4%

The course is graded using the Standard Grading scale

You have not failed an assessment task in the course due to academic misconduct

10.3. Assessment: Submission penalties

Late submission of assessment tasks may be penalised at the following maximum rate:

- 5% (of the assessment task's identified value) per day for the first two days from the date identified as the due date for the assessment task.

- 10% (of the assessment task's identified value) for the third day - 20% (of the assessment task's identified value) for the fourth day and subsequent days up to and including seven days from the date identified as the due date for the assessment task.

- A result of zero is awarded for an assessment task submitted after seven days from the date identified as the due date for the assessment task. Weekdays and weekends are included in the calculation of days late. To request an extension you must contact your course coordinator to negotiate an outcome.

10.4. 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.

10.5. 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.

10.6. 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.

10.7. 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
- Administration of Central Examinations
- Deferred Examinations
- Student Academic Misconduct
- Students with a Disability

Visit the USC website: <http://www.usc.edu.au/explore/policies-and-procedures#academic-learning-and-teaching>

10.8. General Enquiries

In person:

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

Tel: +61 7 5430 2890

Email: studentcentral@usc.edu.au