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
Some past honours students

Anthony Morris
Pure Mathematics 2012
Now a software engineer at Google

Anna McGann
Applied Mathematics 2015
Now doing PhD research in biomathematics at UNSW

Tony Vo
Statistics 2014
Now a Business Intelligence Officer at Suncorp Group

See here for more past Honours students: https://www.maths.unsw.edu.au/currentstudents/past-honours-students
Admission requirements

• Average above 70% in **Level III Mathematics courses**
• Average above 70% in **Core Level III Mathematics courses**
  o **Pure Mathematics:**
    o Higher Analysis, Higher Differential Geometry and Topology, Higher Algebra
  o **Applied Mathematics / Physical Oceanography:**
    o Three Level III courses depending on your chosen field (consult Coordinator)
  o **Statistics:**
    o Core courses of the Statistics major
  o **Quantitative Data Science:**
    o Three Level III courses in Mathematics / Statistics *plus*
    o Two Level III Computer Science/Business electives of Data Science and Decisions
The Honours Year

- **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 **MATH4001** (Honours Thesis) plus 5 **approved courses**
  - **Coursework**: 30 Units of Credit (5 courses)
  - **Project/Thesis**: 18 Units of Credit

- There is also a weekly honours seminar
Honours coursework

• Enrol in a full year of courses at the start of your Honours year
• You must seek approval from your Honours coordinator prior to enrolment
• Up to one course can be external:
  • Other schools at UNSW
  • Other mathematics schools
  • AMSI summer school, online courses on Advanced Collaborative Environment (ACE)
• Available courses will be posted on the Honours website

<table>
<thead>
<tr>
<th>Course code</th>
<th>Description</th>
<th>Term 1</th>
<th>Term 2</th>
<th>Term 3</th>
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</thead>
<tbody>
<tr>
<td>MATH5165</td>
<td>Optimization</td>
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<td>MATH5165</td>
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<tr>
<td>MATH5171</td>
<td>Linear and Discrete Optimization</td>
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<td>Modelling</td>
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<td>MATH5171</td>
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<tr>
<td>MATH5285</td>
<td>Fluids, Oceans and Climate</td>
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<td>MATH5285</td>
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Honours Project

• Independent study under the supervision of a member of staff
  • 40-60 page thesis
  • 25-50 minute oral presentation

• Potential honours projects and supervisors are on the Honours webpage, but you are responsible for finding a supervisor and project

• Talk to as many people as you can, as early as you can before choosing. This should be organized before you start your Honours year!

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

Step 1: Get clicking

Get familiar with The Honours Year section on the School website

Next steps...

Step 2: Start talking

Consult with the relevant Honours Coordinator to discuss your subjects

- **Pure**: Pinhas Grossman (p.grossman@unsw.edu.au)
- **Applied**: Chris Angstmann (c.angstmann@unsw.edu.au)
- **Statistics**: Libo Li (libo.li@unsw.edu.au)

You should also talk to potential supervisors as soon as possible!
Next steps...

Step 3: Submit online

Complete and submit the online *Intention to undertake honours form* to the Science Student Office (link on Honours website).

If you are in the BSc program or have graduated from another university, you *also* need to apply for the one-year degree Bachelor of Science (Honours) using UNSW’s *Apply Online* system (link on Honours website).