

Mycology (C000322)

Course size *(nominal values; actual values may depend on programme)*

Credits 5.0 **Study time 144 h**

Course offerings and teaching methods in academic year 2023-2024

A (semester 1)	Dutch	Gent	lecture
			practical

Lecturers in academic year 2023-2024

Verbeken, Annemieke	WE11	lecturer-in-charge
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Offered in the following programmes in 2023-2024

	crdts	offering
Bachelor of Science in Biology	5	A
Preparatory Course Master of Science in Biology	5	A

Teaching languages

Dutch

Keywords

Fungi, pseudofungi, slime moulds, moulds, mushrooms, Protozoa p.p., Chromista p.p., Eumycota, systematics, morphology, phylogeny, ecology, lichens, mycorrhiza

Position of the course

This course wants to give an overview of the huge biodiversity of fungi s.l. and to provide insights in the characters which lead to the current classification and in the evolutive processes which resulted in this biodiversity and variability. This course will be given to all ba2 students (later going to ecology, biodiversity or functional biology) and besides the systematic line that will be followed, there will be focused consequently on the ecological role of certain groups of fungi, on their life-strategy and on the relations plants-fungi and animal-fungi.

Contents

- Introduction
- History of mycology
- What are fungi (incl. Pseudofungi and slime moulds) and where do they belong systematically?
- Fungi s.l.: general characters
- Slime moulds (Protozoa p.p.)
- Fungi in the kingdom Straminipila
- Fungi in the kingdom Eumycota
- To sex or not to sex
- Mycorrhiza

Initial competences

Biodiversity in bachelor 1

Final competences

- 1 Knowledge of the mycological terminology and being able to interpret and use this terminology.
- 2 Insights in the building pattern, life cycle, reproduction and life-strategy of the major groups of fungi.
- 3 Insights in their phylogeny and evolution.
- 4 Field-knowledge of some of the most important genera of especially Agaricales.
- 5 Introductory fieldwork.
- 6 Identification tools mushrooms.

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Group work, Excursion, Lecture, Practical

Extra information on the teaching methods

Practical courses are scheduled every Friday afternoon. Depending on the weather condition and the availability of fresh mushrooms, excursions will be planned during some of these afternoons. A small group task is part of the last economica practicum and includes a short oral and written rapport.

Learning materials and price

Syllabus 350 pages, ppt presentations, fresh material, microscopical slides

Cost: about 30 €

References

Alexopoulos, C.J.; Mims, C.W. & Blackwell, M. (1996) - Introductory mycology. 4th ed. John Wiley & Sons, N.Y. Esser, K; & Lemke, P.A. (1994-2003). The Mycota I-X (eds.). Springer-Verlag.
Crous, P.W.; Verkley G.J.M.; Groenewald J.Z. & Houbraken J. (2019) - Fungal Biodiversity. Westerdijk Laboratory Manual Series 1.

Course content-related study coaching

Possibility for discussion of questioning during or immediately after the lectures, via email or personal contact with teacher or assistant
Practical exercises will be intensively guided and monitored.

Assessment moments

end-of-term and continuous assessment

Examination methods in case of periodic assessment during the first examination period

Oral assessment, Written assessment with open-ended questions

Examination methods in case of periodic assessment during the second examination period

Oral assessment, Written assessment with open-ended questions

Examination methods in case of permanent assessment

Participation, Assignment

Possibilities of retake in case of permanent assessment

examination during the second examination period is possible

Extra information on the examination methods

One evaluation for the theoretical part, permanent and one-time for practical part.
Theoretical part: written exam with open questions followed by oral exam (checking the answers, completing where necessary); Practical part: permanent evaluation of the exercises during the practical courses and test of practical knowledge on the day of the theoretical exam.
Exam structure and content are discussed at the end of the theoretical course.

Calculation of the examination mark

Theory: 90%

Practicum and permanent evaluation: 10%