MATH 458. HONOURS DIFFERENTIAL GEOMETRY.

Credits: 3

Offered by: Mathematics and Statistics (Faculty of Science)

Terms offered: Winter 2026

View offerings for Winter 2026 in Visual Schedule Builder.

Description

In addition to the topics of MATH 320, topics in the global theory of plane and space curves, and in the global theory of surfaces are presented. These include: total curvature and the Fary-Milnor theorem on knotted curves, abstract surfaces as 2-d manifolds, the Euler characteristic, the Gauss-Bonnet theorem for surfaces.

- Prerequisites: MATH 251 or MATH 247, and MATH 248 or MATH 314 or MATH 358
- Restriction: Not open to students who have taken MATH 380.

Most students use Visual Schedule Builder (VSB) to organize their schedules. VSB helps you plan class schedules, travel time, and more.

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