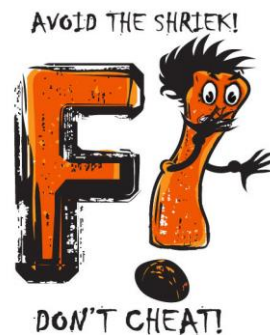


Attendance: You are expected to attend all classes and labs. **There are no make-up labs.**

Academic Integrity Policy: Oklahoma State University is committed to maintaining the highest standards of integrity and ethics. This level of ethical behavior and integrity will be maintained in this course. Participating in a behavior that violates academic integrity (e.g., unauthorized collaboration, plagiarism, multiple submissions, cheating on examinations, fabricating information, helping another person cheat, unauthorized advance access to examinations, altering or destroying the work of others, fraudulently altering academic records, and similar behaviors) will result in a sanction. Sanctions include: receiving a failing grade on an assignment, examination or in the course, receiving a notation of a violation of academic integrity (F!) on your transcript, and being suspended from the University. You have the right to appeal the charge. Additional information is available from the Office of Academic Affairs, 101 Whitehurst, 744-5627, <http://academicintegrity.okstate.edu/>. Familiarize yourself with the new OSU policy on Academic Integrity (available online at: <http://academicintegrity.okstate.edu/doc/aistudenthandout.pdf>).



Special Accommodations: If you have a disability and need special accommodations, the instructor will work with you and the Office of Student Disability Services, 315 Student Union, to provide reasonable accommodations to ensure that you have a fair opportunity to perform in this class. Please advise the instructor of such disability and the desired accommodations as soon as possible, preferably before or immediately after the first scheduled class. You **must** have an official letter from Student Disability Services indicating what constitutes appropriate accommodations. If alternative testing is required, notify the instructor **at least four days prior** to each examination.

Grading*:

Lecture

Exams: 3 (100 pts each)	300 pts
In-class Quizzes: at least 10 (10 pts each)	100
Gould Critical Thinking/Writing Assignment: 5 (15 pts each)	75
Favorite Burgess Shale Animal Review Paper	
-Choice of Animal	10
-Annotated Bibliography	25
-Term Paper	90
<hr/> Lecture subtotal	600 (60%)

Laboratory

Lab Activities (8 @ 4 pts each)	32 pts
Digital Lab Notebook (2 @ 20 pts each)	40
Simulation Experiment Report Sections (4 @ 12 pts each)	48
Revised Simulation Experiment Report	60
Kelp Holdfast Presentation (Recorded)	50
Kelp Holdfast Presentation Discussion	30
Lab Midterm Exam	60
Lab Final Exam	80
<hr/>	
Lab subtotal	400 (40%)

Total

1000 pts

Final Grade: 90-100%=A, 80-89%=B, 70-79%=C, 60-69%=D, below 60%=F.

***If you are taking this course for graduate credit, please see the instructor to discuss additional assignments and the grading scale for graduate credit.**

Exams: There will be three exams in the course. Each exam will cover material from lectures, assigned readings and labs, with an emphasis placed on material presented in lecture. All exams will emphasize material presented since the last exam.

****Points will be deducted for incorrect grammar and spelling. If you want full credit, you must use correct grammar and spelling.****

Makeup exams require **advance notice and outside verification**. Notification of a missed exam must be made **within twenty-four hours** of the missed exam. If you fail to notify your instructor that you missed an exam, you will be given a score of zero on that exam. Acceptable reasons for missing an exam include confining illness, death in the family, etc. The makeup exam **must be taken within one week** after the return to class and will be provided in a **different format** than the in-class exam (see the instructor for details). Exams missed without an excused absence will receive a grade of zero.

Conflicts with Other University Activities: If you know that you are going to miss an exam due to an official university-sponsored activity or military training you may be able to take an early exam. Early exams may be in a **different format** than the in-class exam (see your instructor for details) and any conflicts must be resolved **at least one week prior** to the conflict.

In-class Quizzes: Each week on Friday we will have a 10 point quiz on material presented during the week. I plan on having at least 12 weekly quizzes. Your two lowest quizzes will be dropped.

Gould Critical Thinking/Writing Assignment: This assignment consists of a take-home single spaced typed page (one inch margins, 12 point font) review of specific chapters in "Wonderful Life: The Burgess Shale and the Nature of History". Specific information on each chapter will be provided a week before each chapter review is due (see topics in Schedule).

Favorite Burgess Shale Animal Review Paper: I expect you to write a paper reviewing your favorite Burgess of Shale Invertebrate. The grading for this paper assignment will consist of three parts.

- (1) **Choice of Topic (10 pts):** You will write a single spaced (1 inch margins, 12 point font) page indicating what invertebrate you picked, why you picked this invertebrate and what you would like to write your paper on.
- (2) **Annotated Bibliography (25 pts):** The annotated bibliography will include 5 relevant papers from the peer-reviewed literature for your chosen BS invertebrate. The annotated bibliography will consist of the formatted citation for each paper, followed by 3-5 sentences that summarize the main points of each paper, and 2-3 sentences about what you think about each paper (i.e., what did you like and/or not like about the paper, was there something you found difficult to understand, etc.). The annotated bibliography is due on the date listed on the lecture schedule. Late assignments will be penalized one letter grade for each 24-hour period late.
- (3) **Final Paper (90 pts):** The paper will consist of an updated review of your favorite Burgess Shale Invertebrate. The term paper should consist of an introduction, question or topic addressed and review of the topic. The paper should include at least 5 relevant papers from peer-review literature which hopefully you will provide in your Annotated Bibliography (see 2 above). The paper should be double spaced and no more than 10 pages (double spaced, 1 inch margins and 12 point font) not including the bibliography.

Extra Credit Opportunity: You may visit the Oklahoma Aquarium in Jenks, OK (see <http://www.okaquarium.org/> for details and admission prices) and submit a receipt/ticket stub dated 2014 and a ½ page typed summary about an exhibit of your choice related to what you have learned in class or expect to learn for groups yet to be covered (so anything related to invertebrate structure, function, life history or ecology). You may earn up to **FIVE** points of extra credit based on the quality of your submitted summary. **All extra credit activities must be submitted by April 25, 2014.**

Corrections on exams and assignments for lecture and lab must be requested within one week of the day the grade was returned in class.

Cell Phone Policy: The use of cell phones is prohibited during class, including texting, internet, e-mail, etc. Cell phones must be turned off or put on silent (vibrate) during class. If you choose to use your cell phone, leave the classroom to do so. If you think you qualify for an exception to this policy (e.g., you are experiencing a family emergency), please notify the instructor before class. The use of cell phones and other electronic devices during exams will be considered a violation of the Academic Integrity Policy unless you receive prior approval from the instructor.

****Please see the OSU syllabus attachment on the online classroom site for this course for frequently asked questions related to courses at OSU. ****

LECTURE SCHEDULE – ZOOL 3104 **Subject to Change**

Date		Day	Topic	Reading Assignment
Jan	13	M	Introduction to the Burgess Shale	Ch. 1
Jan	15	W	Animal Structure	Ch. 3
Jan	17	F	Animal Structure	Ch. 3
<i>Kingdom Protista</i>				
Jan	20	M	MLK DAY, NO CLASS	
Jan	22	W	Protists	Ch. 5
Jan	24	F	Protists	Ch. 5
<i>Kingdom Animalia</i>				
Jan	27	M	Porifera	Ch. 6
Jan	29	W	Porifera; Gould Ch. 1 Review Due	Ch. 6
<i>Metazoa – Radiata – Diploblasts</i>				
Jan	31	F	Placozoa and others	Chs. 7
Feb	3	M	Placozoa and others; Cnidaria	Chs. 7 & 8
Feb	5	W	Cnidaria	Ch. 8
Feb	7	F	Cnidaria; Ctenophora	Chs. 8 & 9
Feb	10	M	Test I	
<i>Eumetazoa – Triploblastic Bilateria – Lophotrochozoa</i>				
Feb	12	W	Platyhelminthes	Ch. 10
Feb	14	F	Platyhelminthes; Gould Ch. 2 Review Due	Ch. 10
Feb	17	M	Gastrotricha, Gnathostomulida	Ch. 12
Feb	19	W	Rotifera, Acanthocephala	Ch. 12
Feb	21	F	Entoprocta, Ectoprocta, Brachiopoda	Chs. 12 & 21
Feb	24	M	Nemertea; Mollusca	Chs. 11 & 20
Feb	26	W	Mollusca	Ch. 20
Feb	28	F	Mollusca; Gould Ch. 3 Review Due	Ch. 20
Mar	3	M	Annelida	Ch. 13
Mar	5	W	Annelida	Ch. 13
Mar	7	F	Annelida; Sipuncula and Echiura; Gould Ch.	Chs. 13 & 14
Mar	10	M	Test II	
<i>Eumetazoa – Triploblastic Bilateria – Ecdysozoa</i>				
Mar	12	W	Nematoda	Ch. 12
Mar	14	F	Nematomorpha; Gould Ch. 4 Review Due	Ch. 12
Mar	17-21	M-F	SPRING BREAK, NO CLASS	
Mar	24	M	Kinorhyncha; Priapulida; Loricifera	Ch. 12
Mar	26	W	Onychophora, Tardigrada	Ch. 15
Mar	28	F	Trilobitomorpha; Gould Ch. 5 Review Due	Ch. 15
Mar	31	M	Arthropoda: Hexapoda	Ch. 17
Apr	2	W	Arthropoda: Hexapoda	Ch. 17
Apr	4	F	Arthropoda: Myriapoda; Topic BS Invertebrate Due	Ch. 18

Apr	7	M	Arthropoda: Cheliceriformes	Ch. 19
Apr	9	W	Arthropoda: Cheliceriformes	Ch. 19
Apr	11	F	Arthropoda: Crustacea	Ch. 16
Apr	14	M	Arthropoda: Crustacea	Ch. 16
<i>Eumetazoa – Triploblastic Bilateria – Deuterostomia</i>				
Apr	16	W	Chaetognatha	Ch. 23
Apr	18	F	Echinodermata; Annotated Bibliography Due	Ch. 22
Apr	21	M	Echinodermata	Ch. 22
Apr	23	W	Echinodermata	Ch. 22
Apr	25	F	Hemichordata	Ch. 23
Apr	28	M	Chordata	Ch. 23
Apr	30	W	Invertebrate Phylogeny	Ch. 24
May	2	F	Invertebrate Phylogeny; Paper BS Invertebrate Due	Ch. 24
May	5-9	W	FINAL EXAM WEEK	