

**MOLECULAR BIOLOGY AND BIOCHEMISTRY 694:407  
& 115:511  
LECTURE SCHEDULE - FALL 2011**

Place: Busch TF2, (10:20-11:40 AM) Science & Engineering Resource Center 111

Course Number: 01:694:407:01 Index 20950

16:115:511:01 Index 21201

Course Coordinator: Dr. Frank Deis (Nelson A 311, 732-445-2814)

Grades posted at: [http://www.rci.rutgers.edu/~molbio/Courses/MBB\\_408\\_512/512.html](http://www.rci.rutgers.edu/~molbio/Courses/MBB_408_512/512.html)

Textbook site: <http://www.whfreeman.com/lehninger>

	Date	Lecturer	Topics	Chapter*
1	9/2	Deis	Foundations of Biochemistry	Leh.1
2	9/6	" "	Water (pH and buffers)	2
3	9/9	Severinov	Amino Acids, Peptides, and Proteins	3
4	9/13	" "	Proteins, Lab Methods, Bioinformatics	3
5	9/16	" "	3D Structure of Proteins	4
6	9/20	" "	Protein Function – Hemoglobin	5
7	9/23	" "	Enzymes	6
8	9/27	" "	Nucleotides & Nucleic Acids	8
	9/30	TEST #1	[over lectures 1-7]	
9	10/4	Deis	Carbohydrates	7
10	10/7	" "	Lipids	10
11	10/11	" "	Bioenergetics, Coenzymes	13
12	10/14	" "	Glycolysis & Gluconeogenesis	14
13	10/18	" "	Pentose Phosphate	14
14	10/21	" "	Glucose and Glycogen	15
15	10/25	" "	Citric Acid Cycle	16
	10/28	TEST #2	[over lectures 8-13]	
16	11/1	Niederman	Membrane Transport	11
17	11/4	" "	Light Reactions of Photosynthesis	19
18	11/8	" "	Lipid Metabolism	17,21
19	11/11	" "	Protein Turnover	27
20	11/15	" "	Signal Transduction	12
	11/18	TEST #3	[over lectures 14-19]	
	11/22		<i>designated for Thursday classes</i>	
21	11/29	Deis	Electron Transport, Oxidative Phosphorylation I	19
22	12/2	" "	Electron Transport, Oxidative Phosphorylation II	19
23	12/6	" "	Amino Acid Catabolism & The Urea Cycle	18
24	12/9	" "	Amino Acid Biosynthesis	22
25	12/13	" "	Nucleotide Metabolism	22
FIN	12/23	TEST #4	[over lectures 20-25]	Friday, 9-11 AM

\*Required Text: Lehninger, Nelson, Cox (2008) **Principles of Biochemistry**, 5th Edition, W.H. Freeman & Co.

There will be four hourly examinations. The hourlies cover the material as indicated in the syllabus. The final grade is made up of the average of the hourlies. The fourth hourly will be given in the final exam time slot. There will be *no cumulative final* exam. Hourly exams will be given in the classroom, SEC-111 and an overflow room, (SEC 216). Seating will be assigned.

694:407

Molecular Biology and Biochemistry 694:407-408 is offered as the primary lecture course for students in the Molecular Biology and Biochemistry major, as well as for non-majors who wish to enroll in a modern course in this discipline. MBB 115:511 mainly serves graduate students who are not Biochemistry majors. Graduate level Biochemistry majors should take 115:501-502.

The Lecturers and Teaching Assistants listed on the accompanying syllabus can be consulted for additional assistance by appointment or during office hours:

			<u>Phone #</u>
Dr. Konstantin Severinov	Friday 12-2	Waksman 32	732-445-6095
Dr. Frank Deis (coordinator)	Tuesday 12-2	Nelson A-311	732-445-2814
Dr. Robert A. Niederman	By appointment	Nelson A-317	732-445-3985

There will be four hourly examinations as noted on your lecture schedule. The hourlies cover the material as indicated in the syllabus. All exams will be graded promptly and the grades and answer keys will be posted. Requests for corrections to exams will be considered up to but not later than two weeks after the return of the exam papers.

The final grade is made up of the average of these examinations.

Students who are unable to take an hourly exam at the scheduled time because of a compelling reason supported by documentation, may be permitted to take a make-up examination. Arrangements should be made with Dr. Deis. Professors have discretion to penalize make-up tests. Email addresses:

[DEIS@RCI.RUTGERS.EDU](mailto:DEIS@RCI.RUTGERS.EDU)  
[RNIEDERM@RCI.RUTGERS.EDU](mailto:RNIEDERM@RCI.RUTGERS.EDU)

[SEVERIK@WAKSMAN.RUTGERS.EDU](mailto:SEVERIK@WAKSMAN.RUTGERS.EDU)