

Master of Science (MSc)

Program Code

MSC

Program Minimum Units

48

Standard Duration

2 Years

Program Faculty

Faculty of Sciences

AQF Level

09

Academic Year

2022

Special Notes

This program will not be offered in 2022

These Program Rules should be read in conjunction with the University's policies (<http://www.adelaide.edu.au/policies>).

Overview

The Master of Science provides students with advanced theoretical and practical knowledge in specialised scientific fields including Earth Science, Grape and Wine Science, International Agricultural Development and Plant Breeding Innovation. The program contains a compulsory core relevant to all science disciplines: communication and quantitative skills, critical analysis, project management and research ethics. Students can develop an understanding of specialised fields in which they have minimal previous knowledge through their choice of courses and a major research project.

The Master of Science is an AQF Level 9 qualification with a standard duration of 2 years.

Conditions

Interruption of program: Students must apply for permission from the Executive Dean or delegate before taking a Leave of Absence. Any extension of the leave without approval will result in the loss of place in the program but an application may be made to be re-admitted to the program subject to the admission procedures in place at the time.

Academic Program Rules for Master of Science (MSc)

There shall be a Master of Science (MSc).

Qualification Requirements

Academic Program

To qualify for the degree of Master of Science, the student must complete satisfactorily a program of study consisting of the following requirements with a combined total of not less than 48 units, comprising:

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1. Core courses to the value of 6 units
2. Courses to the value of 15 units towards the specialisation of their choice
 - Earth Science;
 - Grape and Wine Science;
 - Plant Breeding Innovation;
 - International Agricultural Development
3. Electives to the value of 9 units, which may include Internship or Study Tour courses
4. Research Project to the value of 18 units in the specialisation area

Core Courses

To satisfy the requirements for Core Courses students must complete courses to the value of 6 units.

SCIENCE 7020 [Communicating Science](#) (3 units)

SCIENCE 7025WT [Research Methodology](#) (3 units)

Specialisations

To satisfy the requirements for Specialisations students must complete courses to the value of 15 units.

Earth Science

All of the following courses must be completed:

GEOLOGY 7030 [Igneous and Metamorphic Geology](#) (3 units)

GEOLOGY 7060 [Exploration Methods](#) (3 units)

GEOLOGY 7065 [Mineral and Energy Resources](#) (3 units)

GEOLOGY 7070 [Research Concepts in Earth Science](#) (3 units)

SPATIAL 7008 [Earth Observation](#) (3 units)

Grape and Wine Science

All of the following courses must be completed:

OENOLOGY 7000NW [Foundations of Wine Science](#) (3 units)

OENOLOGY 7100WT Advances in Grape and Wine Science (3 units)

OENOLOGY 7105WT Methods of Grape and Wine Analysis (3 units)

OENOLOGY 7110WT Research Concepts in Grape and Wine Science (3 units)

and

Courses to the value of 3 units from the following:

OENOLOGY 7028WT [Introductory Winemaking](#) (3 units)

VITICULT 7002WT [Viticultural Science A](#) (3 units)

International Agricultural Development

Courses to the value of 15 units from the following:

AGRIBUS 7055 [Global Food and Agricultural Markets](#) (3 units)

AGRIC 7100WT Farming Systems in Developing Countries (3 units)

AGRIC 7110WT Managing Agricultural Development in Farming Systems (3 units)

AGRIC 7115WT Research Concepts in International Agricultural Development (3 units)

GEOG 7002 [Environmental Planning and Governance](#) (6 units)

Plant Breeding Innovation

All of the following courses must be completed:

PLANT SC 7265WT [Research Concepts in Plant Breeding and Biotech](#) (3 units)

PLANT SC 7300WT Plant Genetics and Genomics (3 units)

PLANT SC 7305WT [Plant Breeding](#) (3 units)

PLANT SC 7310WT Innovations in Plant Biotechnology (3 units)

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PLANT SC 7315WT Innovations in Plant Breeding (3 units)

Research Project

To satisfy the requirements for Research Project students must complete courses to the value of 18 units.

Earth Science

All of the following courses must be completed:

GEOLOGY 7100A [Research Project in Earth Science A](#) (0 units)

GEOLOGY 7100B [Research Project in Earth Science B](#) (18 units)

Grape and Wine Science

All of the following courses must be completed:

OENOLOGY 7200AWT Research Project in Grape and Wine Science A (0 units)

OENOLOGY 7200BWT Research Project in Grape and Wine Science B (18 units)

International Agricultural Development

All of the following courses must be completed:

AGRIC 7200AWT [Research Project in International Agricultural Development A](#) (0 units)

AGRIC 7200BWT [Research Project in International Agricultural Development B](#) (18 units)

Plant Breeding Innovation

All of the following courses must be completed:

PLANT SC 7320AWT [Research Project in Plant Breeding and Biotechnology A](#) (0 units)

PLANT SC 7320BWT [Research Project in Plant Breeding and Biotechnology B](#) (18 units)

Electives

To satisfy the requirements for Electives students must complete courses to the value of 9 units.

AGRIBUS 7053 [Globalisation & Agriculture in Emerging Economies](#) (3 units)

AGRIBUS 7054 [Global Food & Agricultural Policy Analysis](#) (3 units)

AGRIBUS 7055 [Global Food and Agricultural Markets](#) (3 units)

AGRIBUS 7057 [Trends & Issues in the World Food System](#) (3 units)

AGRIC 7100WT Farming Systems in Developing Countries (3 units)

AGRIC 7105WT Agricultural Extension in Developing Countries (3 units)

BIOINF 7130 [Bioinformatics Practice](#) (3 units)

BIOINF 7150 [Genomics Applications](#) (3 units)

BIOINF 7160 [Transcriptomics Applications](#) (3 units)

BIOTECH 7005 [Bioinformatics and Systems Modelling](#) (3 units)

FOOD SC 7000WT [Brewing Technology and Beer Production](#) (3 units)

GEOLOGY 7085 [Field Geoscience Program](#) (3 units)

GEOLOGY 7090 [Geoscience Data Analysis](#) (3 units)

GEOLOGY 7095 [Electromagnets and Seismology](#) (3 units)

OENOLOGY 7019WT [Sensory Studies](#) (3 units)

OENOLOGY 7028WT [Introductory Winemaking](#) (3 units)

OENOLOGY 7046WT [Fermentation Technology](#) (3 units)

PLANT SC 7240WT [Soil and Plant Nutrition](#) (3 units)

PLANT SC 7245WT [Plant Health A](#) (3 units)

PLANT SC 7305WT [Plant Breeding](#) (3 units)

PLANT SC 7330WT [Food Production in a Future Climate](#) (3 units)

SCIENCE 7035 Emerging Issues in Science and Society (3 units)

SCIENCE 7550 [Science International Study Tour \(PG\)](#) (3 units)

SCIENCE 7555 [Sciences Internship](#) (3 units)

VITICULT 7002WT [Viticultural Science A](#) (3 units)

or

courses chosen from outside the major area of study

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