Honours Year



UNSW SYDNEY

School of Mathematics and Statistics, October 2026

Why Honours?

- Exposure to advanced coursework and research:
  - Preparation for postgraduate study,
  - Certification of excellence in Mathematics & Statistics,
  - A taste of cutting-edge research, a glimpse of the edge of knowledge.

- Develop valuable skills coveted by employers:
  - Research skills,
  - Technical writing and oral presentation skills,
  - Focus, perseverance, and creativity.

Admission requirements: programs

To enter Honours in Mathematics or Statistics, students must have either:

- Completed Stage 3 of one of the plans in the Advanced Mathematics, or the Physical Oceanography plan in the Advanced Science program; or
- Completed a Mathematics or Statistics major in the Science and/or Advanced Science program, including at least 30 units of credit in Level III Mathematics; or
- Completed a suitable Mathematics or Statistics degree at another university.

To enter Honours in Quantitative Data Science you must have either:

- Completed the Bachelor of Data Science and Decision program (any stream) but including at least 18 units of credit in Level III MATH or DATA courses; or
- Completed a bachelor degree which includes at least three level III, or higher level, courses in mathematics or statistics, and at least two level III, or higher level, courses in computer science and/or business.

Admission requirements: WAM

Average above 70% in **Level III MATH** (/ DATA for QDS) **courses** (usually 30 UOC)

and

Average above 70% in **Core Level III MATH** (/ DATA for QDS) **courses** (18 UOC).

- **Pure Mathematics:**
  - MATH3611 Higher Analysis
  - MATH3701 Higher Differential Geometry and Topology
  - MATH3711 Higher Algebra
- **Statistics** (courses from statistics major):
  - MATH3801/3901 Probability and Stochastic Processes
  - MATH 3811/3911 Statistical Inference
  - MATH 3821 Statistical Modeling and Computing
- **Applied Mathematics:**

  If MATHA plan in 2024 and after, 3 applied courses including:
  - MATH3041 Mathematical Modelling for Real World Systems
  - And / or MATH3051 Applied Real and Functional Analysis
  - Any other Core B courses in Applied (list here: https://www.unsw.edu.au/science/our-schools/maths/student-life-resources/undergraduate/programs-and-courses/plans-in-advanced-mathematics-and-advanced-science#appliedmathematics)

How to apply?

Two types of enrolling students:

- Category A: Internal UNSW applicants in three-year UG programs, all QDS, all external applicants.
- Category B: Internal UNSW students in "**embedded**" programs (honours is a compulsory part of the program). *Note that there are no Cat. B Honours in QDS.

How to enrol?

- Everyone must complete the "**Intention to Undertake Honours**" form before **6th of November 2026**

https://www.science.unsw.edu.au/study-us/undergraduate/honours-degrees/honours-how-apply ("Apply Now"), or using the link on the school webpage.

- Students in **category A** must also submit a formal application for the 4500 Science program (Honours): https://www.science.unsw.edu.au/study-us/undergraduate/honours-degrees/honours-how-apply ("**Apply Online" for 4500 in Category A section**) before **26th of January 2027 for domestic students.**

Term 1 2027

Please review Applications Steps - Category A and B for application deadlines.

- **Deadline to submit intention to Undertake Honours Form:** All applicants: 6 November 2026
- **Deadline to submit application via Apply Online portal (Category A students only):**
  - International Students: 24 September 2026
  - Domestic Students: 26 January 2027

Students applying to Psychology Honours please see below.

Honours Scholarships

Some scholarships are available for Honours.

Scholarships that require an application can be found on the UNSW scholarships website.

Some merit scholarships will be awarded to the qualifying students without the need to submit an application:

https://www.unsw.edu.au/science/our-schools/maths/student-life-resources/honours-year/honours-scholarships

The Honours Year: how does it work?

- **The Honours year...**
  - the final year of the Advanced Science/Advanced Mathematics degree
  - *or* an additional year at the end of your non-Honours Bachelor degree.

- You enrol in a research project subject in 3 consecutive terms (MATH4001) and 5 approved (by your Honours coordinator) courses over the year
  - **Coursework**: 30 Units of Credit (5 courses)
  - **Project/Thesis**: 18 Units of Credit.

You can not enrol yourself in any MATH5XXX courses! Use the honours course selection form on our website: https://forms.unsw.edu.au/form/honours-course-selection once you get an email from your course coordinator to approve your selection.

*** Note: no program leave allowed in between the 3 MATH4001 terms, but the coursework can be done part-time.

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Honours Year: courses 2027

Note: not every course is offered all terms, so you need to plan ahead

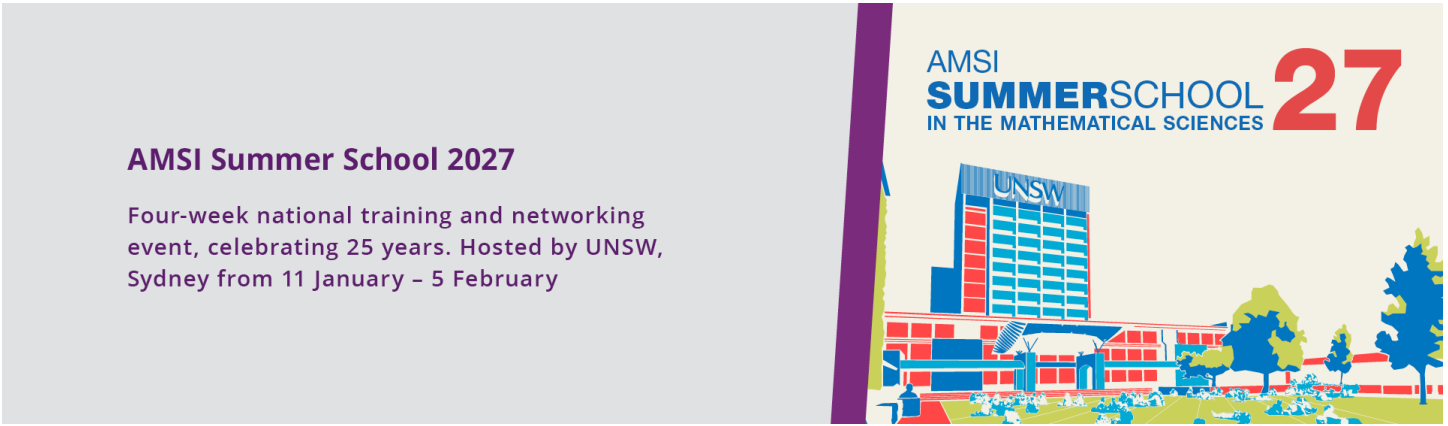
https://www.unsw.edu.au/science/our-schools/maths/student-life-resources/postgraduate-coursework/postgraduate-courses

Course	Course Name	TERM 1	TERM 2	TERM 3
DATA5002	Data Visualisation	DATA5002		DATA5002
MATH5165	Optimization	MATH5165		
MATH5285	Fluids, Oceans and Climate			MATH5285
MATH5305	Computational Maths for Science & Engineering		MATH5305	

Honours Year: AMSI Summer School 2027

AMSI summer school courses can be used in place of 6 UoC of coursework MATH5015.

Please refer to the link School of Mathematics and Statistics for guidelines and further information.



*** Program and travel grant applications close on Oct 25.

Honours Year: project (MATH4001)

- Independent study under the supervision of a member of staff over three terms
  - ✓ Thesis (60%, including a draft mi-year of 5%)
  - ✓ Participation to Maths skills workshops and practice presentation (5%)
  - ✓ Departmental presentation (10%)
  - ✓ Defence (viva voce, 25%).

- Potential honours projects and supervisors are on the Honours webpage, but **you are responsible** for finding a supervisor and project **before** you apply.

  Talk to as many people as you can, as early as you can before choosing!

- Your thesis will describe your project work and place your work in context with current research; any original project work is a bonus.

Honours Year: projects available in 2027

Statistics project areas

Pure project areas

Applied project areas

Physical Oceanography project areas

Quantitative Data Science project areas

Presentation of a few projects:
Stats / QD: Dmytro Marushkevych, Pavel Krivitsky.
Pure: Tim Buttsworth, Daniel Mansfield
Applied: Justin Tzou, Sami Al-Izzi, Frances Kuo

Next steps...

- You should consider research projects, talk to potential supervisors **as soon as possible** and receive confirmation so you can add to your application.
- Remember to submit the intention to undertake Honorus form **before the 9th of November**.



- Discuss your subjects with the relevant Honours Coordinator:





Pure: Lee Zhao (l.zhao@unsw.edu.au)
Applied : Upanshu Sharma (Upanshu.Sharma@unsw.edu.au)
Statistics: Ziyang Lyu (Ziyang.lyu@unsw.edu.au)
Quantitative Data Science: Ziyang Lyu (Ziyang.lyu@unsw.edu.au)
Physical Oceanography: Amandine Schaeffer (a.schaeffer@unsw.edu.au)



- For general admin questions: Hons.mathsstats@unsw.edu.au
- For specific admission questions: Amandine Schaeffer (a.schaeffer@unsw.edu.au)

Get familiar with “The Honours Year” section on the School website
https://www.unsw.edu.au/science/our-schools/maths/student-life-resources/honours-year

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