

The University of Jordan
Faculty of Science
Department of Environment and applied Geology
Course Syllabus of Paleontology (0305701)

Credit Hours: Three credits, Two lectures.

Lectures: Monday & Wednesday 15:30 - 17:00, room Geo. 108.

Office hours: Monday, Wednesday 14:00-15:30.

Dear students welcome in the *Paleontology Course* at the second semester of the **2018/2019** academic year. In about 28 lectures the light will be shed at the following microfossils groups:

1. Pollen and spores. 8 lectures

- Life cycles in land plants.
- Pollen and Spores morphology
- Distribution and ecology
- Classification
- General history of pollen and spores
- Application of pollen and spores

2. Foraminifera. 6 lectures

- The living foraminiferid
- Foraminiferid life history
- The test
- Foraminiferid ecology
- Foraminifera and sedimentology
- Classification
- General history of foraminifera
- Application of foraminifera

3. Ostracods. 5 lectures

- Soft body structure
- The ostracod reproduction and ontology
- Ostracod distribution and ecology
- Ostracods and sedimentology
- Classification
- General history of ostracods
- Application of ostracods

4. Conodontophorida. 5 lectures

- Morphology
- Conodont distribution and ecology
- Classification
- General history of conodonts
- Application of conodonts

5. Acritarcha. 4 lectures

- Classification
- Acritarch affinities and biology
- Acritarch ecology
- General history of acritarchs
- Application of acritarchs

Exams:

1st Exam Will be arrange with students

2st Exam Will be arrange with students

Scale:

60-65 C +

66-70 B-

71-75 B

76-80 B+

81-85 A-

86-100 A

Course Grade:

First exam: value will be 15% of the course grade.

Second exam: value will be 15% of the course grade

Final exam: value will be 30% of the course grade.

Student activities: Project, Presentation and short exams.	30 %
---	-------------

Total course grads	100 %
--------------------	--------------

References:

1. **Palynology:** principles and applications: Jansonius, J. & McGregor D.C.: 3 Volumes, AASP. 2002, 1330 p.
2. **Microfossils:** Brasier, M.D. 1983, 193 p.
3. **Glossary of pollen and spore terminology:** Punt, W., Blackmore, S., Nilsson, S., and Le Thomas, A., LPP Foundation Utrecht. 1994. 71 p.
4. **Treatise on invertebrate paleontology: Raymond C. Moore & Robison, R.A.:** Part W, GSA and the University of Kansas, 1981, 202 p.

Websites References

[American Association of Stratigraphic Palynologists](#)

[Canadian Association of Palynologists](#)

<http://www.geo.arizona.edu/palynology/>

<http://www.bio.uu.nl/~palaeo/glossary>

Prof. Dr. Abdalla Abu Hamad

e-mail: abdalla80@hotmail.com