

January 21, 2003

## CLASS INFORMATION

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### BIOCHEMISTRY AND MOLECULAR BIOLOGY/BIOLOGY 3100

1. 3 lectures/week, MWF 9:05 - 9:55 am; No lab.
2. Final grade is an average of the four exams, 25% each.

### **There will be no make-ups.**

If you miss a test and you have a valid excuse in writing your zero grade will not be included in the final average. Otherwise ....

3. Drop-Add is in the Biochemistry Main Office, Life Science Building.
4. Test questions will be **ONLY** on what is presented in class: in the overheads, written on the board, dictated, handed out, or specified in the text.

Complete lecture notes can be copied from the Web site:

<http://bmbiris.bmb.uga.edu/3100/>

OR

[www.uga.edu/biochem/](http://www.uga.edu/biochem/)

Questions representative of the exams are also to be found

there. These questions are basic to understanding how biochemistry

works in life and so are worthy of being given again in tests, usually but not always, with small modifications.

Therefore you may observe that many questions in each of the quizzes or exams will be identical. Better make sure you can answer

them!

5. There are many very useful web sites for learning aids or for further reading:

[www.els.net](http://www.els.net)

[Www.BioChemLinks.com](http://Www.BioChemLinks.com)

[www.usm.maine.edu/~rhodes/Biochem/index.html](http://www.usm.maine.edu/~rhodes/Biochem/index.html)

[www.worthpublishers.com/lehninger3d/index.html](http://www.worthpublishers.com/lehninger3d/index.html)

[Www.prenhall.com/horton](http://Www.prenhall.com/horton)

This one is a complete medical biochemistry "E-book":  
[web.indstate.edu/thcme/mwking](http://web.indstate.edu/thcme/mwking)

There is now a text-book on-line:  
[www.ncbi.nlm.nih.gov:80/entrez/query/Books/Help/bookover.html](http://www.ncbi.nlm.nih.gov:80/entrez/query/Books/Help/bookover.html)

6. Tutors are available to help you at the times to be announced (See "Questions and Answers")

7. We can see you anytime by appointment but the best way to communicate is by email:

[jlee@arches.uga.edu](mailto:jlee@arches.uga.edu) Life Science A120A 542-1764

[dervar@bmb.uga.edu](mailto:dervar@bmb.uga.edu) 542-1693 Life Sciences A218 542-1693

8. Class **NOTES** for the second half of the course will be available for purchase at the Biosciences Learning Center, Bioscience Bldg; \$7 (110 pages). **PURCHASE OF NOTES IS MANDATORY.**

9. This is an HONORS OPTION course. A 10 page research report is required to receive credit. Register with Dr. Dervartanian.

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**BIOL/BCMB/CHEM 3100 Lecture Schedule. Spring 2003**

**Textbook: Principles of Biochemistry; Horton et al., 3rd edition**

**09:05-09:55 am, Mon, Wed, Fri. Room C-127, Life Sciences Building**

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INSTR.	DATE	TOPIC	READING
JL	Jan. 10-15	Course Introduction; Water; Review of Organic Chemistry;	Chaps. 1-2
JL	Jan. 17-24	Amino Acids and The Primary Structure of Proteins	Chap. 3
	Jan. 20	Martin Luther King, Jr. HOLIDAY	
JL	Jan. 27-31	Proteins: Three-Dimensional Structure and Function	Chap. 4
JL	Feb 3-5	Properties of Enzymes	Chap. 5
	Feb. 7	<b>EXAM I Introduction; Organic Chemistry-Enzymes</b>	<b>Chaps.3-5</b>
JL	Feb. 10-12	Mechanisms of Enzymes	Chap. 6
JL	Feb. 14-17	Coenzymes	Chap.7
JL	Feb. 19-21	Nucleic acids	Chap.19
JL	Feb. 24-26	Protein Synthesis	Chap 22
JL	Feb 28-Mar 3	Lipids and membranes	Chap.9
	Mar 7	<b>EXAM II</b>	<b>Chaps. 6,7,9,19,22</b>
		<b>PURCHASE THE NOTES</b>	
	March 5	<b>NO CLASS</b>	
DD	March 10	Bioenergetics	SEE NOTES
DD	March 12-24	Carbohydrates	" + Chap. 8
	MARCH 17-21	Spring Break	
DD	March 24-26	Glycolysis	" + Chap. 11
DD	March 28-31	Gluconeogenesis and Pentose hosphate shunt	NOTES + Chap.13
DD	April 2-4	Citric Acid Cycle	NOTES + Chap. 12
	April 9	<b>EXAM III</b>	<b>NOTES + Chaps 8, 11-13</b>
DD	April 9-14	Oxidative Phosphorylation	" + Chap. 14
DD	April 16-18	Photosynthesis	" + Chap. 15
DD	April 21-23	Lipid Metabolism	" + Chap. 16
DD	April 23-25	Amino Acid Metabolism	" + Chap. 17
DD	April 31	Nitrogen Cycle: Nitrogenase	

May 9 12:00 - 3:00 pm EXAM IV NOTES + Chaps. 14-17

***IMPORTANT: NOTES ARE PRIMARY SOURCE WHILE CHAPTERS IN TEXTBOOK ARE SUPPLEMENTARY***

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**Each exam is worth 25%, thus four exams are 100%.**

**If you miss an exam, you must have an official excuse, otherwise you will receive a zero for that exam. There are NO make-up exams!**

**Prof. Dan DerVartanian is located in Room A218, Life Sciences Building, Tel. 542-4620**

**Prof. John Lee is located in Room A120A, Life Sciences Building, Tel. 542-1764**

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### **Suggestions for further reading:**

(In addition to those already cited in the lecture notes)

- **Richard Dawkins. Unweaving the Rainbow: Science, Delusion, and the Appetite for Wonder. Houghton, Mifflin and Co. (1998).**
- **John Maddox. What Remains to be Discovered: Mapping the Secrets of the Universe, the Origins of Life, and the Future of the Human Race. Free Press (1998).**
- **Stephen Weinberg. The First Three Minutes: A Modern View of the Origin of the Universe. Basic Books, NY (1988)**
- **Edward O. Wilson. The Future of Life. Knopf. NY (2002).**

### **Other goodies**

- **Undergrad scholarships (\$20,000/yr) <http://ugsp.info.nih.gov>**