CONTRACT, COURSE, and TEXTBOOK INFORMATION - Ichthyology (Fish / Biol 427)

- course web site (password required) – Gordon Haas (UAF - spring 2006) -

instructor:
Dr. Gordon Haas.
office: O'Neill Building - room 235.
- email (remote contact preference): haas@sfos.uaf.edu.
- office phone: (907) 474-5231.
- ‘office hours’: after classes / lab (starting at ~1.00pm on Tuesdays, Thursdays, and Fridays).
  - can meet, or make office appointments for some other times, after class or by email.
  - can also leave me a message on the white board on outside of my office door.
- lecture handouts and returned assignments are available in each class or in the hanging folder outside my office door.
- note - please only hand-in materials to me or under my door.

teaching assistant:
Matt Jones.
- email: m.jones@sfos.uaf.edu.
- (group) office phone: (907) 474-7839.
- ‘office hours’: after class / lab (starting at ~1.00 pm on Tuesdays, Thursdays, & Fridays).
  - otherwise, please make an appointment as needed (in person or by email).
  - note – his office is shared with other graduate students so please respect that.

classroom lectures:
- Natural Sciences Building – room 203.
- Tuesday and Thursday (11:00 am to 1:00 pm).

laboratory:
- Bunnell Building – room 409.
- Friday (10:00 am to 1:00 pm)

UAF BioSciences Library (Arctic Health Building) – Books on Reserve:
- there is no mandatory textbook for this course as I discussed in the introductory class.
- reminder – books are very good sources of information, topics, and as exam study assistance.
  - but, the student papers are to be based on and use the primary scientific literature.
- note - there are often additional copies or earlier editions of these books still available for regular loans.
- Two Hour In-Library Loan or Overnight Loan (0.5 hours before closing until 0.5 hours before opening):
  Ichthyology / Fish Biology:
- Twenty Four Hour Loan:
  Ichthyology / Fish Biology:
  *Fishes of ‘Alaska’ Books:

Other 'Good / Interesting' Ichthyology / Fish Biology Books:

- Beamish, R.J. (ed.). 1995. Climate change and northern fish populations. Canadian Special Publications in Fisheries 121. Fisheries Research Board of Canada, Ottawa, ON, Canada.
- Hoar, W., and D. Randall (eds.). multiple years. Fish Physiology [series of volumes]. Academic Press, New York, NY, USA.
American Fisheries Society, Bethesda, MD, USA.
- Pfeiffer, W.A. 1977. Bibliography of the fishes of the Beaufort Sea. Biological Papers of the University of NOOA, Institute of Arctic Biology, University of Alaska Fairbanks, Fairbanks, AK, USA.

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**SCHEDULE and SYLLABUS (Class and Lab) - Ichthyology (Fish / Biol 427)**

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  - actual specific subjects covered in any lecture or lab may somewhat vary on particular dates.
  - course is still in development, and it is on a new schedule (‘beyond my control’...).
  - schedule is still a good approximation of the material that will be covered in class and lab.
  - note - deadlines for exams / assignments are not going to vary unless instructor indicates otherwise.
    - if such dates change, I will give warning and be receptive to reasonable needs / requests.
  - class lectures (3 credits / units = 75% of course grade).
    - midterm exam = 20%, paper = 25%, and final exam = 30%.
  - laboratory (1 credit / unit) = 25% of course grade.
    - in-lab assignments = 10%, and lab exam = 15%.

**January**

- 24 - Course Assignments, Grading, and Structure.
- 26 - General Introduction to Fishes and Ichthyology.
  - Instruction and Resources on Writing Papers (etc.).
- 27 – No LAB - cancelled (no class).
- 31 - Hagfish - Agnathan Fishes (Superclass Agnatha – jawless fishes).

**February**

- 2 - Lampreys - Agnathan Fishes (Superclass Agnatha – jawless fishes).
- 3 – LAB 1 - Ichthyology Lab and Specimens Introduction, Use, and Safety.
  - External Anatomy / Morphology and Locomotory Forms of Fishes.
    - in-lab assignment one (~1% of total grade).
- 7 - ‘Ancient / Relict’ Fishes (Extinct and Extant).
- 9 - Sharks, Rays, Skates, and Ratfish (Grade Chondrichthyes – jawed cartilaginous fishes).
  - in-lab assignment two (~1% of total grade).
- 14 - Shark Life-History, Feeding, and Attacks (Grade Chondrichthyes – jawed cartilaginous fishes).
- 16 - Eels and Herring (also bonefish, bony-tongues, and tarpon) – jawed bony fishes.
  - Subdivisions Clupeomorpha, Elopomorpha, and Osteoglossomorpha.
- 17 – LAB 3 – Major Fish Taxonomic Groups (and Evolution / Nomenclature / Species / Systematics).
  - in-lab assignment three (~1% of total grade).
- 21 - Superorder Protocanthopterygii.
- 23 - Superorder Ostariophysii (Ostariophysid Fishes).
- 24 – LAB 4 - Hagfish and Lampreys (Superclass Agnatha – jawless fishes).
  - in-lab assignment four (~1% of total grade).
- 28 - Series Perciformes (Perciform Fishes).
  - I will discuss midterm take-home essay exam (no example exam given as it is take-home).

**March**

- 2 - Physiology – (eg. Respiration, Circulation, etc.).