

ENG402 Engineering Project 2

School: School of Science, Technology and Engineering

2026 | Trimester 2

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.

Please go to unisc.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

The final year project (ENG401 and ENG402) represents the capstone and culmination of your four-year engineering degree. It allows you to demonstrate that you can put engineering theory into practice and operate at a professional level. The overall aim of this course is to provide you with the opportunity to demonstrate proficiency in engineering research and design. This will be done through an approved research or design project and the production of a report and oral defence that clearly present your 'results' and evidence the application of engineering technical skills and knowledge.

1.2. How will this course be delivered?

ACTIVITY	HOURS	BEGINNING WEEK	FREQUENCY
BLENDED LEARNING			
Tutorial/Workshop 1 – Online workshop	2hrs	Week 1	4 times
Independent Study/Research – Independent work is expected every week. Hours/duration will depend on the individual project. Minimum expected hours is 10 hours per week.	10hrs	Week 1	12 times

1.3. Course Topics

Planning and execution of final year engineering project
Conducting of research relevant to the engineering discipline
Roles and responsibilities in an engineering project
Collaborative work with an Advisor and project team
Communication of project information in various forms

2. What level is this course?

400 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 MAPPING	PROFESSIONAL STANDARD MAPPING *
On successful completion of this course, you should be able to...	Completing these tasks successfully will contribute to you becoming...	Engineers Australia Stage 1 Professional Engineer Competency Standards
1 Apply the Engineering Process to conduct an engineering project.	Empowered	1, 2
2 Challenge engineering practice and contribute to new developments in your engineering discipline.	Empowered Engaged	1, 2
3 Define a problem and formulate a problem statement.	Empowered	1, 2, 3
4 Review, engage and challenge the (research) literature in a specialist domain / an engineering discipline.	Ethical Engaged	1, 2, 3
5 Develop and design concepts, solutions and procedures in your engineering discipline.	Creative and critical thinker Engaged	1, 2
6 Test and evaluate your concepts, solutions and procedures to reach informed decisions.	Empowered Sustainability-focussed	1, 2
7 Reflect on and evaluate the project impacts for the community (e.g. engineering discipline) and environment.	Ethical Sustainability-focussed	2, 3
8 Manage your project incl. planning, organising and managing resources and prioritising competing demands.	Empowered Engaged	2, 3
9 Communicate about your project, its development and outcomes to a professional audience in several media.	Engaged	3
10 Work collaboratively in a project team.	Engaged	3

* Competencies by Professional Body

CODE	COMPETENCY
ENGINEERS AUSTRALIA STAGE 1 PROFESSIONAL ENGINEER COMPETENCY STANDARDS	
1	Elements of competency: Knowledge and Skill Base
2	Elements of competency: Engineering Application Ability
3	Elements of competency: Professional and Personal Attributes

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

ENG401 OR ENG406

5.2. Co-requisites

Not applicable

5.3. Anti-requisites

Not applicable

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

Not applicable

5.5. Microcredential Information

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

You will meet with your Academic Advisor(s) for your Project Preview in Week 1, when you will receive advice and guidelines to complete your project. You will have consistent contact with your Academic Advisor(s) during the whole trimester.

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	Activity Participation	Individual or Group	10%	15 to 30 minutes meeting (face to face or online).	Refer to Format	To Supervisor
All	2	Written Piece	Individual or Group	80%	Between 10,000 and 20,000 words, noting the size of your dissertation must be representative of the unit value and be consistent with the discipline standards (or norms) for length in words, pages and/or other content.	Week 12	Online Assignment Submission with plagiarism check
All	3	Oral	Individual or Group	10%	Individual: 15 - 20 minutes including question time, Group: 30 - 40 minutes including question time.	Exam Period	In Class

All - Assessment Task 1: Checkpoints

GOAL:	The purpose of the Checkpoints are to keep record and review your progress (to your Research plan), and to give you (or your group) critical and timely feedback about the execution of your project.		
PRODUCT:	Activity Participation		
AUTHORSHIP STATEMENT:			
FORMAT:	You (or your group) will meet with your Advisor (face to face or online) to present and review your progress. You will receive feedback about your progress and the execution of your project. You will also plan the subsequent phase/activities of your project incl. your submissions. Your Advisor signs off your logbook at the end of each meeting. These reviews are supported by the records of your logbook, noting you are required to maintain a logbook for the entire duration of your project (ENG401 and ENG402). You will record the minutes of your meeting in your logbook. You will complete checkpoints in Weeks 1, 3, 5, 8, 11 and 14 (subject to changes). Check the LMS for details of each checkpoints.		
CRITERIA:	No.		Learning Outcome assessed
	1	Communication of the progress to date	9
	2	Consistent progress towards project aims	8
	3	Ethical conduct and professional accountability	8
	4	Effective oral and written communication in professional and lay domains.	9
	5	Orderly management of self, and professional conduct.	8
	6	Effective team membership and team leadership. (Group only)	10
GENERIC SKILLS:	Communication, Collaboration, Organisation, Information literacy		

All - Assessment Task 2: Final report

GOAL:	The purpose of your Final report is to present what you (or your group) have achieved with your project showcasing its outcome and benefits.		
PRODUCT:	Written Piece		
AUTHORSHIP STATEMENT:			
FORMAT:	You (or your group) prepare the Final report of your project to a professional engineering standard that reflects your achievements at the end of ENG402. Your Report will be concisely worded, well-organised, and understandable to any engineers in the relevant field. The word count reflects and includes any previous documents of ENG401 and ENG402. Check the LMS for details about your Dissertation.		
CRITERIA:	No.	Learning Outcome assessed	
	1	Application of advanced knowledge and skills	1
	2	Evaluation and consolidation of knowledge to provide a solution to a complex engineering problem with intellectual independence.	2 4
	3	Identification of factors likely to influence engineering project outcomes	7
	4	Discernment of knowledge development and research directions within the engineering discipline.	2 3
	5	Application of established engineering methods to complex engineering problem solving.	5 6
	6	Effective team membership and team leadership (Group only).	10
	7	Application of fundamental principles of project management	8
	8	Organisation, presentation, and communication of project	9
	9	Appropriate format and use of report structure, grammar and syntax, referencing	9
GENERIC SKILLS:	Communication, Collaboration, Organisation		

All - Assessment Task 3: Project presentation

GOAL:	The purpose of the Project presentation is to present your report for examination via oral presentation.		
PRODUCT:	Oral		
AUTHORSHIP STATEMENT:			
FORMAT:	You (or your group) deliver an oral presentation of your report supported by visual aids followed by a Q&A session. Check the LMS for details about your Oral presentation.		
CRITERIA:	No.		Learning Outcome assessed
	1	Communicate project findings in an oral format using appropriate terminology and visual aids to a professional audience	9
	2	Evaluation of project and discussion including responding to comments and questions	9
	3	Identification of factors likely to influence engineering project outcomes	7
	4	Application of fundamental principles of project management	8
	5	If you are in a group, you are awarded an individual grade for this task. Your mark may be determined by an algorithm that uses the Examiners' assessment and marks. A benchmarking approach may also be used.	10
	6	Effective team membership and team leadership. (Group only)	10
GENERIC SKILLS:	Communication, Organisation		

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

You will be required to discuss with your Advisor(s) any specific requirements and needs, e.g. laboratory equipment, software, that you believe your project may have.

9. How are risks managed in this course?

Risk assessments have been performed for all studio and laboratory classes and a low level of health and safety risk exists. Some risk concerns may include equipment, instruments, and tools; as well as manual handling items within the laboratory. It is your responsibility to review course material, search online, discuss with lecturers and peers and understand the 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

As per the Supplementary Assessment - Procedures, this course is not eligible for Supplementary Assessment.

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. 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>

10.5. 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.

10.6. General Enquiries

For course-specific questions, contact your teaching staff or Course Coordinator.

For other enquiries or to access support, please contact Student Central:

- [UniSC Student Central](#)
- [UniSC Adelaide Student Central](#)