## BIOLOGY 362/562 Parasitology Class Schedule - Fall 2012

Instructory	Dr Ta	add C. Huanani	Office Hourse Mar 10 A M 12 D M & Wed 10 11 A M					
Instructor:		odd C. Huspeni	<b>Office Hours:</b> Mon. 10 A.M12 P.M. & Wed. 10-11 A.M.					
Office:		NR Building	Or by appointment <sup>(C)</sup>					
Phone:		346-4250						
Email:	-	eni@uwsp.edu						
Required textbook: Foundations of Parasitology (FOP), 8 <sup>th</sup> Ed. Roberts & Janovy (Bookstore rental)								
<b>Optional textbook:</b>		Parasite Rex by Carl Zimmer (Amazon.com, Borders, etc)						
Required lab	o manua	<b>al:</b> Animal Parasitolo	logy Lecture-Laboratory Manual (APLLM) by Taft & Huspeni					
(Available from the Bookstore)								
The purchas	The purchase of a dissecting kit from the bookstore is also highly recommended.							
Course objective: Course requirements:		The objective of this course is to introduce students to the amazing and diverse world of animal parasites. We will examine topics ranging from life cycles, morphology, adaptations to parasitism, ecology, evolution, physiology, pathological effects, taxonomic classifications, and historical impacts of animal parasites. Students will be exposed (pun intended <sup>©</sup> ) not only to parasites of medical and veterinary importance, but also parasites that demonstrate important ecological, physiological, and life history principles.						
		This course consists of two 50-minute lectures and two 120-minute labs per week. You will be required to take three lecture exams, three lab practical exams, and you will also construct and complete a parasite collection (see details in lab manual).						
Grading:		Points for this cour	rse will be assigned as follows:					
		Two lecture exams Three lab practicals Parasite collection Cumulative final le	(60  points each) = 180  points					
		Final grades will be assigned based on the following <b>minimum</b> cutoff percentages:						
		$\begin{array}{ll} A & = \geq 93\% \\ A - & = 89.9\% \\ B + & = 87\% \\ B & = 83\% \end{array}$	$\begin{array}{rll} B- & = 79.9\% & D+ & = 67\% \\ C+ & = 77\% & D & = 63\% \\ C & = 73\% & F & = 55\% \\ C- & = 69.9\% \end{array}$					
Attendance:		positive correlation grade. We will free missed classes is ex serious illness (requ relating to a studen providing the stude	ture and lab is mandatory, and past experience indicates there is a strong in between the amount of time a student spends in class and her/his final equently use living material, and scheduling make-up opportunities for xceedingly difficult. Make-up exams will be provided only in the case of puiring a physician's note), or the death of a relative. However, absences it's religious beliefs will be accommodated according to UWS 22.03, ent notifies the instructor within the first three weeks of the beginning of a specific dates she/he will be absent					

	The final cumulative exam (210 points) is scheduled for: Wed. Dec 19 @ 12:30 - 2:30 P.M.
	Parasite collections are due by 5:00 P.M. on Dec. 13 (though they may be turned in earlier ☺).
Important Dates:	
Dissection Specimens:	Assorted carcasses (e.g., raptors, assorted mammals, etc) are available for student dissection to procure parasites for the parasite collection. The available carcasses can be found in the labeled freezer in TNR 460 and are available on a first come first served basis. Carcasses from completed dissections <b>must</b> be placed into the other labeled freezer for appropriate disposal. Ask your instructor about other carcasses that might also be available.
Open Lab Time:	I will attempt to leave the lab door open (or unlocked) during all other available hours. Students should plan dissections and slide preparation activities accordingly during open blocks of room time. Generally, prepared slides will be available for student review during all open lab times.
Study Aids:	The primary handouts for lectures are provided in the Lecture Supplement. The Lecture Supplement is available as a file named "Bio 362 Lecture Supplement.pdf" on D2L. I will make and distribute to you copies of any color handouts in the Lecture Supplement. Additional handouts may also be provided during particular lectures. Lecture PowerPoint presentations will be made available to registered students through the course link in <i>Desire to Learn</i> (D2L). Students must recognize the content of these files <b>cannot</b> replace regular class attendance.
Students with disabilities:	Students with disabilities are welcome and encouraged in this class. Students with disabilities should contact the Office of Disability Service during the first two weeks of the semester if they wish to request specific accommodations.
Academic integrity:	Any misrepresentation of your work, including plagiarism, false data collection, or cheating on exams will result in a zero (0) being recorded for that activity. Please see me if you have any questions regarding this policy. Students are encouraged to become familiar with and understand the <i>UWSP Community Bill of Rights and Responsibilities</i> , particularly those sections governing student academic conduct. The <i>UWSP Community Bill of Rights and Responsibilities</i> is available for download at: http://www.uwsp.edu/admin/stuaffairs/rights/rights/hap14.pdf

## Animal Parasitology (Bio 362/562) Fall 2012 Schedule

DATE	TE TOPIC PAGES				
Sep. 4	Introduction, grading, general principles, definitions	Chaps. 1 & 2 (FOP)			
Sep. 5	Parasite adaptations, host specificity, Turbellaria, Monogenea, Aspidoboth.	Chaps. 13-14, 19 (FOP)			
Sep. 6	Digenea: schistosome pathology, immunology, distribution, & life cycle	Chap. 3, 15-16 (FOP)			
Sep. 10	Lab 1: Turbellaria, Monogenea & Aspidobothrea	Pp. 1-12 (APPLM)			
Sep. 11	Schistosomiasis control, other digeneans, trematode community ecology	Chaps. 17 & 18 (FOP)			
Sep. 12	Lab 2: Digenea Intro., Digenea II & Schistosoma (Adult worms)	Pp. 12-26 (APPLM)			
Sep. 13	Mesozoa, life in gut, Cestoda: <i>Hymenolepis</i> physiology & growth	Chaps. 12 & 20 (FOP)			
Sep. 17	Lab 3: Digenea III (Adult worms); Intro. to processing parasites	Pp. 27-36 (APPLM)			
Sep. 18	Cestoda energetics, Hymenolepis competition, gut parasite communities	Chap. 20 (FOP)			
Sep. 19	Lab 4: Digenea IV (Adult worms)	Pp. 37-52 (APPLM)			
Sep. 20	Cestodaria, Pseudophyllidea & major eucestode orders	Chap. 21 (FOP)			
Sep. 24	Lab 5: Larval Digenea & Life Cycles	Pp. 53-78 (APPLM)			
Sep. 25	Cyclophyllideans I: Taenia spp., Hymenolepis spp., Dipylidium caninum	Chap. 21 (FOP)			
Sep. 26	Lab 6: Cestodaria, major eucestode orders	Pp. 79-105 (APPLM)			
Sep. 27	Cyclophyllideans II: Hydatid disease	Chap. 21 (FOP)			
Oct. 1	Lab 7: Cyclophyllideans I	Pp. 106-116 (APPLM)			
Oct. 2	Nematodes: General features, Trichostrongyles, host hybrids, sex selection	Chap. 22 (FOP)			
Oct. 3	Lab 8: Cyclophyllideans II & Caryophyllidea	Pp. 117-124 (APPLM)			
Oct. 4	Nematodes: Geohelminths I	Chaps. 23-28 (FOP)			
Oct. 8	Lab 9: Nematodes I	Pp. 125-153 (APPLM)			
Oct. 9	Nematodes: Geohelminths II	Chaps. 23-28 (FOP)			
Oct. 10	Lab Practical 1 followed by open lab for parasite collection work				
Oct. 11	Lecture Exam 1				
Oct. 15	Lab 10: Nematodes II	Pp. 154-159 (APPLM)			
Oct. 16	Nematodes: Guinea worm, filarial worms	Chaps. 29 & 30 (FOP)			
Oct. 17	Lab 11: Nematodes III	Pp. 160-174 (APPLM)			
Oct. 18	Insect nematodes, Nematomorpha & Acanthocephala	Chaps. 24, 31-32 (FOP)			

DATE	ТОРІС	PAGES
Oct. 22	Lab 12: Fecal survey or "We're #1 when it comes to #2" ©	Pp.175, 309-328 (APPLM)
Oct. 23	Parasitic Crustacea & parasitic castration	Chaps. 33-34 (FOP)
Oct. 24	Lab 13: Acanthocephala, Mollusca, Annelida & Pentastomida	Pp. 176-182 (APPLM)
Oct. 25	Parasitic crustacea & chelicerates (mites & ticks)	Chaps. 34-35, 41 (FOP)
Oct. 29	Lab 14: Parasitic Crustacea	Pp. 183-189 (APPLM)
Oct. 30	Insecta: Siphonaptera, Anoplura, Mallophaga, Diptera I	Chaps. 36-39 (FOP)
Oct. 31	Lab 15: Mites, Ticks & Siphonaptera	Pp. 190-206 (APPLM)
Nov. 1	Insecta: Diptera II, biological control and Hymenoptera	Chaps. 39 & 40 (FOP)
Nov. 5	Lab 16: Insecta: Mallophaga and Anoplura	Рр. 207-213 (АРРЬМ)
Nov. 6	Cnidaria (Myxozoa), Protista: Microspora & Amebae	Chaps. 11, 4 & 7 (FOP)
Nov. 7	Lab Practical 2 followed by open lab for parasite collection work	
Nov. 8	Lecture Exam II	
Nov. 12	Lab 17: Insecta: Diptera I: sand flies, mosquitoes, black flies, etc	Pp. 214-238 (APPLM)
Nov. 13	Termite flagellates, gut flagellates, Opalinata, & Hemoflagellates I	Chaps. 6 & 5 (FOP)
Nov. 14	Lab 18: Insecta: Diptera II, Hemiptera, Hymenoptera, & Coleoptera	Pp. 239-250 (APPLM)
Nov. 15	Hemoflagellates II: New World Sleeping Sickness, Leishmaniasis	Chap. 5 (FOP)
Nov. 19	Lab 19: Myxozoa, Microsporidia & Amoebae	Pp. 251-260 (APPLM)
Nov. 20	Ciliates & Apicomplexa I: Gregarines	Chaps. 10 & 8 (FOP)
Nov. 21	Lab 20: Gut Flagellates & Opalinata	Pp. 261-266 (APPLM)
Nov. 26	Lab 21: Hemoflagellates	Pp. 267-274 (APPLM)
Nov. 27	Apicomplexa II: Coccidians, <i>Toxoplasma</i> life cycle & epidemiology	Chap. 8 (FOP)
Nov. 28	Lab 22: Ciliates & Apicomplexa I (Gregarines)	Pp. 275-282 (APPLM)
Nov. 29	Malaria: History & life cycle	Chap. 9 (FOP)
Dec. 3	Lab 23: Apicomplexa II (Coccidians)	Pp. 283-287 (APPLM)
Dec. 4	Malaria life cycle & pathology I	Chap. 9 (FOP)
Dec. 5	Labs 24 & 25: Malaria I & II	Pp. 288-298 (APPLM)
Dec. 6	Malaria pathology II	Chap. 9 (FOP)
Dec. 10	Lab: Open lab for work on parasite collection	
Dec. 11	Malaria diagnosis, treatment, history, & genetic adaptations to malaria	Chap. 9 (FOP)
Dec. 12	Lab Practical III & open lab for work on parasite collection	
Dec. 13	Overview Lecture (or "You are <i>how</i> you eat" <sup>(2)</sup>	