Overview

The Master of Engineering Science enables students with appropriate undergraduate qualifications to undertake more advanced study in engineering.

The Master of Engineering Science program provides students with the opportunity to acquire high level understanding and advanced analytical skills in the key areas that span the engineering disciplines and the management of projects frequently incorporating those engineering disciplines. There is strong emphasis on extending undergraduate skills and knowledge and vocational experiences to enable graduates to apply their high level understanding to real world complex engineering problems and their management.
<table>
<thead>
<tr>
<th><strong>Faculty</strong></th>
<th>UNSW Canberra at ADFA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Campus</strong></td>
<td>Canberra</td>
</tr>
<tr>
<td><strong>Study Level</strong></td>
<td>Postgraduate</td>
</tr>
<tr>
<td><strong>Typical duration</strong></td>
<td>1 Years</td>
</tr>
<tr>
<td><strong>Delivery Mode</strong></td>
<td>Face-to-face</td>
</tr>
<tr>
<td><strong>Intake Period</strong></td>
<td>Semester 1, Semester 2</td>
</tr>
<tr>
<td><strong>Academic Calendar</strong></td>
<td>UNSW Canberra Calendar</td>
</tr>
<tr>
<td><strong>Minimum Units of Credit</strong></td>
<td>48</td>
</tr>
<tr>
<td><strong>Award type</strong></td>
<td>Masters (Coursework)</td>
</tr>
<tr>
<td><strong>Award(s)</strong></td>
<td>Master of Engineering Science - MEngSc</td>
</tr>
<tr>
<td><strong>CRICOS Code</strong></td>
<td>001226G</td>
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</table>
Learning Outcomes

1. demonstrate interdisciplinary knowledge and skills and an ability to apply those in a range of engineering contexts.

2. communicate effectively to a range of audiences and be capable of independent and collaborative inquiry, working effectively with others.

3. demonstrate the application of knowledge and skills with high level personal autonomy and accountability.

4. demonstrate advanced critical thinking and problem solving skills, particularly as applied to the knowledge areas of engineering in a range of system development contexts.

5. demonstrate an awareness of international issues as they relate to engineering in a range of engineering contexts.

6. demonstrate the application of knowledge and skills with creativity and initiative in new situations in the engineering of systems.

7. demonstrate the application of knowledge and skills to plan and execute a substantial research-based project or piece of scholarship associated with the knowledge areas of engineering in a range of development contexts.

Graduate Capabilities:

For more information on Graduate Capabilities, please click on this link.
Program Structure

Students must complete 48 UOC as a standalone program.

Prescribed Electives

Students may, with the approval of the Postgraduate Co-ordinator, complete up to two courses (12 UOC) from other coursework programs of equivalent academic standard.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZEIT8008</td>
<td>6 UOC</td>
<td>Space Systems Design</td>
</tr>
<tr>
<td>ZEIT8009</td>
<td>6 UOC</td>
<td>Global Navigation Satellite Systems (GNSS)</td>
</tr>
<tr>
<td>ZEIT8020</td>
<td>6 UOC</td>
<td>Cyber Offence: Threats and Opportunities</td>
</tr>
<tr>
<td>ZEIT8021</td>
<td>6 UOC</td>
<td>Information Assurance and Security</td>
</tr>
<tr>
<td>ZEIT8023</td>
<td>6 UOC</td>
<td>Wireless, Mobile and Internet of Things Security</td>
</tr>
<tr>
<td>ZEIT8031</td>
<td>6 UOC</td>
<td>Reliability Engineering Fundamentals</td>
</tr>
<tr>
<td>ZEIT8039</td>
<td>6 UOC</td>
<td>Reliability Engineering Assurance</td>
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<tr>
<td>ZEIT8115</td>
<td>6 UOC</td>
<td>Information Operations</td>
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<td>ZEIT8119</td>
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</tr>
<tr>
<td>ZEIT8506</td>
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</table>

**Enrolment Disclaimer**

Unless advised otherwise by your program authority, you should follow the rules for the handbook for the year you commenced your program. You are also responsible for ensuring you enrol in courses according to your program requirements. myUNSW
enrolment checks that you have met enrolment requirements such as pre-requisites for individual courses but not that a course will count towards your program requirements.
Related Programs

Master of Systems Engineering - **MSysEng**
**8567 Systems Engineering**

Faculty: UNSW Canberra at ADFA
Campus: Canberra
Units of Credit: 48
Typical Duration: 1 Years

Read More
Admission Requirements

Entry Requirements

To gain entry into a Master of Engineering Science (8569), an applicant must meet one of the following entry requirements:

1. Completion of a Bachelor degree with honours in the same or a related discipline* from a recognised institution; or

2. Completion of a Graduate Diploma or Graduate Certificate in the same or a related discipline* from a recognised institution; or

3. Completion of a Bachelor degree in the same or a related discipline* from a recognised institution; and completion of at least three years relevant full-time professional experience; or

4. Completion of a Bachelor degree in a non-related discipline; and completion of at least four years relevant full-time professional experience; or

5. Evidence of other qualifications and professional experience to be assessed as acceptable grounds for admission into the program by the relevant Program Authority. In certain circumstances, students may be required to undertake and successfully complete a relevant non-award course as a condition for admission into the program. This non-award course may also be credited towards the program upon admission.

*Related Discipline/s: Engineering

For more information about admission requirements for various UNSW programs, visit the following website(s):

Domestic Students
International Student
Pathways

Post Graduate

Doctor of Philosophy - PhD

1620 Systems Engineering

Faculty: UNSW Canberra at ADFA
Campus: Canberra
Units of Credit: 144
Typical Duration: 3 to 4 Years

Read More

Doctor of Philosophy - PhD

1643 Electrical Engineering

Faculty: UNSW Canberra at ADFA
Campus: Canberra
Units of Credit: 144
Typical Duration: 3 to 4 Years

Read More

Doctor of Philosophy - PhD

1663 Aerospace Engineering

Faculty: UNSW Canberra at ADFA
Campus: Canberra
Units of Credit: 144
Typical Duration: 3 to 4 Years

Read More

Doctor of Systems Engineering - DSysEng

1741 Systems Engineering

Faculty: UNSW Canberra at ADFA
Campus: Canberra
Units of Credit: 144
Typical Duration: 3 Years

Read More

Doctor of Information Technology - ITD

1743 Information Technology
Faculty: UNSW Canberra at ADFA
Campus: Canberra
Units of Credit: 144
Typical Duration: 3 Years

Read More
Master of Philosophy - MPhil
2227 Aerospace, Civil & Mech Eng

Faculty: UNSW Canberra at ADFA
Campus: Canberra
Units of Credit: 72
Typical Duration: 1.5 Years

Read More
Master of Philosophy - MPhil
2228 Info Tech & Electrical Eng

Faculty: UNSW Canberra at ADFA
Campus: Canberra
Units of Credit: 72
Typical Duration: 1.5 Years

Read More
Master of Engineering - ME
2663 Electrical Engineering

Faculty: UNSW Canberra at ADFA
Campus: Canberra
Units of Credit: 96
Typical Duration: 2 Years

Read More
Master of Engineering - ME
2693 Aerospace Engineering

Faculty: UNSW Canberra at ADFA
Campus: Canberra
Units of Credit: 96
Typical Duration: 2 Years

Read More
Recognition of Achievement

Award with Excellence

The Award with Excellence is awarded in coursework masters programs, including Masters (Extension) but with the exception of Masters (Extended) such as JD and MD, when a Weighted Average Mean (WAM) of at least 80% has been achieved and at least 50% of the requirements of the award are completed at UNSW. All eligible programs will award 'with Excellence' except in special circumstances where approval of Academic Board has been given for a program to opt out.

For more information, please visit:

Current Students Award with Excellence
Program Fees

At UNSW fees are generally charged at course level and therefore dependent upon individual enrolment and other factors such as student's residency status. For generic information on fees and additional expenses of UNSW programs, click on one of the following:

- Domestic Students
- Commonwealth Supported Students
- International Students
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)
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Authorised by Deputy Vice-Chancellor (Academic)
CRICOS Provider Code 00098G
ABN: 57 195 873 179