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

**Geo 441: Vertebrate Paleontology 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:**

Origin and classification of chordates – extraction and study of vertebrate fossils – the main vertebrate classes and the appearance in the geologic record – fish and amphibians – age of dinosaurs – birds – appearance of mammals – primates and hominoids – mass extinction.

**Geo 441: Vertebrate Paleontology 2(1+1)**

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| **Topic** | **No of**  **Weeks** | **No of**  **hours** |
| Origin and classification of chordates | **3** | **3** |
| extraction and study of vertebrate fossils | **1** | **1** |
| the main vertebrate classes and the appearance in the geologic record | **3** | **3** |
| fish and amphibians | **3** | **3** |
| age of dinosaurs | **1** | **1** |
| birds | **1** | **1** |
| appearance of mammals | **1** | **1** |
| primates and hominoids | **1** | **1** |
| mass extinction | **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:**

Benton, M. J. (2005): Vertebrate paleontology.-Blackwell publishing, 455p.

Carroll, R. L. (1988): Vertebrate paleontology and evolution.-W. H. Freeman and company, 698p.

Fastovsky D. E. Weishampel D. B. (2005): The evolution and extinction of the donisaurs.- Cambridge University Press, 485.

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

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.).

Said, R. (1990): The Geology of Egypt.- Balkeme Rotterdam, Netherlands, 434 P.