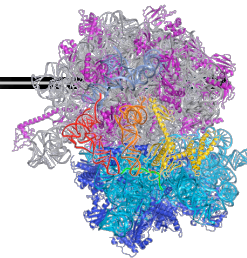


## UPDATE Chem 332 Biochemistry II Spring 2023



### Dr. Joseph J. Provost

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Phone: 260-7564 (office)

Learning Commons 210

Class Time: 9:05-10:00 M,W,F

**Biochemistry at work:** In eukaryotes, the ribosome is composed of ~6,880 nucleotides of RNA and 79 proteins. Differences between bacterial and eukaryotic ribosome structures have been exploited to develop antibiotics.

### Office Hours- In person – if you want a zoom meeting during one of these times, make a reservation by email:

Monday	10:00	Tuesday	4:00	Wednesday	3:30
Thursday	Appt	Friday	11:15		

I will be in my office (487), or my research laboratory (425) during office hours and pretty much most other times of the day. I don't care how busy I am I will make time for your questions and concerns.

**Grades:** There will be four examinations. Each regular examination will be normalized to 300 pts each. The grade cut offs are A-92%, B-80%, C-70%, D-60% and F-50%. These are tentative, may be decreased but will not be increased. Learning objectives and chapter questions will be provided but not graded. **Make-up examinations:** These will be given only for major, documented emergencies (severe illness, death in family...) **prior notice** is required.

- Three Exams (300 points each)	900 points
- Metabolism Case Study	25 points
- PEPCK Paper Assignment	25 points
- Cell Signal Paper Assignment	25 points
- Cancer Paper Assignment	25 points
	Total 1000 points

**Tentative Schedule** – we will adjust based on progress of the class and pace of discussion.

Date	Topic	Chapter
Mar 6-10	Spring Break	
Mon Mar 13	Lipid Metabolism	20
Wed Mar 15	Lipid Metabolism	20
Fri Mar 17	Lipid Metabolism	20
Mon Mar 20	Metabolic Integration	22
Wed Mar 22	Metabolic Integration	22
Fri Mar 24	Cell Signaling	13
Mon Mar 27	Cell Signaling	13
Wed Mar 29	Cell Signaling	13
Fri Mar 31	Exam II	
Mon Apr 3	PEPCK Papers	Web linked pubs
Wed Apr 5	PEPCK Papers	Web linked pubs
Fri Apr 7	Easter Break	
Mon Apr 10	Easter Break	
Wed Apr 12	Cell Signaling	13
Fri Apr 14	Cell Signaling	13
Mon Apr 17	Cell Signaling	13
Wed Apr 19	Cell Signaling Paper and Discussion	Web Links
Fri Apr 21	DNA/RNA Structure and Protein Binding	24(1-4)
Mon Apr 24	DNA Repair	25
Wed Apr 26	DNA Repair	25
Fri Apr 28	CRISPR	Web Links
Mon May 1	Biochemistry of Cancer – Introduction and Nature of Cancer	28(4)
Wed May 3	Biochemistry of Cancer – Cancer Metabolism and Warburg Effect	Web Links and Bb
Fri May 5	Biochemistry of Cancer – Cellular Oncogenes	Web Links and Bb
Mon May 8	Biochemistry of Cancer – Tumor Suppressors	Web Links and Bb
Wed May 10	Biochemistry of Cancer – p53 and Apoptosis	Web Links and Bb
Fri May 12	Biochemistry of Cancer – Invasion and Metastasis	Web Links and Bb
Mon May 15	Biochemistry of Cancer – Treatment of Cancer	Web Links and Bb
Mon May 24	Final / Exam III 8:00 – 10:00	