Overview

The Master of Decision Analytics, (MDA), is designed for postgraduate scholars with an undergraduate qualification and/or extensive professional experience who wish to develop a high level understanding of the principles and practices of decision analytics and to strengthen their skills in this area.

The MDA program aims to allow students to develop a high level of understanding of the principles and practices of qualitative and quantitative decision making tools for analysing complex operations environments and making appropriate decisions within that environment.
<table>
<thead>
<tr>
<th><strong>Faculty</strong></th>
<th>UNSW Canberra at ADFA</th>
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<tbody>
<tr>
<td><strong>Campus</strong></td>
<td>Canberra</td>
</tr>
<tr>
<td><strong>Study Level</strong></td>
<td>Postgraduate</td>
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<tr>
<td><strong>Typical duration</strong></td>
<td>1 Years</td>
</tr>
<tr>
<td><strong>Delivery Mode</strong></td>
<td>Distance</td>
</tr>
<tr>
<td><strong>Intake Period</strong></td>
<td>Semester 1, Semester 2</td>
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<td><strong>Academic Calendar</strong></td>
<td>UNSW Canberra Calendar</td>
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<td><strong>Minimum Units of Credit</strong></td>
<td>48</td>
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<tr>
<td><strong>Award type</strong></td>
<td>Masters (Coursework)</td>
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<tr>
<td><strong>Award(s)</strong></td>
<td>Master of Decision Analytics - MDA</td>
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Learning Outcomes

1. Evaluate the accuracy and effectiveness of solutions to decision-making problems using defined tools and processes;
   **Leaders**  **Professionals**

2. Demonstrate awareness in projects of relevant and current issues as they relate to decision-making tools and processes;
   **Professionals**  **Leaders**

3. Critically analyse the decision-making process using quantitative data analysis and experimentation methodologies;
   **Professionals**  **Scholars**

4. Demonstrate through projects, ethical, self-directed practice by synthesising decision-making problems from real-life situations, applying appropriate techniques to analyse the solutions, and appropriately interpreting the solutions for stakeholders.
   **Professionals**  **Global Citizens**

5. Use inquiry-based methodologies to synthesize complex information in formulating decision-making problems;
   **Professionals**  **Scholars**  **Leaders**

6. Articulate a broad and complex body of knowledge about modelling tools for various types of complex decision problems;
   **Scholars**  **Professionals**

7. Investigate the capability and limitations, and use of modelling tools and decision-making techniques to make complex decisions;
   **Professionals**  **Scholars**

Graduate Capabilities:

For more information on Graduate Capabilities, please click on this [link](#).
Program Structure

Students must complete 48 UOC as a standalone program.

1. Core courses - 24 UOC
2. Prescribed elective courses - 24 UOC

Core Courses

Students must take 24 UOC of the following courses.

- ZEIT8402 | 6 UOC
  Evidence-based Decision Making

- ZEIT8403 | 6 UOC
  Capability Option Analysis

- ZEIT8404 | 6 UOC
  Decision Making Analytics

- ZEIT8412 | 6 UOC
  Simulation

Prescribed Electives

Students take up to 24 UOC of the following courses. Students may, with the approval of the Postgraduate Coordinator, take up to two courses (12 UOC) from other coursework programs.

- ZEIT8034 | 6 UOC
  Advanced Test and Evaluation Techniques

- ZEIT8303 | 6 UOC
  Project Management Body of Knowledge

- ZEIT8305 | 6 UOC
  Systems Thinking and Modelling
**Research Project**

Students can take a 12 UOC research project in one semester or across the two semesters.  
Note: Enrolment in the project is available to Masters students who obtain a high credit average or better in four core courses and is subject to approval by the Program Authority.

**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.
Admission Requirements

Entry Requirements

To gain entry into a Master of Decision Analytics (8634), 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, Business and Management, Mathematical Sciences and Information Technology.

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

Domestic Students
International Student
Program Requirements

Progression Requirements

Students who do not complete the full Master program requirements may exit the program with a Graduate Certificate in Operations Analysis (7634) qualification after completing a minimum 24 UOC. Of the four courses (24 UOC) students must have completed two core courses (ZEIT8402 Evidence-based Decision Making and ZEIT8404 Decision Making Analytics) plus two courses (core or elective). For any advanced standing granted on entry into the Masters program, a maximum 12 UOC (for the elective course only) advanced standing can be applied to the Graduate Certificate.

For more information on university policy on progression requirements please visit Academic Progression.
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)

Pre-2019 Handbook Editions
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Authorised by Deputy Vice-Chancellor (Academic)
CRICOS Provider Code 00098G
ABN: 57 195 873 179