

Life Science Lab
Ages: 11+
Tuesdays 12:30-1:25pm
Tentative Syllabus

This semester, students learn about life science processes, from cells to organisms to ecosystems. Each week we explore a topic and/or lab technique through hands-on activities, including microscope use, animal and plant dissections, and cellular, natural selection and ecological processes.

Course fee: \$240. Maximum of 15 students.

Tentative Syllabus
(Exact timing of topics will be determined by student progress.)

Week 1 – Laboratory Basics

Week 2 – Macromolecules Lab

Week 3 – Microscopy and Biological Drawings

Week 4 – Osmosis and Diffusion

Week 5 – Cellular Respiration

Week 6 – Photosynthesis

Week 7 – Modeling DNA and DNA Extraction

Week 8 – Heredity and Punnett Squares

Week 9 – Natural Selection

Week 10 – Biodiversity

Week 11 – Plant Anatomy

Week 12 – Flower and Seed Dissections

Week 13 – Invertebrates

Week 14 – Vertebrates

Week 15 – Review