

- Faculté des sciences
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## Modelling (3BL2189)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
<b>Master en biologie</b>	<b>Cours: 3 ph</b>	<b>contrôle continu: 1</b>	3

ph=période hebdomadaire, pg=période globale, j=jour, dj=demi-jour, h=heure, min=minute

### Période d'enseignement:

- Semestre Automne

### Equipe enseignante:

Prof. Jacob Koella

### Objectifs:

(i) To obtain basic experience in modelling of biological systems (ii) To understand differential equation models, parameter estimation and sensitivity (iii) To learn how to create, simulate and analyse models using the software R

### Contenu:

(1) Lectures and practical exercises on models of various biological systems, with an emphasis on ecology and epidemiology. (2) Each student models a chosen system and writes a report in the format of a scientific paper on the results.

### Forme de l'évaluation:

Exercises and the individual report will be graded

### Documentation:

The lecture notes and solved exercises will be available on Claroline

### Pré-requis:

Basic undergraduate biology and mathematics