

# MATH 437. MATHEMATICAL METHODS IN BIOLOGY.

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Credits: 3

Offered by: Mathematics and Statistics (Faculty of Science)

Terms offered: Winter 2026

[View offerings for Winter 2026 in Visual Schedule Builder.](#)

## Description

The formulation and treatment of realistic mathematical models describing biological phenomena through qualitative and quantitative mathematical techniques (e.g. local and global stability theory, bifurcation analysis and phase plane analysis) and numerical simulation. Concrete and detailed examples will be drawn from molecular and cellular biology and mammalian physiology.

- Corequisite: MATH 326 or MATH 376
- This course is offered in the winter semester.
- Prerequisite(s): MATH 315 or MATH 325, and MATH 326 or MATH 376, and COMP 202 or COMP 204 or COMP 208 or equivalent.

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