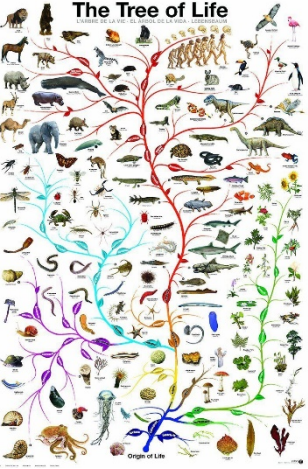


03-125 EVOLUTION

- Elective for **All Majors**
- **9 Units (3 hours lecture/week)**
- **Pre-requisites: none**



Learning Goals

The evolutionary theory is the unifying principle of biology. Through different examples and case studies such as the **corona virus, bacteria, maize, flat fish and humans** we will come to :

- (1) Examine **the history, development and applications of evolutionary theory**
- (2) Introduce and apply **the concepts of phylogenetic**
- (3) Understand the basis of **molecular biology, heredity and genetic mutations**
- (4) Understand how **genetic variation and natural selection** lead to the **diversity and origins of the groups of life**
- (5) Introduce **population genetic theory**

Instructor:
Prof. Mohamed Bouaouina

Student evaluation: (tentative) 3 exams & one final, 3 problem sets, weekly quizzes, in-class discussion and group presentation.

