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Fall 9-1-2001

### BIOL 345.01: Principles of Physiology

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*University of Montana - Missoula*

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# Biol. 345 - Principles of Physiology - Autumn Semester 2001

## Course Policies

Instructor: Prof. Delbert Kilgore

Office: HS 106

Office Hours: M 3-5, T 8-10, F 12-2 or by Arrangement

Office Phone Number: 243-4092

E-mail Address: [kilgore@selway.umt.edu](mailto:kilgore@selway.umt.edu)

**Lecture Exams:** There are three non-comprehensive hour exams scheduled during the semester. Each of these will be 100 point exams consisting of multiple choice, matching, short answer, and interpretation questions. Material from both lecture and the reading assignments will be covered on exams. Any questions arising from the grading of your exams, must be resolved before the next exam is given.

**Course Grade:** Your letter grade for the course will be based on the percentage of the 300 total possible points you earn on exams. Final course grades will be assigned using the following scale: A = 100-90; B = 89-80; C = 79-70; D = 69-60; F = 59 and below. "Extra Credit" is not available. If you do not take all the exams, you will probably not pass.

**Make-up Exams:** Make-up exams will only be given for medical reasons and then only if: a) permission is granted in advance or b) you have an explanation from a physician. "No-shows" will automatically be given a zero score. Make-up exams must be taken before the next scheduled exam and will consist of short answer questions only. Enough said!

**Accommodations:** Accommodations to insure access for students with disabilities will be gladly made, but to qualify you must be registered with Disability Services for Students (DSS) and present a letter of verification from DSS. Arrangements for accommodations on exams must be made through DSS at least one week in advance and you must make an appointment with me to discuss these arrangements.

**Policy on Incompletes:** The faculty senate policy on incomplete grades, as reported on p. 17 of the 2001-2002 catalog, will be followed.

**Student Conduct:** The principles and policies embodied in the Student Conduct Code will be adhered to in this course (p. 14 of the 2001-2002 catalog).

**Auditors:** Students auditing the course must inform me of their registration status at the first class meeting and are required to attend all lectures. A report of "Attendance Was Not Satisfactory" will be placed on the academic record of students enrolled under this option who miss more than three lecture periods during the semester.

## Important Dates

Sept. 10	Last day to add this class by Dial BEAR/Cyberbear (DBS policy).
Sept. 24	Last day to drop by Dial BEAR/Cyberbear and receive a full refund. A "W" will appear on your transcript and fees will not be refunded after this date.
Sept. 24	Last day to pay fees.
Oct. 1	Spring 2002 graduation applications due.
Oct. 15	Last day to drop this class or change grading option with drop/add form.* A "WP" or "WF" will appear on your transcript after this date.
Oct. 29	Advising for Spring 2002 begins.
Nov. 5-19	Spring 2002 registration begins.
Nov. 12	Veteran's Day Holiday
Nov. 21-23	Thanksgiving Vacation
Dec. 7	Last day to withdraw from the semester.
Dec. 14	Last day for drop petitions. You will not be allowed to drop the course after this date.

\* "Students are expected, when selecting and registering for their courses, to make informed choices and to regard those choices as semester-long commitments and obligations." Therefore, petitions to drop or change grading option after the 30th instructional day of the semester (Oct. 15) will not be recommended unless very unusual circumstances exist and then only if written verification is provided. Petitions to protect your GPA or to avoid a "WF" on your transcript will not be recommended.

**Biol. 345 - Principles of Physiology - Autumn Semester 2001**  
**Lecture: 11:10-12:00 MWF; MCG 215**

<u>DATE</u>	<u>LECTURE</u>	<u>READING ASSIGNMENT(pp.)</u> <sup>*</sup>
Sept.5(W)	Course objectives and policies	
	<b>Central Principles in Animal Physiology</b>	
7(F), 10(M)	Adaptation and homeostasis	1-14
12(W)	Control theory and systems	
14(F)	Scaling and allometry	674-676, 725
	<b>Cellular Physiology</b>	
17(M)	Bioelectric potentials	127-161
19(W), 21(F)	Sensing the environment	217-231
24(M), 26(W)	Hormone action and secretion	301-349
28(F), Oct.1(M)	Muscles and movement	351-404
	<b>Systems and Environmental Physiology</b>	
3(W)	Circulation: general plan, compartments, and blood volume	467-512, 515-516
5(F)	<b>FIRST HOUR EXAM</b>	
8(M), 10(W)	Circulation: patterns, hemodynamics and control	
12(F), 15(M)	Respiration: respiratory environments, gas laws, and fundamentals of gas exchange	517-529
17(W)	Respiration: pigments and oxygen transport	
19(F), 22(M)	Respiration: gas exchange in air breathers	535-562, 565-570
24(W), 26(F)	Respiration: gas exchange in water breathers	
29(M), 31(W)	Hypoxia and diving	512-515, 562-565
Nov.2(F), 5(M)	Energy metabolism: basic principles, methodologies and effect of body size	665-676
7(W)	<b>SECOND HOUR EXAM</b>	
9(F), 14(W)	Energy metabolism: effects of temperature, oxygen concentration, locomotion and food habits	677-685, 706-713
16(F), 19(M)	Thermal physiology of ectotherms	685-692

26(M), 28(W)	Thermal physiology of endotherms	692-706
30(F), Dec.3(M)	Nitrogen excretion and excretory organs	587-626
5(W), 7(F)	Exchanges of salts and water: mechanisms	571-587
10(M), 12(W), 14(F)	Exchanges of salts and water: integration	
20(R)	<b>FINAL HOUR EXAM (8:00 - 10:00)</b>	

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\* Textbook: Animal Physiology: Mechanisms and Adaptations. D. Randall, W. Burggren, and K. French, W.H. Freeman, 4th Edition, 1997.