

Schedule and Syllabus
 (Subject to Revision as Necessary)

Lectures: Tues & Thur, 5-6:30 PM, Lecture Hall 5
Laboratory: Mon, Tues, 1-4 PM, Mon 5:30-8:30 LAB I 3040-3046
 (Students will select one of these laboratory sections)

| Week | Date | Topic | Reading ¹ | Laboratory ² |
|------|--------------|--|--------------------------|----------------------------------|
| 1 | Jan 8 10 | Organization, Review, Overview Biological Molecules 1 | Ch 1-3 Ch 4 | Microscope Use (new students) |
| 2 | Jan 15 17 | Biol. Molecules 2; Energetics 1 Biological Energetics 2 | Ch 4-5 Ch 5 | Colorimetry |
| 3 | Jan 22 24 | Enzymes and Metabolism Metabolic Pathways 1 | Ch 6 Ch 7 §1-6 | Microbiology |
| 4 | Jan 29 31 | Metabolic Pathways 2 First Exam | Ch 7 §7-14 Ch 1-7 | Enzymes |
| 5 | Feb 5 7 | Photosynthesis 1 Photosynthesis 2 | Ch 8 §1-10 Ch 8 §1-10 | Oxygen Evolu- tion in PS |
| 6 | Feb 12 14 | Biosynthesis; Regulation Protein Synthesis | Ch 8 §11-13 Ch 9 | Hill Reaction |
| 7 | Feb 19 21 | Cellular Structure Second Exam | Ch 12 Ch 7-9 | Review; Start Plant Growth |
| 8 | Feb 26 28 | Membranes and Cellular Transport Plant Nutrition; Transport 1 | Ch 11 Ch 18,19 | Probing the Cell |
| 9 | Mar 5 7 | Plant Transport 2 Plant Growth and Development 1 | Ch 19 Ch 20 | Plant Transport |
| 10 | Mar 12 14 | Plant Growth and Development 2 Third Exam | Ch 20 Ch 11,18-20 | Plant Growth (finish) |

1. Text: B. S. Guttman and J. W. Hopkins, III. Understanding Biology Harcourt Brace Jovanovich 1983. NOTE: § indicates section numbers.

Recommended: R. L. Hays, G. E. Uno, and D. R. Voth. Study Guide to Accompany Guttman and Hopkins' UNDERSTANDING BIOLOGY Harcourt Brace Jovanovich 1983.

2. All students will need a laboratory notebook with a sewn, not wire-bound, binding for recording data. Students continuing from Fall Quarter will be expected to use the same notebook they used in the Fall.