

THE MICROSCOPIC WORLD

Wednesdays, September 2-December 2 (no class Sept 23, Nov 25; 12 weeks)

9:30am-10:45am

Ages 8-10

Students explore the microscopic world as they learn to properly use microscopes, prepare slides, learn about plant and animal cells, and investigate common organisms and environments up close. All lab costs are included in registration fee.

Instructor: Jessica Barnes, BSc

Location: Science Center (suite 5)

Course fee: \$240 OR \$22/lab (plus \$0.99 AH fee)

10% member discount

10% sibling discount

Register for full semester or individual labs.

LAB SCHEDULE:

Exploring Nature - Wednesday, September 2

View nature and textures up close as we practice using digital microscopes.

Microscopy Basics - Wednesday, September 9

Learn about different types of microscopes and how they work, as well as practice the proper use of compound microscopes.

Slide Preparation - Wednesday, September 16

Practice making wet mount slides of plant and animal cells and learn the importance of creating realistic drawings of our observations.

Plant Cell Structure - Wednesday, September 30

Learn about the cellular structure of plant cells, identify plant organelles, and look at pollen and plant roots under a microscope.

Protozoans and Diatoms - Wednesday, October 7

Investigate protozoans and diatoms, learn where they live, observe their behaviors and study their diversity.

Animal Cell Structure - Wednesday, October 14

Study the cellular structure of animals and compare tissue samples from various organs to study the diversity of animal cells.



Science of Viruses - Wednesday, October 21

Learn the science of viruses, how they infect, how our body protects itself and then create their own virus art.

Bacterial Science - Wednesday, October 28

Explore helpful and harmful bacteria, examine what they look like, and conduct a bacterial culturing experiment.

Soil Microcopy - Wednesday, November 4

Investigate soil as a complex living ecosystem, what it is made of and explore microscopic creatures that live in the dirt.

Pond Critters - Wednesday, November 11

Study the biology and diversity of aquatic protozoans, algae and animals collected from a local pond.

Fungal Science - Wednesday, November 18

Learn about yeast, investigate mold hyphae, mushroom gills and spores under a microscope and examine see how these decomposers spread.

Crystals - Wednesday, December 2

Investigate and compare the crystalline structure of everyday salts and minerals.

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