



Mathematics Advising Guide

Detailed information about ISA programs at these host institutions is available on ISA's website by following the links below. If you would like to receive specific course syllabi, or have further questions about any of these recommendations, please feel free to contact ISA's Academic Affairs Department at academicaffairs@studiesabroad.com.

Courses are in English unless otherwise noted.

AFRICA

University of Cape Town (Cape Town, South Africa)

With a focus on both pure and applied mathematics, math courses at the [University of Cape Town](#) are designed to train students to international standards. The breadth of course work encompasses computational mechanics, biological modelling, financial modelling, gravitation theory and cosmology (among other fields), providing students with a range of courses that could satisfy their degree requirements in math.

Math Fields:

- [Calculus](#)
- [Mathematics](#)
- [Statistics](#)

Other Regional Options:

- [University of the Western Cape](#) – Cape Town, South Africa
 - [Nelson Mandela University](#) – Port Elizabeth, South Africa
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ASIA

Hanyang University (Seoul, South Korea)

Offering a summer program with a wide range of courses, [Hanyang University](#) is a great option for students who wish to study math during a shorter program in the global city of Seoul. Available courses include Calculus I and II and Numerical Analysis. This summer program was specifically designed for visiting international students and all courses are offered in English.

Course information:

- [Computer Science](#)

Korea University (Seoul, South Korea)

With research interests in probability theory, queuing theory, differential geometry, optimization theory, game theory, complex analysis, fluid dynamics, applied mathematics, algebra, number theory, and analysis (among others), faculty members in [Korea University](#)'s math department offer a broad range of courses in English.

Math Fields:

- [Algebra](#)
- [Calculus](#)
- [Mathematics](#)
- [Statistics](#)

Mahidol University (Bangkok, Thailand)

With courses in applied mathematics, [Mahidol University](#) offers students practical tools for dealing with abstract concepts. Mahidol University is a good choice for students who wish to study math as a useful tool for scientific inquiry or as a feature of commerce and finance.

Math Fields:

- [Algebra](#)
- [Calculus](#)
- [Mathematics](#)
- [Statistics](#)

EUROPE

Queen Mary, University of London (London, England)

With one of the largest mathematics departments in the UK, [Queen Mary University of London](#) offers courses that cover a broad range of topics. The strengths of the department include pure mathematics, probability and statistics, dynamical systems and computing. Queen Mary University of London is renowned for the strength of its research and is part of the prestigious Russell Group.

Math Fields:

- [Algebra](#)
- [Calculus](#)
- [Geometry](#)
- [Mathematics](#)
- [Statistics](#)

National University of Ireland, Galway (Galway, Ireland)

The School of Mathematics, Statistics and Applied Mathematics at the [National University of Ireland – Galway](#) allows undergraduate students to pursue coursework in Mathematical Science, Applied Mathematics, and Financial Mathematics. With awards in each of the President's Excellence Award areas (teaching, research, and support service), the School also hosts weekly seminars directed towards a general mathematical audience that all students are welcome to attend.

Math Fields:

- [Algebra](#)
- [Calculus](#)
- [Geometry](#)
- [Mathematics](#)
- [Statistics](#)

University of Glasgow (Glasgow, Scotland)

The School of Mathematics and Statistics at the [University of Glasgow](#) combines world renowned research and excellent standards of teaching. The university has courses in both applied and pure mathematics, with a range of courses in financial mathematics as well.

Math Fields:

- [Algebra](#)
- [Geometry](#)
- [Mathematics](#)

Other Regional Options:

- [Kings College London](#) – London, England
- [University of Reading](#) – Reading, England
- [The American College of Greece](#) – Athens, Greece
- [Maynooth University](#) – Dublin, Ireland
- [University College Dublin](#) – Dublin, Ireland
- [University of Limerick](#) – Limerick, Ireland
- [American University of Rome](#) – Rome, Italy
- [Vrije Universiteit Amsterdam](#) – Amsterdam, The Netherlands
- [Universidad Carlos III de Madrid](#) – Madrid, Spain
- [Universitat Politècnica de València](#) – Valencia, Spain

LATIN AMERICA

Universidad del Norte (Barranquilla, Colombia)

The Science, Technology, Engineering and Mathematics (STEM) Program has been designed by [the Universidad del Norte](#) to provide a unique opportunity for study abroad students to experience academics at a prestigious Colombian institution. While a

good number of STEM courses are in English, most mathematics courses are in Spanish. Students may also complete a research project (in either English or Spanish) with a faculty member from the university.

Math Fields:

- [Algebra](#)
- [Calculus](#)
- [Mathematics](#)
- [Statistics](#)

Other Regional Options:

- [Pontificia Universidad Católica de Valparaíso](#) – Valparaíso, Chile (courses in Spanish)
- [Pontificia Universidad Católica de Perú](#) – Lima, Peru (courses in Spanish)

PACIFIC

University of Queensland (Brisbane, Australia)

Students studying mathematics or statistics at the [University of Queensland](#) have the opportunity to take courses with world-renowned researchers in the field. Courses are offered in the areas of mathematical analysis, algebra and discrete mathematics, mathematical physics, applied mathematics, scientific computation, mathematical ecology, financial mathematics, and statistics. [Cricos Code: 00025B]

Math Fields:

- [Algebra](#)
- [Calculus](#)
- [Mathematics](#)
- [Statistics](#)

University of Melbourne (Melbourne, Australia)

As one of the Australia's leading mathematics departments, the School of Mathematics and Statistics at the [University of Melbourne](#) offers a range of subjects in pure and applied mathematics and statistics. Offering a broad range of courses, faculty members focus their research on algebra, continuum modeling, discrete mathematics, geometry and topology, operations research, mathematical biology, mathematical physics, stochastic processes and statistics. [Cricos Code: 00116K]

Math Fields:

- [Calculus](#)
- [Mathematics](#)
- [Statistics](#)

University of New South Wales (Sydney, Australia)

A leading center for mathematical and statistical research, the [University of New South Wales](#) offers courses that encompass broad areas of applied mathematics, pure mathematics, and statistics. The department's connection to industry informs the student experience, as students can be exposed to the practical applications of the topics covered in their courses. [Cricos Code: 00098G]

Math Fields:

- [Calculus](#)
- [Mathematics](#)
- [Statistics](#)

University of Sydney (Sydney, Australia)

The School of Mathematics and Statistics at the [University of Sydney](#) offers courses with an emphasis on the skills of problem solving and critical thinking in order to better enhance students' career-readiness. Math courses are available in the following fields: data science, financial mathematics and statistics, mathematics, mathematical sciences, quantitative life sciences, and statistics. [Cricos code: 00026A]

Math Fields:

- [Algebra](#)
- [Calculus](#)
- [Geometry](#)
- [Mathematics](#)
- [Statistics](#)

University of Auckland (Auckland, New Zealand)

One of the largest departments with the [University of Auckland](#), the Department of Mathematics enjoys a strong international reputation and offers courses in applied and pure mathematics. The Department of Statistics is the largest such department in Australia and New Zealand and is notable for being the site where the R Project was first developed.

Math Fields:

- [Mathematics](#)
- [Statistics](#)

University of Canterbury (Christchurch, New Zealand)

The Mathematics and Statistics department at the [University of Canterbury](#) offers courses that prepare students to confront mathematical issues in a variety of professional fields – from business management to engineering. The university was the first in New Zealand to earn five stars from the QS World University rankings and has maintained this status since 2011.

Math Fields:

- [Algebra](#)
- [Mathematics](#)
- [Statistics](#)

Other Regional Options:

- [Queensland University of Technology](#) – Brisbane, Australia
- [La Trobe University](#) – Melbourne, Australia
- [University of Newcastle](#) – Newcastle, Australia
- [Macquarie University](#) – Sydney, Australia
- [University of Technology Sydney](#) – Sydney, Australia
- [James Cook University](#) – Townsville, Australia
- [University of the South Pacific](#) – Suva, Fiji
- [AUT University](#) – Auckland, New Zealand
- [University of Otago](#) – Dunedin, New Zealand
- [Victoria University of Wellington](#) – Wellington, New Zealand