

## Course progression map for 2027 commencing students

This progression map provides advice on the suitable sequencing of units and guidance on how to plan unit enrolment for each semester of study. It does not substitute for the list of required units as described in the course 'Requirements' section of the Handbook.

### S4010 Graduate Certificate of Mathematics

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| Year 1<br>Semester 1 |                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Year 1<br>Semester 2 | You must complete 24 points from any field in mathematics listed on the right. | <b>Pure mathematics</b> <ul style="list-style-type: none"> <li>MTH4020 Complex analysis and integral transforms</li> <li>MTH4060 Advanced ordinary differential equations</li> <li>MTH4110 Differential geometry</li> <li>MTH4130 Topology: The mathematics of shape</li> <li>MTH4150 Algebra 2: Rings and fields</li> <li>MTH4160 Metric spaces, Banach spaces, Hilbert spaces</li> <li>MTH4170 Network mathematics</li> </ul> <b>Applied and computational mathematics</b> <ul style="list-style-type: none"> <li>MTH4015 Partial differential equations</li> <li>MTH4320 Computational linear algebra</li> <li>MTH4330 Optimisation and operations research</li> <li>MTH4340 Numerical methods for partial differential equations</li> <li>MTH4360 Fluid dynamics</li> </ul> <b>Statistics</b> <ul style="list-style-type: none"> <li>MTH4230 Time series and random processes in linear systems</li> <li>MTH4241 Random processes in the sciences and engineering</li> <li>MTH4251 Financial mathematics Archived</li> <li>MTH4260 Statistics of stochastic processes</li> </ul> |