# Algebraic curves

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Langue	anglais
Semestre	Printemps
Mode d'évaluation	Examen oral
Session	Juillet
Format de l'enseignment	

Туре

**ECTS** 

Cursus

Pas de cursus

## Objectifs

This course gives and introduction to algebraic geometry and develops the theory of complex algebraic curves.

## Description

- 1. Projective space(s). Plane algebraic curves. Bezouts theorem.
- 2. Rational curves.
- 3. Algebraic curves as complex manifolds. Branched coverings. The Riemann-Hurwitz formula.
- 4. Line bundles and divisors on curves.
- 5. The RiemannRoch theorem for curves.
- 6. Metrics of constant negative curvature and uniformization theorem.
- 7. Moduli of elliptic curves.

### **Divers**

### Commentaires