

MATH 591. MODEL THEORY.

Credits: 4

Offered by: Mathematics and Statistics (Faculty of Science)

Terms offered: Winter 2026

View offerings for Winter 2026 in Visual Schedule Builder.

Description

Structures, theories, and definable sets; elementary equivalence and elementary embeddings; compactness and Löwenheim–Skolem theorems; types, the omitting types theorem, and saturation; categoricity and the Ryll-Nardzewski theorem; quantifier elimination and applications to algebra; ultraproducts; homogeneous structures and Fraïssé theory; infinitary logics. Optional topics: indiscernibles and Morley's theorem; stability; o-minimality; elimination of imaginaries.

- Winter
- Prerequisites: MATH 318 or MATH 488 or MATH 456 or permission of the instructor.

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