

TENTATIVE COURSE SCHEDULE AND READING ASSIGNMENTS

Week	LM Title	Reading	Laboratory	Assignments Due*
1	1.1 Introduction 1.2 Searching for life	Baloney Detection Ch 1 & 2	<i>Biomolecules Assigned</i>	1/18 (Th) DQ 1.1 1/21 (Su) DQ 1.2, Quiz 1
2	1.3 Chemistry of life 1.4 Foundations of life 1.5 Introduction to metabolism	Ch 3 <i>Only video lecture</i> § 6.1 Probability & Sci. Notation Handouts	Science Foundations	1/28 (Su) DQs, Quiz
3	1.6 Cells and chromosomes 1.7 Cell Reproduction	§§ 4.1-4.5, § 5.1 Ch 10 & 11 Graphing & Basic Statistics Handouts	Mitosis & Meiosis	1/30 (Tu) Biomolecules & Science Foundations labs 2/4 (Su) DQs, Quiz
4	First midterm exam*	LM 1.1-1.7	Professional Research (Library)	2/6 (Tu) Mitosis & Meiosis lab 2/11 (Su) Exam 1 due
5	2.1 Mendel's Principle of Segregation 2.2 Mendel's Principle of Independent Assortment	Ch 12	Mendelian Genetics	2/13 (Tu) Prof. Research & Journal Special Issue 2/18 (Su) DQs, Quiz
6	2.3 Multiple Mendelian traits 2.4 Exceptions to Mendel 2.5 Evidence for evolution	Ch 13 Ch 18	Natural Selection	2/25 (Su) DQs, Quiz
7	2.6 Principles of natural selection 2.7 Hardy-Weinberg principle	Ch 19 Ch 20 (phylogenetics)	Genetic Drift	2/27 (Tu) Mendelian Genetics and Natural Selection Labs 3/3 (Su) DQs, Quiz
8	Second midterm exam*	LM 2.1-2.7	No Lab	3/5 (Tu) Genetic Drift lab 3/10 (Su) Exam 2 due
	Spring Break	No Classes	No Lab	3/11 – 3/17
9	3.1 DNA structure & replication 3.2 Transcription	Ch 14 §§ 15.1-15.3	Gene Regulation I	3/19 (Tu) Research Presentation Outline + Questions due 3/24 (Su) DQs, Quiz
10	3.3 Translation 3.5 Gene structure & function	§§ 15.4-15.5 Ch 16	Applied Genetics (Ch 17)	3/26 (Tu) Gene Reg. I Lab + Proposal 3/31 (Su) DQs, Quiz
11	3.6 Gene regulation 3.7 Viruses	Ch 16 Ch 21 (FYI only)	Gene Regulation II	4/2 (Tu) Applied Genetics lab 4/7 (Su) DQs, Quiz
12	Third midterm exam*	LM 3.1–3.6	PCR & ELISA	4/9 (Tu) Gene Reg II draft (opt.) 4/14 (Su) Exam 3 due
13	4.1 Membrane transport 4.2 Thermodynamics 4.3 Enzymes & metabolism	Ch 5 Ch 6	Enzymes	4/16 (Tu) Gene Reg II report; PCR lab 4/21 (Su) DQs, Quiz
14	4.4 Glycolysis 4.5 Krebs cycle 4.6 Electron transport and OxPhos	Ch 7	Respiration	4/23 (Tu) Enzymes lab 4/28 (Su) DQs, Quiz
15	4.7 Light-dependent reactions 4.8 Light-independent reactions	Ch 8	Presentations	4/30 (Tu) Respiration lab 5/5 (Su) DQs, Quiz
16	Final Exam*	Cumulative	No Lab	5/7 (Tu)*

* Assignments must be completed by 11:59 PM on the date listed.

Expectations

Create your own study plan.

- I provide you with what is due and when, but you need to study in a way that works for you and plan your days to keep current.

Use your resources!

- **Canvas.** The course is laid out by Exam Unit and by week in Canvas.
- **Study Guides.** Use them to test yourself weekly.
- **Your Textbook.** Yes, web searches are easy, but their results are often wrong.
- **Free Tutors.** Meet with the course tutors. They've taken this class before and excelled at it. You will benefit from their experience!
- **Me.** Meet with me or send me a message. I'm teaching the course, so somebody thinks I know something about biology.

Don't wait to contact me.

- If you start falling behind / feel lost / feel unsure /etc. – contact me ASAP! **I can help you get back on track before it's too late.**
- If something happens- you get sick, you have to move, you are injured, or any other known or unforeseen happenstance- contact me ASAP so we can develop a plan. **It's better to plan ahead than have to triage a problem that could have been avoided.**