



## Syllabus

**Term:** 2026/27/1      **Subject name:** Paleontology      **Subject code:** AFOTNAA1-1701

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**Unit (Unit code)**      Institute of Geography and Earth Sciences (FOLDRAJZ)

**Lecturer responsible for the course:** VALLNER Fanni

**Requirement:** Exam

**Classes per week :** 2/0/0

**Classes per term:** 26/0/0

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### Purpose of education:

*Learn how the science of paleontology developed, coalescing information from geology, biology, ecology, anthropology, and archaeology to help us better understand the fascinating and sometimes shocking history of planet Earth (Remembering and Understanding). Understand the development and use of paleontology tools over decades and through many technological breakthroughs (Remembering, understanding, and analyzing). Learn how micro- and macro-fossils can reveal information about the mineralogy, climate, and atmospheric chemistry of the Earth through time, as well as the interrelation of species with their environments (Understanding and Analyzing). Understand why the expansion and spread of life on Earth has not been a linear process of constant development but is instead a constant process of new species appearing and others going extinct, punctuated by episodes of both rapid diversification and mass extinctions (Understanding and Analyzing). Learn how fossils and the substrate that they are preserved in can reveal information about a lifeform and its behavior (Understanding and Analyzing). Learn why the only way to really understand our world is by considering it as a system composed of interactive parts, not as separate, stand-alone boxes of information (Understanding and Analyzing).*

### Contents:

*1st session – Introduction, basic concepts, basic concepts of taphonomy*

*2nd session - Getting to know fossil types and evolutionary laws, additional basic concepts*

*3rd session - Paleobotany I - Cyanobacteria, Algae*

*4th session - Paleobotany II. – Ferns, Gymnosperms, Angiospermae*

*5th session - Protozoas*





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### Contents:

*6th session – Cnidarians, Poriferas*

*7th session - Molluscs I.*

*8th session - Molluscs II.*

*9th session – Annelids, Arthropods, Tentaculatas, Echinoderms*

*10th session - Vertebrates I.*

*11th session - Vertebrates II.*

*12th session - Lagerstätten*

*13th session - The relationship between Earth history and paleontology*

### System of examining and valuation:

*After the semester, students write a written exam.*

*55% is sufficient*

*65% – medium*

*75% - good*

*85% – outstanding*

### Bibliography:





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### **Bibliography:**

*Benton, Michael J. & Harper, David A. T. (2015): Introduction to Paleobiology and the fossil record. - Wiley-Blackwell Publishing London, UK, 592p. ISBN 978-140-514-157-4*

### **Bibliography:**