

MATHEMATICS JOINT HONOURS COMPONENT (B.A.) (36 CREDITS)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

To remain in the Joint Honours program and receive the Joint Honours degree, a student must maintain the standards set by each discipline, as well as by the Faculty. In the Mathematics courses of the program a GPA of 3.00 and a CGPA of 3.00 must be maintained. Students who have difficulty in maintaining the required level should change to another program before entering their final year.

Degree Requirements — B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements — B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Note: For information about Fall 2025 and Winter 2026 course offerings, please check back on May 8, 2025. Until then, the "Terms offered" field will appear blank for most courses while the class schedule is being finalized.

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Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 36 credits required for the program.

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
MATH 222	Calculus 3.	3

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
MATH 235	Algebra 1.	3
MATH 251	Honours Algebra 2.	3
MATH 255	Honours Analysis 2.	3

Complementary Courses (27 credits)

3 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 242	Analysis 1.	3
MATH 254	Honours Analysis 1. ¹	3

¹

It is strongly recommended that students take MATH 254 Honours Analysis 1..

3 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 248	Honours Vector Calculus.	3
MATH 358	Honours Advanced Calculus. ¹	3

¹

It is strongly recommended that students take MATH 358 Honours Advanced Calculus..

15 credits selected from the list below. The remaining credits are to be chosen from the full list of available Honours courses in Mathematics and Statistics.

Expand allContract all

Course	Title	Credits
MATH 325	Honours Ordinary Differential Equations.	3
MATH 356	Honours Probability.	3
MATH 357	Honours Statistics.	3
MATH 454	Honours Analysis 3. ¹	3
MATH 455	Honours Analysis 4. ²	3

MATH 456	Honours Algebra 3. ³	3
MATH 457	Honours Algebra 4. ⁴	3
MATH 458	Honours Differential Geometry. ⁵	3
MATH 466	Honours Complex Analysis.	3

¹
² Not open to students who have taken MATH 354 .
³ Not open to students who have taken MATH 355 .
⁴ Not open to students who have taken MATH 370 .
⁵ Not open to students who have taken MATH 371 .
Not open to students who have taken MATH 380 .