Double Degree

Advanced Mathematics (Honours) / Arts

3949 | 240 Units of Credit

Overview

This five-year degree incorporates majors in mathematics and arts and a research project in mathematics. Whereas the development of depth of understanding in pure and applied areas of mathematics and practical skills in specific disciplines are essential, the degree will also focus on instilling a culture of research and enquiry through early induction into the research ethos and access to research groups and facilities.
| **Faculty** | Faculty of Science  
| Faculty of Arts and Social Sciences |
| **Campus** | Kensington |
| **Study Level** | Undergraduate |
| **Typical duration** | 5 Years |
| **Intake Period** | Term 1, Term 3 |
| **Academic Calendar** | 3+ Calendar |
| **Minimum Units of Credit** | 240 |
| **Award(s)** | Bachelor of Science (Advanced Mathematics) (Honours) - BSc(AdvMath)(Hons)  
Bachelor of Arts - BA |
| **UAC Code** | 429320 |
| **CRICOS Code** | 088875K |
Learning Outcomes

3956 - Advanced Mathematics (Honours)

1. Capability and motivation for intellectual development; including capacity for creativity, critical evaluation, entrepreneurship and demonstrating a commitment to their own learning, motivated by personal autonomy, accountability, curiosity and an appreciation of the value of learning.

Leaders  Professionals  Scholars

2. Effective and appropriate communication in both professional (intra and interdisciplinary) and social (local and international) contexts.

Leaders  Global Citizens

3. Information literacy including the ability to make appropriate and effective use of information and information technology relevant to their discipline.

Professionals  Global Citizens

4. Research, enquiry and high level analytical thinking abilities including the ability to construct new concepts or create new understanding through the process of enquiry, critical analysis and problem solving, including constructing a research project, that demonstrates technical skills in research and design.

Professionals  Scholars

5. Independently identify and formulate solutions to complex problems with intelligence, initiative and judgement in scholarship that demonstrates advanced knowledge and critical thinking of the underlying principles and concepts in Mathematics and Statistics, and knowledge of research principles and methods.

Professionals  Scholars

6. Teamwork, collaborative and management skills including the ability to recognise opportunities and contribute positively to collaborative scientific research, and to demonstrate a capacity for self management, teamwork, leadership and decision making based on open-mindedness, objectivity and reasoned analysis in order to achieve common goals and further the learning of themselves and others.

Global Citizens  Leaders  Scholars

7. Appreciation and respect of the social, cultural and global context of science with an ability to communicate across cultures and to develop an international professional network.

Global Citizens

8. Ethical, social and professional understanding including the ability to critically
reflect upon broad ethical principles and codes of conduct in order to behave consistently with a personal respect and commitment to ethical practice and social responsibility, multicultural, cultural and personal diversity.

3409 - Arts

1. Articulate disciplinary theories and practices, and integrate them with cross-disciplinary concerns and connections.

2. Articulate a broad and coherent body of knowledge about foundational aspects of society, culture and/or the arts from local, national and international perspectives.

3. Undertake rigorous and engaged scholarly enquiry and analysis

4. Collaborate effectively with others.

5. Communicate and debate complex ideas in a range of different contexts using a variety of suitable media

6. Exhibit initiative and self-direction

7. Critically and creatively employ disciplinary bodies of knowledge and appraise disciplinary perspectives in professional practice and/or scholarship.

8. Justify a position in relation to foundational aspects of society, culture and/or the arts

9. Engage proactively with complex problems in professional practice and/or scholarship.

10. Continuously acquire knowledge and skills and reflect on existing knowledge and skills for personal and career fulfilment.

11. Act ethically, respectfully and responsibly
Graduate Capabilities:

For more information on Graduate Capabilities, please click on this link.
Stand Alone Programs

Click on the link below to find out more about each individual program.

**Program 3956**
**Advanced Mathematics (Honours)**

**Program 3409**
**Arts**
Double Degree Structure

Students must complete 240 UOC.

Bachelor of Arts (96 UOC)
1. A home major stream (60 UOC)
2. A minor stream (24 UOC)
3. Arts and Social Sciences Prescribed Electives (12 UOC)

Bachelor of Advanced Mathematics (Honours) (144 UOC)
1. An approved Advanced Mathematics (Honours) major and
2. SCIF1131;
3. 48 units of credit Honours Year; and
4. Science elective courses

Major Specialisation Requirements

3956 - Advanced Mathematics (Honours)

Students must complete at least one of the specialisations below.

MAJOR:

MATHA1 | 90 UOC
Applied Mathematics

MATHP1 | 90 UOC
Pure Mathematics

MATHU1 | 84 UOC
Advanced Statistics

Honours Specialisation Requirements

3956 - Advanced Mathematics (Honours)

Students must complete at least one of the specialisations below.

HONOURS:

MATHAH | 48 UOC
Home Majors and Minors

You are required to complete one Home Major and one Minor:

**MAJOR:**

- **ASIAB1 | 60 UOC**
  Asian Studies

- **ATSIC1 | 60 UOC**
  Indigenous Studies

- **CHINE1 | 60 UOC**
  Chinese Studies

- **CHINF1 | 60 UOC**
  Advanced Chinese Studies

- **COMDF1 | 60 UOC**
  Global Development

- **CRIMC1 | 60 UOC**
  Criminology

- **CRWTA1 | 60 UOC**
  Creative Writing
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<td>Advanced Korean Studies</td>
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LINGC1  |  60 UOC
Linguistics

MECTC1  |  60 UOC
Media, Culture and Technology

MUSCJ1  |  60 UOC
Music Studies

MUSCK1  |  60 UOC
Music Studies (Intensive)

PHILE1  |  60 UOC
Philosophy

POLSG1  |  60 UOC
Politics and International Relations

SOCAD1  |  60 UOC
Sociology and Anthropology

SPANH1  |  60 UOC
Spanish and Latin American Studies

THSTC1  |  60 UOC
Theatre and Performance Studies

MINOR:

ARTSB2  |  24 UOC
Arts and Social Sciences

ASIAB2  |  24 UOC
Asian Studies
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SOCAD2   |  24 UOC  
Sociology and Anthropology

SPANH2   |  24 UOC  
Spanish and Latin American Studies

THSTC2   |  24 UOC  
Theatre and Performance Studies

WOMSB2   |  24 UOC  
Women's and Gender Studies

Optional External Minors

3409 - Arts

External Minors

If you are enrolled in a double degree program, you cannot complete a minor stream in the same Faculty as your second program of study e.g. students enrolled in the BA/BArt Theory, cannot complete an external minor in Art History and Theory.

You will need to take extra UOC over 96 UOC to meet the requirements of an external minor that is greater than 24 UOC. External majors are not available in double degree programs.

MATHB2 is only available in 3961 Engineering (Honours)/Arts

MINOR:
Level 1 Core Course

3956 - Advanced Mathematics (Honours)

Students must take the following course.

SCIF1131 | 6 UOC
Introductory Skills for Science

Arts and Social Sciences Prescribed Electives

3409 - Arts

You must complete 12 UOC of any courses offered by UNSW Arts and Social
Sciences. Indigenous Studies courses (ATSxxxx) cannot be studied as Arts and Social Sciences Prescribed Electives.

any course offered by Faculty of Arts and Social Sciences

**Level 2 Maturity Requirements**

3956 - Advanced Mathematics (Honours)

Students may commence Level 2 courses upon successful completion of 30 UOC of Level 1 courses.

any level 2 course

**Level 3 Maturity Requirements**

3956 - Advanced Mathematics (Honours)

Students may commence Level 3 courses upon successful completion of 72 UOC.

any level 3 course

**Maximum Level 1 UOC**

3956 - Advanced Mathematics (Honours)

A maximum of 72 UOC of Level 1 courses can be taken, including any General Education or mainstream Level 1 course taken to fulfil either the General Education or the Free Elective requirement.

any level 1 course

**Minimum Level 1 Science Courses**

3956 - Advanced Mathematics (Honours)

Students must complete a minimum of 24 UOC of the following courses.

any level 1 Anatomy course

any level 1 Computer Science course

any level 1 Food Technology course
any level 1 course offered by Faculty of Science

any level 1 Neuroscience course

any level 1 Pathology course

any level 1 Pharmacology course

any level 1 Physiology course

**Minimum Level 3 Science Courses**

3956 - Advanced Mathematics (Honours)

Students must complete a minimum of 30 UOC of the following courses.

any level 3 Anatomy course

any level 3 Computer Science course

any level 3 Food Technology course

any level 3 course offered by Faculty of Science

any level 3 Neuroscience course

any level 3 Pathology course

any level 3 Pharmacology course

any level 3 Physiology course

any level 3 Medical Science course
**Major Declaration**

3956 - Advanced Mathematics (Honours)

Students must complete exactly one approved Bachelor of Science (Advanced Mathematics) (Honours) major, and this must be declared before enrolling in Level III courses. Students cannot undertake a double major in this program.

**Academic Writing & Language Enhancement**

3409 - Arts

ARTS2050 Academic Writing for the Humanities (6 UOC) and HUMS1005 Personalised English Language Enhancement (6 UOC) can be counted as UNSW Arts and Social Sciences Prescribed Electives or Free Electives.

**Double Majors**

3409 - Arts

Double majors are not available in Double Degrees.

**Maturity Requirements**

3409 - Arts

You must have completed 24 UOC before taking any Level 2 courses.

You must have completed 48 UOC, including 6 UOC at Level 1 and 6 UOC at Level 2 in your major/minor before taking any Level 3 courses.

**Specialisation Declaration**

3409 - Arts

You must specify your major and minor at the time of enrolment in Level 2 courses.

Please read the Double Degree Program rules as some specific rules apply to particular Double Degree combinations.

**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.
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