

Biochemistry II (Bio 3362)
Fall Semester 2005
Tuesday & Thursday, 9:30-10:45
Room FO3.616

Text: "Biochemistry" by R.H. Garrett and C.M. Grisham, 3rd edition (2005)

There are two instructors in the course, Drs. S. Gavva and R. Draper. There are four midterm exams on dates listed in the schedule below. The final grade will be the average of the four midterms. Make-up exams will be allowed only in exceptional cases, and only if evidence documenting the reason is supplied. Make-up exams may have a verbal component.

Dates	Class	Instructor	Lecture	Reading	Topics
Aug 18	1	S. Gavva	1	G&G Ch. 21	Photosynthesis and photophosphorylation
Aug 23	2	S. Gavva	2	G&G Ch. 21	CO ₂ fixation
Aug 25	3	S. Gavva	3	G&G Ch. 25	The nitrogen cycle, nitrogen acquisition, ammonia assimilation, and glutamine synthetase
Aug 30	4	S. Gavva	4	G&G Ch. 25	Amino acid synthesis I: transaminases, the glutamate family and the urea cycle
Sept 1	5	S. Gavva	5	G&G Ch. 25	Amino acid synthesis II: the aspartate and pyruvate families
Sept 6	6	S. Gavva	6	G&G Ch. 25	Amino acid synthesis III: the 3-P-glycerate and aromatic amino acids, sulfur metabolism, histidine
Sept 8	7	S. Gavva	7	G&G Ch. 25	Amino acid synthesis IV: Aspects of amino acid degradation
Sept 13	8	S. Gavva			Midterm Exam I
Sept 15	9	S. Gavva	8	G&G Ch. 26	Purine synthesis to IMP
Sept 20	10	S. Gavva	9	G&G Ch. 26	Purine synthesis (continued), salvage and degradation
Sept 22	11	S. Gavva	10	G&G Ch. 26	Pyrimidines and deoxyribonucleotide synthesis
Sept 27	12	S. Gavva	11	G&G Ch. 10	Nucleotides and nucleic acids
Sept 29	13	S. Gavva	12	G&G Ch. 11	Structures of nucleic acids
Oct 4	14	S. Gavva	13	G&G Ch. 11	Structures of nucleic acids
Oct 6	15	R. Draper	14	G&G Ch. 8	Lipid structures figures
Oct 11	17	R. Draper	15	G&G Ch. 9	Membrane structure: lipids and proteins figures
Oct 13	16	S. Gavva			Midterm Exam 2
Oct 18	18	R. Draper	16	G&G Ch. 9	Membrane structure: lipids and proteins figures
Oct 20	19	R. Draper	17	G&G Ch. 9	Membrane transport figures
Oct 25	20	R. Draper	18	G&G Ch. 9	Membrane transport figures
Oct 27	21	R. Draper	19	G&G Ch. 23	Fatty acid catabolism figures
Nov 1	22	R. Draper	20	G&G Ch. 23	Fatty acid catabolism figures
Nov 3	23	R. Draper			Midterm Exam 3
Nov 8	24	R. Draper	21	G&G Ch. 24	Biosynthesis of fatty acids and lipids: sterols and sterol metabolism figures
Nov 10	25	R. Draper	22	G&G Ch. 24	Biosynthesis of fatty acids and lipids: sterols and sterol metabolism figures
Nov 15	26	R. Draper	23	G&G Ch. 24	Biosynthesis of fatty acids and lipids: sterols and sterol metabolism
Nov 17	27	R. Draper	24	G&G Ch. 27	Integration of metabolism figures
Nov 22	28	R. Draper	25	G&G Ch. 27	Integration of metabolism
Dec 1	29	R. Draper			Midterm Exam 4, 9 a.m. in normal classroom