

MATH 358. HONOURS ADVANCED CALCULUS.

Credits: 3

Offered by: Mathematics and Statistics (Faculty of Science)

Terms offered: Winter 2026

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Description

Point-set topology in Euclidean space; continuity and differentiability of functions in several variables. Implicit and inverse function theorems. Vector fields, divergent and curl operations. Rigorous treatment of multiple integrals: volume and surface area; and Fubini's theorem. Line and surface integrals, conservative vector fields. Green's theorem, Stokes' theorem and the divergence theorem.

- Prerequisites: MATH 222, MATH 247 or MATH 251, MATH 255 or permission of the Department.
- Restrictions: Intended for students in Honours Mathematics programs, Not open to students who have taken or are taking MATH 314 or MATH 248

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