

ENG302

# Engineering Project Management

**School:** School of Science, Technology and Engineering

2024 | Semester 1

UniSC Sunshine Coast  
UniSC Moreton Bay**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 [usc.edu.au](http://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

In professional practice, most engineers will spend significant amounts of time managing projects. ENG302 aims to provide you with appropriate knowledge, skills and techniques that would be used to maximise project outcomes and success. This will be useful for your final-year project proposal, and will include areas such as project life cycle, project management processes, project scope, time management, quality, and procurement.

### 1.2. How will this course be delivered?

ACTIVITY	HOURS	BEGINNING WEEK	FREQUENCY
<b>BLENDED LEARNING</b>			
<b>Learning materials</b> – Asynchronous Learning Material	1hr	Week 1	13 times
<b>Tutorial/Workshop 1</b> – On campus workshop	2hrs	Week 1	13 times
<b>ONLINE</b>			
<b>Learning materials</b> – Asynchronous Learning Material	1hr	Week 1	13 times
<b>Tutorial/Workshop 1</b> – Online workshop	2hrs	Week 1	13 times

1.3. Course Topics

- Project concepts
- Organisational capability
- Leading and managing project teams
- Project stakeholder analysis and communications planning
- Project scope planning
- Scheduling and resourcing projects
- Project budget
- Project risk management
- Quality planning and project supply chain management
- Project progress and results
- Project finishing

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	GRADUATE QUALITIES
On successful completion of this course, you should be able to...	Completing these tasks successfully will contribute to you becoming...
1 understand and explain the nature of engineering projects	Knowledgeable Creative and critical thinker
2 illustrate and understand how engineering project activities may be influenced by economic, environment, societal and organisational factors	Knowledgeable Sustainability-focussed
3 access and evaluate information relevant to an engineering project	Knowledgeable Empowered
4 understand complex issues associated with engineering projects	Knowledgeable Creative and critical thinker
5 understand ethical dimensions associated with conducting an engineering project	Creative and critical thinker Ethical

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

Not applicable

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

Formative feedback provided in weekly workshop exercises and in class discussions.

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	Artefact - Professional, and Written Piece	Individual	20%	1500 words	Week 5	Online Assignment Submission with plagiarism check
All	2	Report	Individual	40%	1500 words	Week 9	Online Assignment Submission with plagiarism check
All	3	Report	Individual	40%	2000 Word	Week 12	Online Assignment Submission with plagiarism check and in class

All - Assessment Task 1: Project Management Charter

GOAL:	Demonstrate an understanding of the concepts relating to the management of a project.		
PRODUCT:	Artefact - Professional, and Written Piece		
FORMAT:	Individual submission creating a project charter based on a case study.		
CRITERIA:	No.		Learning Outcome assessed
	1	Create a project charter detailing an effective solution to a case study.	2 3
	2	Apply a sophisticated level of understanding of discipline specific knowledge and skills to solve problems	3 4 5
	3	Apply professional communications skills and ability to describe an effective project charter.	1 2
GENERIC SKILLS:	Problem solving, Applying technologies, Information literacy		

### All - Assessment Task 2: Project Plan

<b>GOAL:</b>	Demonstrate an understanding of the concepts relating to the management of a project by creating sections of a project plan, in response to a case study.		
<b>PRODUCT:</b>	Report		
<b>FORMAT:</b>	Individual submission		
<b>CRITERIA:</b>	<b>No.</b>		<b>Learning Outcome assessed</b>
	1	demonstrate capacity to develop, appraise and articulate informed and effective audience appropriate project communication. report, referencing	1 3 4 5
	2	Use creativity and discipline knowledge to structure an effective solution to a case study in the required discipline	2 3 4
	3	Apply a sophisticated level of understanding of the requirements for engineering or ICT projects with discipline specific knowledge and skills to solve problems and produce a practical project plan.	3 4 5
<b>GENERIC SKILLS:</b>	Communication, Problem solving, Applying technologies, Information literacy		

### All - Assessment Task 3: Project Plan

<b>GOAL:</b>	Demonstrate an understanding of the concepts relating to the management of a project by creating sections of a project plan, in response to a case study.		
<b>PRODUCT:</b>	Report		
<b>FORMAT:</b>	Individual submission		
<b>CRITERIA:</b>	<b>No.</b>		<b>Learning Outcome assessed</b>
	1	demonstrate capacity to develop, appraise and articulate informed and effective audience appropriate project communication. report, referencing	1 3 4 5
	2	Use creativity and discipline knowledge to structure an effective solution to a case study in the required discipline	2 3 4
	3	Apply a sophisticated level of understanding of the requirements for engineering or ICT projects with discipline specific knowledge and skills to solve problems and produce a practical project plan	2 3 4
<b>GENERIC SKILLS:</b>	Communication, Problem solving, 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

There are no required/recommended resources for this course.

### 8.2. Specific requirements

Not applicable

## 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:

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. 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](tel:0754301168) or using the [SafeZone](#) app. For general enquires contact the SafeUniSC team by phone [07 5456 3864](tel:0754563864) or email [safe@usc.edu.au](mailto: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](tel:0754301226) or email [studentwellbeing@usc.edu.au](mailto: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](mailto: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](mailto: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](mailto: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](mailto:studentcentral@usc.edu.au)