Overview

This Professional Master of Science is a flexible coursework program delivered primarily online with some courses delivered through blended, face-to-face or intensive delivery modes. The program aims to qualify science or science-related professionals to integrate advanced bodies of scientific disciplinary knowledge with science professional skills and leadership skills in a range of contexts for professional practice.

The program is designed and delivered in partnership and consultation with industry and multi-disciplinary experts to ensure it is responsive to the current and emerging needs and trends in the national and global job markets. They will be able to develop advanced professional capabilities that are valued by industry, broaden the scope of their expertise to include leadership skills, deepen their primary expertise with latest developments and emerging technologies in the field, and explore science topic(s) that are complementary to their primary expertise.

Features of the program include:

- a work integrated learning component, where students undertake a professional experience project at their own workplace or as part of an external research team;
- a compulsory course in advanced communication, where students will have the opportunity to attend the UNSW Sydney campus for a week of intensive conference-style study*
- a suite of flexible electives covering a wide range of scientific areas of study.**

* Please note that all travel and accommodation costs will be at the student's own expense where applicable.

** Students are encouraged to plan their electives carefully as some will be offered
under a different academic calendar.
<table>
<thead>
<tr>
<th><strong>Faculty</strong></th>
<th>Faculty of Science</th>
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<tbody>
<tr>
<td><strong>Campus</strong></td>
<td>Kensington</td>
</tr>
<tr>
<td><strong>Study Level</strong></td>
<td>Postgraduate</td>
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<td><strong>Typical duration</strong></td>
<td>3 Years</td>
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<td><strong>Delivery Mode</strong></td>
<td>Face-to-face, Distance</td>
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<td><strong>Intake Period</strong></td>
<td>Term 2</td>
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<td><strong>Academic Calendar</strong></td>
<td>3+ Calendar</td>
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<td><strong>Minimum Units of Credit</strong></td>
<td>72</td>
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<td><strong>Award type</strong></td>
<td>Masters (Coursework)</td>
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<td><strong>Award(s)</strong></td>
<td>Master of Science (Professional) - MSciProf</td>
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Learning Outcomes

1. Integrate and apply advanced bodies of knowledge in disciplinary content areas, professional skills and qualities as well as leadership skills to perform, lead and innovate professional practice in areas of expertise

2. Apply inquiry-based and/or scientific research processes to promote innovation and enhancement of professional practice

3. Analyse, evaluate, synthesise and generate knowledge and new developments of ideas and understanding

4. Identify, provide, evaluate and reflect on solutions to complex problems with originality and innovation

5. Communicate and engage a range of specialist and non-specialist audiences for dissemination and advancement of information and ideas

6. Demonstrate initiative, creativity and judgement in specialised professional practice

7. Take responsibility for own learning and continuing professional development to become innovative professional and life-long learner

8. Demonstrate cultural, social, professional and ethical competence to be a responsible practitioner and a global citizen

9. Collaborate with colleagues as a team member and team leader

Graduate Capabilities:

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

Students must complete 72 UOC as a standalone program.

Core Courses

Students must take 18 UOC of the following courses.

**SCIF7000 | 6 UOC**
Advanced Communication Skills in Science

**SCIF7010 | 6 UOC**
Leading Science for Impact

**SCIF7020 | 6 UOC**
Critical Thinking in Scientific Practice

Core Courses - Project

Students must enrol in one of the following courses over two consecutive terms for a total of 12 UOC.

One of the following:

**SCIF7900 | 6 UOC**
Capstone Innovation Project

**SCIF7910 | 6 UOC**
Industry-Led Capstone Professional Experience Project

Prescribed Electives

Students must take at least 42 UOC of the following courses.

**BABS7010 | 6 UOC**
Introduction to Biotechnology Commercialisation

**BABS7020 | 6 UOC**
Biotechnology Commercialisation Strategy in Australia and Asia
COMM5040 | 6 UOC
Entrepreneurial Ecosystems

COMP9021 | 6 UOC
Principles of Programming

DATA9001 | 6 UOC
Fundamentals of Data Science

MATH5836 | 6 UOC
Data Mining and its Business Applications

MATS6006 | 6 UOC
Recycling of Materials

MATS6007 | 6 UOC
Sustainable Materials Engineering

MATS9010 | 6 UOC
Entrepreneurship and Commercialisation

PHYS9010 | 6 UOC
Quantum Technologies and Applications

PSYC5100 | 6 UOC
Executive Intelligence

PSYC5101 | 6 UOC
Innovative Mind

PSYC5102 | 6 UOC
Neuroscience in the Real World

SCIF7030 | 6 UOC
Globalisation, Diversity, and Inclusion in Science
Project Maturity Requirement

Students must complete 54 UOC before enrolling in either SCIF7910 Innovation Project or SCIF7900 Industry-led Professional Practice Project.

SCIF7900  |  6 UOC
Capstone Innovation Project

SCIF7910  |  6 UOC
Industry-Led Capstone Professional Experience Project

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

Admission

- Either with a Bachelor degree in a Science / Health Science or a Science-related field;
- or with a Bachelor degree in a field unrelated to Science / Health Science, but have a minimum of 2 years of working experience in a science or a Science / STEM-related industry.
- Ability to receive advanced standing of up to 12 UoC for those with relevant postgraduate studies.

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

Domestic Students
International Student
Pathways

Articulation Arrangements

Other program(s) within articulated suite:

Graduate Diploma in Science (Professional) - **GDSciProf**

**5958 Science (Professional)**

Faculty: Faculty of Science  
Campus: Kensington  
Units of Credit: 48  
Typical Duration: 2 Years

Read More

Graduate Certificate in Science (Professional) - **GCSciProf**

**7958 Science (Professional)**

Faculty: Faculty of Science  
Campus: Kensington  
Units of Credit: 24  
Typical Duration: 1 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)

Pre-2019 Handbook Editions