BIOLOGY 4350.40
COMPARATIVE CHORDATE ANATOMY

An analysis of the chordates, their anatomy and biology. Evidence for their evolutionary relationships will be examined.


Lectures M W F 9.30 – 10.30 am. SLH C

Laboratory W cr R 2.30 -5.30 pm. LB 126.

Course Director; B.G. Loughton 020B FS
    Tel: 736 2100 Ext 66643
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Assignments and grading ; Midterm test ; 20%
    Final examination ; 50%
    Laboratory ; 30%
    Total 100%

Laboratory . The quality of your dissections and your understanding of the systems you are studying will be monitored during the course of the term and will contribute to your final lab mark (Max 10%). This will take into account - the neatness of the dissection(s) how clearly the system is displayed – your knowledge and understanding of the system.

Laboratory grade : 10% midterm exam
    10% Final exam.
    10% dissection mark
    Total 30%
LECTURE TOPICS

The course will follow a progression from the earliest primitive chordates to the most advanced.

1. Chordate characters. The protochordates.
2. Agnatha, Lamprey, Hagfish, and Ostracoderms
5. Evolution of bony fish.
7. Amphibians, Frogs and Salamanders. The Labyrinthodonts.
10. Mammals.
11. The primates and Homo sapiens.
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Laboratory Schedule January 2010.

Jan 6/7 Lab 1. Protochordates and lampreys
Jan 13/14 Lab 2. The dogfish shark
Jan 20/21 Lab 3 The dogfish shark
Jan 27/28 Lab 4 The shark and other modern fish
Feb 3/4 Lab 5 Amphibians
Feb 10/11 Lab 6. LAB EXAM

Reading Week

Feb 24/25 Lab 7 Reptiles and Birds
Mar 10/11 Lab 9..Mammals
Mar 17/18 Lab10 Mammals
Mar 24/25 Lab11 Primates.
Mar 31 /Apr 1. LAB EXAM.