



## UNSW Course Outline

# ZPEM8103 Explosive Ordnance Research Project - 2024

Published on the 11 Feb 2024

## General Course Information

Course Code : ZPEM8103

Year : 2024

Term : Semester 1

Teaching Period : Z1

Is a multi-term course? : No

Faculty : UNSW Canberra

Academic Unit : UC Science

Delivery Mode : In Person

Delivery Format : Standard

Delivery Location : UNSW Canberra at ADFA

Campus : UNSW Canberra

Study Level : Postgraduate

Units of Credit : 6

### Useful Links

[Handbook Class Timetable](#)

## Course Details & Outcomes

### Course Description

Students in the Explosive Ordnance (EO) Masters Program will undertake a research-based project together with coursework as set by the School. As one of the aims of the EO Masters program is to develop critical thinking and independent research skills, the projects will involve

research experience in collaboration with staff members and their research teams. A supervisor, who is a member of academic staff, will work closely with the student and will manage each project. The project will be chosen after discussion between the student, the supervisor and other members of staff. Enrolment in this course is only open to students nominated by the Department of Defence.

Note: This is a 12 UoC course. You will enrol in 6 UoC in each of 2 successive semesters with a result reported by a single grade at the end of the second 6 UoC course.

## **Course Aims**

The aim of this course is to reinforce theory learned in the EO Masters program, develop critical thinking and independent research skills, develop confidence and fluency in scientific communication, and to increase disciplinary knowledge in a chosen research area. It is a core course in the EO Masters.

## **Relationship to Other Courses**

The Research Project is a capstone course in the Master of Explosive Ordnance program. For part-time study, this course will generally be taken during the final two semesters of enrolment.

# Course Learning Outcomes

Course Learning Outcomes
CLO1 : Undertake independent literature searches appropriate to the project.
CLO2 : Write a substantial literature review of publishable standard.
CLO3 : Develop a coherent research plan and design appropriate experiments
CLO4 : Analyse and interpret data collected.
CLO5 : Communicate the context, methodology, results, interpretation and implications of the research project in written and oral formats.

Course Learning Outcomes	Assessment Item
CLO1 : Undertake independent literature searches appropriate to the project.	<ul style="list-style-type: none"><li>• Literature report</li><li>• Research report</li></ul>
CLO2 : Write a substantial literature review of publishable standard.	<ul style="list-style-type: none"><li>• Literature report</li><li>• Research report</li></ul>
CLO3 : Develop a coherent research plan and design appropriate experiments	<ul style="list-style-type: none"><li>• Research Seminar</li><li>• Research report</li></ul>
CLO4 : Analyse and interpret data collected.	<ul style="list-style-type: none"><li>• Research Seminar</li><li>• Research report</li></ul>
CLO5 : Communicate the context, methodology, results, interpretation and implications of the research project in written and oral formats.	<ul style="list-style-type: none"><li>• Research Seminar</li><li>• Research report</li></ul>

## Learning and Teaching Technologies

Moodle - Learning Management System

## Learning and Teaching in this course

Supervisors will support students in undertaking research projects to investigate topic relating to the science/technology of energetic materials and/or explosive ordnance. Though the conduct of research, students develop their critical thinking and independent research skills, develop skills in scientific communication, and increase their disciplinary knowledge.

## Additional Course Information

Your primary point of contact for this course will generally be your **project supervisor**. You should be proactive in making arrangements to meet with your supervisor regularly, especially early on, as you begin to frame your research.

For course administration matters, the **course convenor** is usually available for additional consultation during normal working hours; please email to make an appointment.

**Research topics:** a list of research projects and supervisors will be made available on Moodle approximately two weeks prior to the start of semester. Contact the relevant project supervisor (details provided on the list) to find out more about a particular topic or to choose that project. Projects will be taken off the list as they are chosen, on a first-come-first-served basis. The project list includes information on the expectations for on-campus attendance for the particular project, with some projects requiring more laboratory time (in Canberra) than others. You may also propose your own topic, and this will be accommodated where possible (contact the **course convenor** to discuss). All projects must be capable of satisfying the learning outcomes of the course and be supervised by a UNSW Canberra academic with appropriate experience.

## Assessments

### Assessment Structure

Assessment Item	Weight	Relevant Dates
Literature report Assessment Format: Individual	15%	Start Date: Not Applicable Due Date: End of the first semester of enrolment.
Research Seminar Assessment Format: Individual	15%	Start Date: Not Applicable Due Date: Following submission of the final report
Research report Assessment Format: Individual	70%	Start Date: Not Applicable Due Date: End of the second semester of project enrolment.

## Assessment Details

### Literature report

#### Course Learning Outcomes

- CL01 : Undertake independent literature searches appropriate to the project.
- CL02 : Write a substantial literature review of publishable standard.

#### Assessment information

*For assessment in this course you may use standard editing and referencing software, but not generative AI such as ChatGPT. If the use of generative AI such as ChatGPT is detected, it will be regarded as serious academic misconduct and subject to the standard penalties, which may include 00FL, suspension and exclusion.*

### Assignment submission Turnitin type

This assignment is submitted through Turnitin and students do not see Turnitin similarity reports.

## **Research Seminar**

### Course Learning Outcomes

- CL03 : Develop a coherent research plan and design appropriate experiments
- CL04 : Analyse and interpret data collected.
- CL05 : Communicate the context, methodology, results, interpretation and implications of the research project in written and oral formats.

### Detailed Assessment Description

Following submission of the final report, students will present a final seminar that will also be graded by their supervisor and the assessor. This should be approximately 20 minutes in length, with a further 5 minutes allowed for questions. The seminar should summarise the context, methodologies, results and conclusions of the research. Seminars may be delivered online or in person.

### Assessment Length

Approximately 20 minutes plus approximately 5 minutes for questions.

### Assignment submission Turnitin type

Not Applicable

## **Research report**

### Course Learning Outcomes

- CL01 : Undertake independent literature searches appropriate to the project.
- CL02 : Write a substantial literature review of publishable standard.
- CL03 : Develop a coherent research plan and design appropriate experiments
- CL04 : Analyse and interpret data collected.
- CL05 : Communicate the context, methodology, results, interpretation and implications of the research project in written and oral formats.

### Assessment information

*For assessment in this course you may use standard editing and referencing software, but not generative AI such as ChatGPT. If the use of generative AI such as ChatGPT is detected, it will be regarded as serious academic misconduct and subject to the standard penalties, which may include 00FL, suspension and exclusion.*

### Assignment submission Turnitin type

This assignment is submitted through Turnitin and students do not see Turnitin similarity reports.

## General Assessment Information

*For assessment in this course you may use standard editing and referencing software, but not generative AI such as ChatGPT. If the use of generative AI such as ChatGPT is detected, it will be regarded as serious academic misconduct and subject to the standard penalties, which may include 00FL, suspension and exclusion.*

A discipline-appropriate referencing style for reports and presentation should be adopted in consultation with the supervisor, and used consistently. Information on referencing styles is available at: <https://guides.lib.unsw.adfa.edu.au/c.php?g=472948&p=3246720>

### Grading Basis

Standard

### Requirements to pass course

Students must complete/submit all assessments, and must obtain 50% overall.

## Course Schedule

### Attendance Requirements

Some projects will require attendance at campus. Indicative in-prson hours for each project are provided on the project list, with final arrangements to be agreed in consultation with the project supervisor.

### General Schedule Information

At the beginning of the session, the student and supervisor will agree on modes and frequency of consultation, and the arrangements, if any, for in-person attendance. They should also schedule relevant milestones for the completion of the particular project.

## Course Resources

### Recommended Resources

*Research project supervisors will direct students to appropriate project-specific resources.*

# Course Evaluation and Development

## Course Evaluation and Development

*One of the key priorities in the 2025 Strategy for UNSW is a drive for academic excellence in education. One of the ways of determining how well UNSW is progressing towards this goal is by listening to our own students. Students will be asked to complete the myExperience survey towards the end of this course.*

*Students can also provide feedback during the semester via: direct contact with the lecturer, the "On-going Student Feedback" link in Moodle, Student-Staff Liaison Committee meetings in schools, informal feedback conducted by staff, and focus groups. Student opinions really do make a difference. Refer to the Moodle site for this course to see how the feedback from previous students has contributed to the course development.*

**Important note:** *Students are reminded that any feedback provided should be constructive and professional and that they are bound by the Student Code of Conduct Policy*

<https://www.gs.unsw.edu.au/policy/documents/studentcodepolicy.pdf>

## Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
Convenor	Lynne Wallace		Room 213, Science North (B22), UNSW Canberra	+61 2 5114 5047	Normally available during office hours Mon-Fri 0900-1700 or via email.	No	Yes

## Other Useful Information

### Academic Information

#### Course Evaluation and Development

One of the key priorities in the 2025 Strategy for UNSW is a drive for academic excellence in education. One of the ways of determining how well UNSW is progressing towards this goal is by listening to our own students. Students will be asked to complete the myExperience survey towards the end of each course.

Students can also provide feedback during the semester via: direct contact with the lecturer, the “On-going Student Feedback” link in Moodle, Student-Staff Liaison Committee meetings in schools, informal feedback conducted by staff, and focus groups (where applicable). Student opinions really do make a difference. Refer to the Moodle site for your course to see how the feedback from previous students has contributed to the course development.

Important note: Students are reminded that any feedback provided should be constructive and professional and that they are bound by the Student Code of Conduct.

<https://www.gs.unsw.edu.au/policy/documents/studentcodepolicy.pdf>

### **Equitable Learning Services (ELS)**

Students living with neurodivergent, physical and/or mental health conditions or caring for someone with these conditions may be eligible for support through the Equitable Learning Services team. Equitable Learning Services is a free and confidential service that provides practical support to ensure your mental or physical health conditions do not adversely affect your studies.

Our team of dedicated **Equitable Learning Facilitators (ELFs)** are here to assist you through this process. We offer a number of services to make your education at UNSW easier and more equitable.

Further information about ELS for currently enrolled students can be found at: <https://www.student.unsw.edu.au/equitable-learning>

### **Academic Honesty and Plagiarism**

UNSW has an ongoing commitment to fostering a culture of learning informed by academic integrity. All UNSW staff and students have a responsibility to adhere to this principle of academic integrity. All students are expected to adhere to UNSW’s Student Code of Conduct. Find relevant information at: [Student Code of Conduct \(unsw.edu.au\)](https://www.unsw.edu.au/student-code-of-conduct)

Plagiarism undermines academic integrity and is not tolerated at UNSW. It is defined as using the words or ideas of others and passing them off as your own, and can take many forms, from deliberate cheating to accidental copying from a source without acknowledgement.

For more information, please refer to the following:



## Submission of Assessment Tasks

### Special Consideration

Special Consideration is the process for assessing and addressing the impact on students of short-term events, that are beyond the control of the student, and that affect performance in a specific assessment task or tasks.

Applications for Special Consideration will be accepted in the following circumstances only:

- Where academic work has been hampered to a substantial degree by illness or other cause;
- The circumstances are unexpected and beyond the student's control;
- The circumstances could not have reasonably been anticipated, avoided or guarded against by the student; and either:

(i) they occurred during a critical study period and was 3 consecutive days or more duration, or a total of 5 days within the critical study period; or

(ii) they prevented the ability to complete, attend or submit an assessment task for a specific date (e.g. final exam, in class test/quiz, in class presentation)

Applications for Special Consideration must be made as soon as practicable after the problem occurs and at the latest within three working days of the assessment or the period covered by the supporting documentation.

By sitting or submitting the assessment task the student is declaring that they are fit to do so and cannot later apply for Special Consideration (UNSW 'fit to sit or submit' requirement).

Sitting, accessing or submitting an assessment task on the scheduled assessment date, after applying for special consideration, renders the special consideration application void.

Find more information about special consideration at: <https://www.student.unsw.edu.au/special/consideration/guide>

Or apply for special consideration through your [MyUNSW portal](#).

### Late Submission of assessment tasks (other than examinations)

UNSW has a standard late submission penalty of:

- 5% per day,
- capped at five days (120 hours) from the assessment deadline, after which a student cannot submit an assessment, and
- no permitted variation.

Students are expected to manage their time to meet deadlines and to request extensions as early as possible before the deadline.

### **Electronic submission of assessment**

Except where the nature of an assessment task precludes its electronic submission, all assessments must be submitted to an electronic repository, approved by UNSW or the Faculty, for archiving and subsequent marking and analysis.

### **Release of final mark**

All marks obtained for assessment items during the session are provisional. The final mark as published by the university following the assessment review group meeting is the only official mark.