

# MATH0039 Differential and Integral Calculus

|                                 |                                    |
|---------------------------------|------------------------------------|
| <i>Year:</i>                    | 2024{2025                          |
| <i>Code:</i>                    | MATH0039                           |
| <i>Level:</i>                   | 4 (UG)                             |
| <i>Normal student group(s):</i> | UG: Students outside Mathematics   |
| <i>Value:</i>                   | 15 credits (= 7.5 ECTS credits)    |
| <i>Term:</i>                    | 1                                  |
| <i>Assessment:</i>              | 85% examination, 15% coursework    |
| <i>Normal Pre-requisites:</i>   | A-level Maths or strong GCSE       |
| <i>Lecturer:</i>                | Mr Teymour Gray & Mr Elvar Atlason |

## *Course Description and Objectives*

This course provides a fairly rapid introduction to calculus. Calculus underlies almost all areas

(b) As an area.

(c) As a summation. Standard forms. Methods of changing integrals into standard form.

6. **Approximate or numerical integration.** Trapezoidal approximation.

7. **Simple differential equations and applications.**

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