

Instructors: Dr. Michael Stowell
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Office Hours: Monday 14:00-16:00

Dr. Gia Voeltz
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Office Hours: Monday 14:00-16:00

Lecture: MWF 12:00–12:50 PM in MCDB A2B70

Textbook: Cell & Molecular Biology, 7th Edition, Karp (ed.), John Wiley & Sons, Inc.

Lab Coordinator: Joy Power 303-735-2723
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Grading Policy

There will be 3 semester exams, each worth 100 points, and a final exam worth 150 points. The final exam will cover material from the entire semester. Weekly quizzes will be worth 50 points in total. The final grade is determined from the scores of the 4 exams and the quizzes worth 50 points, with a maximum total of 500 points. Clicker questions are BONUS points.

Each of the 3 semester exams occurs during a regularly scheduled lecture period and will be written such that it can be completed in less than 45 minutes. Be prepared – the relatively short amount of time adds an extra challenge.

Upon dispute over how an exam answer has been graded, the exam can be submitted to Joy Power for a "re-grade" within ONE WEEK after it is handed back to you. You must also submit a written explanation of why you think points were unfairly withheld and what you think the correct score should be. Re-grades will be returned one week after receipt. We reserve the right to re-grade the entire exam; as a result, your score may increase or decrease.

Additional Notes:

(1) If you qualify for accommodations because of a disability, submit to me a letter from Disability Services within the first 2 weeks of the semester. Disability Services determines accommodations based on documented disabilities. (303-492-8671, Willard 322, <http://www.colorado.edu/disabilityservices>).

(2) See http://www.colorado.edu/UCB/policies/fac_relig.html regarding the University of Colorado policy on observance of religious holidays and absences from classes and/or exams. None of the exams for MCDB 3145 are scheduled on religious holidays. Attendance is not required.

(3) See the University Student Honor Code: <http://www.colorado.edu/academics/honorcode/Faculty.html>. Cheating is not tolerated in MCDB 3145.

Lecture Outline

I. Cell Components and Compartments – Part I (Jan 11 – Feb 5)

- A. Chemical Basis of Cell/Protein Folding (M.S.) pp. 3-23, 42-70
- B. Structure and Function of the Plasma Membrane (M.S.) pp. 120-171

Exam I: Friday Feb 5 in A2B70, 12:00 – 12:50 PM

II. Organelles and Membrane Trafficking – Part II (Feb 8 – Mar 2)

- A. Organelles and Membrane Trafficking (G.V.) pp. 270-318
- B. Nuclear Structure (G.V.) pp. 488-493

Exam II: Wednesday March 2 in A2B70, 12:00 – 12:50 PM

III. Cytoskeletons – Part III (Mar 4 – Apr 1)

- A. Microtubule Function, Structure, and Stability (G.V.) pp. 324-353
- B. Actin & Intermediate Filaments (G.V.) pp. 354-382

Exam III: Friday April 1st in A2B70, 12:00 – 12:50 PM

IV. Cell Signaling and Reproduction – Part IV (Apr 4 – April 29)

- A. Cell Reproduction (M.S.) pp. 572-608
- B. Cell Signaling (M.S.) pp. 617-660

Final Exam: Sunday May 1st in A2B70, 16:30-19:00