

# Genetic engineering



ECTS  
6 crédits



Hourly volume  
74h

## Introducing

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### Description

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### Objectives

At the end of this module, the student will have understood and be able to explain (main concepts):

- Basics of bacterial genetics.
- Basic tools used in genetic engineering (restriction enzymes, plasmids)
- Basic methods like cloning, PCR, sequencing, direct mutagenesis, microarrays, libraries construction, gene expression analysis

The student will be able to:

- to describe and summarize basic methods
- to insert these methods in a larger scientific and experimental context
- analyse and criticize a scientific paper in this domain
- perform a simple experiment of molecular biology
- use an *in silico* cloning software

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## Necessary prerequisites

Microbiology  
Basic molecular biology

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## Évaluation

L'évaluation des acquis d'apprentissage est réalisée en continu tout le long du semestre. En fonction des enseignements, elle peut prendre différentes formes : examen écrit, oral, compte-rendu, rapport écrit, évaluation par les pairs...

## Practical info

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### Location(s)

 Toulouse