

Science Research and Honours Week

24-28 August (Week 5) | In-person and Online



bit.ly/ScienceRHW2026



Discover research and
honours opportunities



Get research-ready



Mathematics, Honours info session
Wednesday, 26 August 2026
<https://uqz.zoom.us/j/81919601932>

School of Mathematics and Physics
Honours / 4th Year Information Session

School of Mathematics and Physics

Honours / 4th Year Information Session

Margaret Wegener

(Physics Honours Coordinator)

Gabriele Tartaglino Mazzucchelli

(Maths/Stats Honours Coordinator)

TODAY'S PLAN

- Information about Honours / 4th Year in SMP
 - Specific to Maths/Stats
 - Program structure
 - Introduction to Masters programs

WHY STUDY HONOURS?

- Develop analytical and critical thinking skills
- Develop independent research skills
- Study an area of maths/stats/physics in a lot more depth
- Gain breadth and depth of knowledge through coursework
- Entry path to a research higher degree (eg: PhD)
- A big step on the journey from student to professional
- Develop career skills that are useful in and beyond STEM
eg: public speaking, how to deconstruct complicated ideas
- Hard work, but fun too!
- Get office space*!

WHY STUDY HONOURS AT UQ?

- Dedicated supervision by world-leading experts
- World-class research environment and facilities



WHY STUDY HONOURS AT UQ?

- Check also for potential interdisciplinary projects, e.g.:

The Clinical-oMx/QSBC lab
e.g. contact Meg Donovan, here as well for Q&A

The QSBC and Clinical-oMx lab at the UQ Frazer Institute:

“We are from the field of spatial biology, and have found there are many opportunities for maths students to do honours in this field.

Check out a paper from our last honours student (maths/genetics undergrad) which explains one of the problems he tackled over his honour's year:

https://papers.ssrn.com/sol3/papers.cfm?abstract_id=7082769

If you would like to talk more, please reach out for a chat:

meg.donovan@wesleyresearch.org.au

aaron.kilgallon@wesleyresearch.org.au ”

BEFORE STARTING HONOURS

Admission prerequisites:

- B.Science with a major in maths/stats or
- B.Arts with a major in maths or
- B Math in maths
- Approval by school if different past study program
- Overall GPA of at least 4.0
- GPA of at least 5 over #8 late-year courses relevant to the program of study
- Have secured an Honours project and supervisor

APPLYING

- Access Honours Handbook and forms:
<https://smp.uq.edu.au/study/honours-programs>
- Indicate the supervisor & project before doing the paperwork
- Submit at your earliest convenience. UQ application, online. Fill the SMP Honours form (with signatures). Deadlines:
Domestic: Sem1 — **31/01/ 2027**; Sem2 — **30/06 /2027**.
International: Sem1 — **30/11/2026**; Sem2 — **31/05/2027**.
- 4th year BAdvSc students
You are already enrolled in Hons year but still need to get permission to enroll in research project course – email your project information (instructions at above webpage)

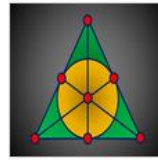
FINDING A PROJECT

- Consider UQ's research areas:
<https://www.smp.uq.edu.au/research>
- Choose a supervisor who you can work with.
- List of Available Projects:
<https://www.smp.uq.edu.au/research/projects>
is a starting point for discussion.
If it's a PhD project, it might be downsizable.
- Or... suggest your own!
- What you actually end up researching may evolve to be quite different during the course of the year.

MATHS/STATS RESEARCH TOPICS



ALGEBRA AND NUMBER
THEORY



COMBINATORICS



FINANCIAL MATHEMATICS



GEOMETRIC AND NONLINEAR
ANALYSIS



COMPUTATIONAL GEOMETRY
AND TOPOLOGY



MATHEMATICAL BIOLOGY



MATHEMATICAL EDUCATION



MATHEMATICAL MATERIAL
SCIENCE



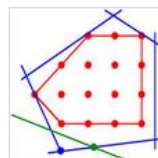
MATHEMATICAL PHYSICS



SCIENTIFIC COMPUTING AND
NUMERICAL MODELLING



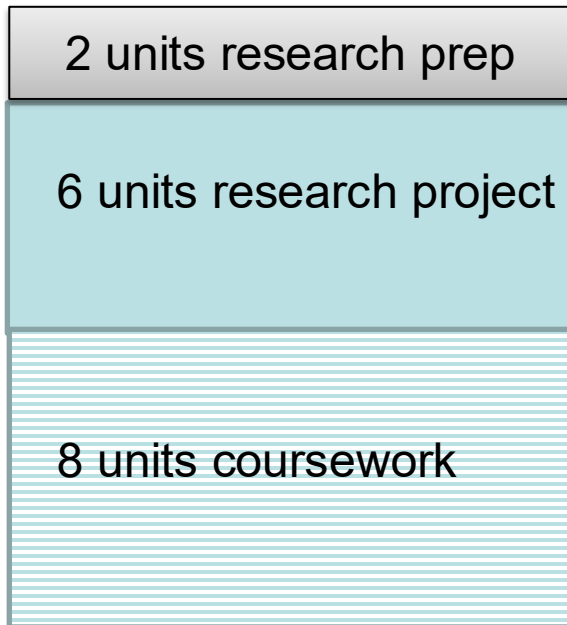
PROBABILITY AND STATISTICS



OPERATIONS RESEARCH

PROGRAM STRUCTURE 2027

Maths/Stats



Choice of courses:

BSc: <https://programs-courses.uq.edu.au/requirements/plan/MATHEX2031/2027>

BMath: <https://programs-courses.uq.edu.au/requirements/program/2421/2027>

BAdvSc: <https://programs-courses.uq.edu.au/requirements/program/2516/2027>

MATHS

- Coursework can include up to 4 units other approved courses (from level 3 courses and/or related disciplines)

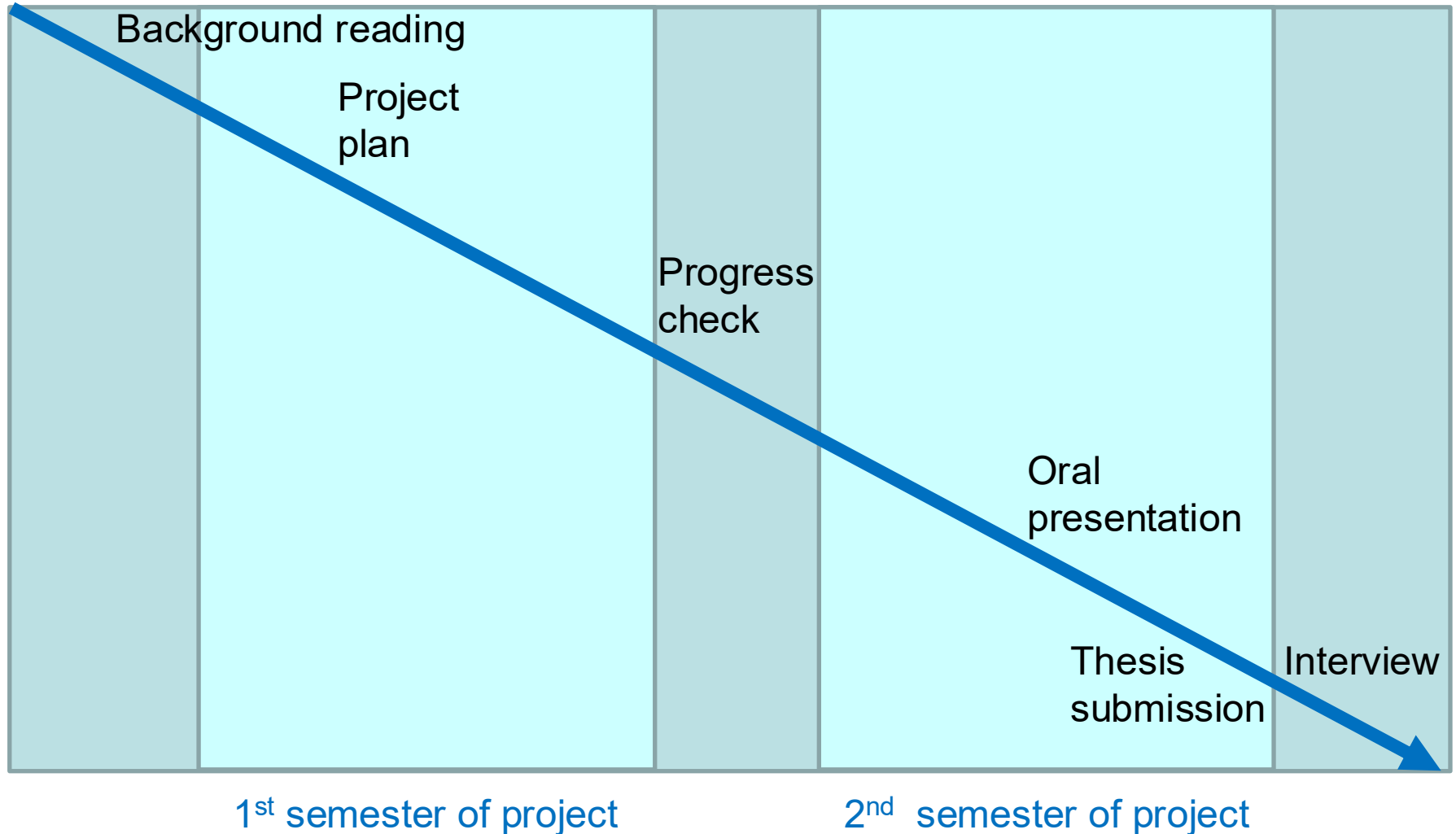
STATS

- 2 specified courses + 2 other approved courses (from level 3 courses and/or related disciplines)

MATHS/STATS – OTHER

- AMSI summer school courses
<https://ss.amsi.org.au/>
- AMSI Summer Research Scholarships:
<https://srs.amsi.org.au/>
- AMSI Online courses (regular semester): Honours, Masters
- Contact Michael Jennings for AMSI,
msj@maths.uq.edu.au
- MATH6006/6007 special topic courses
- SMOR talks, Honours talks, other seminars.
- Summer vacation scholarships (6 weeks)
- A more informal meet-and-greet with maths staff will be scheduled at the start of each semester – stay tuned!

PROJECT TIMELINE



PROJECT TIMELINE

- Your supervisor will give you background reading
possibly before start of semester
- Project Plan - 1 page outline of research project
first two weeks
- Mid-year review (15 min) second week of 2nd semester
- Progress Report, potentially including Literature Review
second week of 2nd semester
- Final talk (20 min) end of 2nd semester
- Thesis first week of exams
- Interview exam period

Honours class is based on:

- BSc(Hons)/BMath(Hons): GPA over the prescribed Honours program courses
- BAdvSc(Hons) program 2516: GPA over all prescribed Honours courses (16 units; first-attempt grades)

Check out the sample first-class honours theses!

HONOURS OVER 2+ SEMESTERS

- Can do Honours spread over more than two semesters
- Research projects must still be done over two consecutive semesters, or in a single semester
- Math and Statistics also allows for honours project over one semester. Generically not advised, but can fit needs
- The standard full-time load is 8 units/semester; enrolment in 6 or more units is classified as full time
- Cannot do more than 16 units,
e.g., 18 units corresponding to $\frac{3}{4}$ load over 3 semesters

- Paid tutors are needed for many different courses
 - See <https://smp.uq.edu.au/casual-academic-staff-opportunities>
- Some UQ scholarships available for Honours
 - <https://scholarships.uq.edu.au/scholarships>
SMP students have been successful for various scholarships, e.g. Harriett Marks Bursary. Check updated list for open scholarships in 2027

PAST HONOURS STUDENT

Telling it like it was:

“I definitely recommend honours, even if you aren’t interested in a career in research. It’s challenging, rewarding and the perfect way to finish my undergrad studies and enter the workforce with confidence.

It shows to future employers that you take what you do seriously and do it to its fullest.”



- Anna (Hons Class I & University Medal, 2017)

Q & A