

**Introduction to Algebraic Geometry, 5.0 credits**

Introduction to Algebraic Geometry, 5.0 hp

Third-cycle education course

MAI0128

Dept of Mathematics

Valid from: First half-year 2023

**Approved by**  
Head of Department

**Approved**

**Registration number**

## **Entry requirements**

Basic knowledge of geometry and algebra.

## **Contents**

Curves, Affine varieties: Nullstellensatz and normalization, Coordinate Rings.  
Projective Varieties. Tangent Bundles. Coverings of Curves.

## **Educational methods**

Lectures and homework.

## **Examination**

Hand-in exercises.

## **Grading**

One-grade scale

## **Course literature**

M. Reid, "Undergraduate Algebraic Geometry" Cambridge Univ. Press.