

School of Mathematical Sciences

Structured Doctoral Pathway 2021-22

The Programme

Each student is required to take the Online Research Integrity Training Module in their first year. In order to be considered on a structured programme students must take a minimum of 20 ECTS in total during their PhD studies. No student will be allowed to take more than 20 ECTS in a single year and no student is to take more than 50 ECTS.

Transferable skills

- Online Research Integrity Training Module (non-accredited)
- **GS602: Postgraduate Tutoring Principles and Practice** (5 ECTS)

Students are encouraged to take additional training opportunities offered by the School and GSO as appropriate throughout their PhD.

Elective Modules

- **MS537: Probability and Finance I** (7.5 ECTS)
- **MS508: Probability and Finance II** (7.5 ECTS)
- **MS525: Fixed Income Securities** (7.5 ECTS)
- **MS509: Partial Differential Equations** (7.5 ECTS)
- **MS526: Stochastic Finance (Advanced)** (7.5 ECTS)
- **MS527: Financial & Actuarial Data Analysis** (7.5 ECTS)
- **MS547: Time Series (Advanced)** (7.5 ECTS)
- **MS555: Simulation for Finance** (7.5 ECTS)
- **MS556: Deep Learning** (7.5 ECTS)
- **MS536: Differential Geometry and General Relativity** (7.5 ECTS)
- **MS539: Advanced GR I: Gravitational Waves** (7.5 ECTS)
- **MS540: Advanced GR II: Black Holes** (5 ECTS)

In addition, students may take any other GTE provided through the Faculty GTE listing as part of this structured PhD.