Evolution et diversité des eucaryotes : métazoaires

Lecturers
Jean-François FLOT (Coordinator) and Jean-Christophe DE BISEAU D'HAUTEVILLE

Course mnemonic
BIOL-F202

ECTS credits
5 credits

Language(s) of instruction
French

Course period
Second term

Campuses
Solbosch and Plaine

Course content

Studiy of the diversity and evolution of animals, including their physiology.

Objectives (and/or specific learning outcomes)

At the end of the course, students should be able to explain, orally or in writing, the evolution of animals, their morphological characteristics and their major functions.

Pre-requisits and co-requisits

Pre-requisites courses

BIOL-F103 | Bases de la biologie des organismes | 10 crédits, BIOL-F104 | Bases moléculaires du vivant | 10 crédits and BIOL-F105 | Biologie générale | 10 crédits

Co-requisites courses

BIOL-F209 | Travaux pratiques de botanique et zoologie | 5 crédits

Courses having this one as pre-requisit

BIOL-F304 | Evolution et diversité des arthropodes et des vertébrés | 5 crédits, BIOL-F309 | Ecologie | 5 crédits, BIOL-F318 | Histolophysiologie et développement animal | 5 crédits and BIOL-F320 | Travaux pratiques d'histophysiologie et développement animal | 5 crédits

Courses having this one as co-requisit

BIOL-F209 | Travaux pratiques de botanique et zoologie | 5 crédits and BIOL-F314 | Projet de recherche et communication scientifique | 5 crédits

Teaching method and learning activities

Lectures

Contribution to the teaching profile

Master the fundamental concepts in biology as well as the necessary bases in chemistry, physics and mathematics.

Collect and verify information in a critical manner.

Analyze, synthesize and link knowledge.

Use precise, domain-specific language.

Understand and think critically about scientific presentations, oral and written, including in English.

Recognize inconsistent explanations and overgeneralizations.

Recognize the scientific character of an argument/theory.

Learn to work and communicate in a team, respecting the objectives and deadlines imposed.

Use clear and rigorous language adapted to the target audience. Understand the societal issues related to their discipline.

References, bibliography and recommended reading

Brusca & al., 2016 (3rd edition). Invertebrates. Sinauer Associates. 936 pp. ISBN 9781605353753

De Iuliis & Pulerà, 2011 (2nd edition). The Dissection of Vertebrates. 332 pp. ISBN 9780123750600

Hickman et al., 2013 (16th edition). Integrated Principles of Zoology. McGraw-Hill. 912 pp. ISBN 9780073524214

Kardong, 2014 (7th edition). Vertebrates: Comparative Anatomy, Function, Evolution. McGraw-Hill. 794 pp. ISBN 9780078023026

Raven et al. 2017 (11th edition). Biology. McGraw-Hill Education. 1281 pp. ISBN 9781259188138

Poinsot et al. 2018. Diversité animale. Deboeck Supérieur. 448pp. ISBN 9782807315396

Other information

Place(s) of teaching

Plaine and Solbosch

Contact(s)

Lecturer in 2022-23: Jean-François Flot, jean-francois.flot@ulb.be

Assistants: Marine Pyl, Marine.Pyl@ulb.be & Nicolas Fontaine, nicolas.fontaine@ulb.be

Evaluation method(s)

Oral presentation and written examination

Determination of the mark (including the weighting of partial marks)

The oral presentation P will count for 20% of the final grade. The written exam E will count for 80% of the final grade

Main language(s) of evaluation

French

Programmes

Programmes proposing this course at the faculty of Sciences

BA-BIOL | Bachelor in Biology | option Bruxelles/unit 2 and BA-IRBI | Bachelor in Bioengineering | unit 2

Programmes proposing this course at the Brussels School of Engineering

BA-IRBI | Bachelor in Bioengineering | unit 2