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| **King Saud University****College of Sciences****Geology and Geophysics Department** |  | **جامعة الملك سعود****كلية العلوم****قسم الجيولوجياوالجيوفيزياء** |

**Geo 342: Paleoecology 2 (1+1)**

**Instructor:** Prof. Abdelbaset El-Sorogy

**Contributor:**

**Room:** 1b59

**Office Hours:**

Monday: 10:00 Am - 12:00 Am

Tuesday: 10:00 Am - 12:00 Am

Wednesday: 10:00 Am - 12:00 Am

Thursday: 10:00 Am - 12:00 Am

**Syllabus:**

The nature and classification of environments – Comparison with living representatives – Evidence of biological activity and associated sediments – Lateral and vertical variations – Geological distribution of assemblages – Trace fossils – Biodiversity – Environmental changes through geologic time (One day field trip).

**Geo 342: Paleoecology 2(1+1)**

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| **Topic** | **No of****Weeks** | **No of****hours** |
| The nature and classification of environments | **2** | **2** |
| Comparison with living representatives | **3** | **3** |
| Evidence of biological activity and associated sediments | **1** | **1** |
| Lateral and vertical variations | **1** | **1** |
| Geological distribution of assemblages | **1** | **1** |
| Trace fossils | **2** | **2** |
| Biodiversity | **2** | **2** |
| Environmental changes through geologic time | **1** | **1** |

**Evaluation (100 marks):**

First test (quiz): 4th week, 10 marks

Second test (quiz): 8th week, 10 marks

Practical exam: 14th week, 30 marks

Semester activities: 10 marks

Final exam: 40 marks

**Reference Books for Geo 342:**

Boardman, R. S., A. H. Cheetham and A. J. Rowell. (1987): Fossil Invertebrates.- Blackwell Scientific Publications, 713p.

Clarkson, E. N. K. (1979): Invertebrate Paleontology and Evolution.- George Allen & Unwin. (1st Ed.).

Clarkson, E. N. K. (1994): Invertebrate Paleontology and Evolution.- George Allen & Unwin. (3rd Ed.).

Dodd, J. R. and R.J. Stanton (1990): Paleoecology: Concepts and applications.- Wiley Interscience. (2nd ed.).

Moore, R. C. (1969): Treatise on Invertebrate Paleontology, Part N: Mollusca 6, Bivalvia (Vol. 3). Geological Society of America. p. 275. [ISBN](http://en.wikipedia.org/wiki/International_Standard_Book_Number) [10: 0813730260](http://en.wikipedia.org/wiki/Special%3ABookSources/10%3A_0813730260).

Ziegler, E. (1980): Einfuehrung in die Palaeontologie. Teil 1. Allgemine Palaeontologie.- Schweizerbart`sche Verlagsbuchhandlung. Stuttgart.