LAB TOURS and ACTIVITIES

APPLIED SCIENCE

Build-a-bone: 3D printing in tissue engineering (ISC 0247; Indranath Mitra)
Learn how tissue engineering with novel biomaterials is making regenerative medicine possible.

Bioengineering and synthetic biology open lab (ISC 1227; Margaret Saha and students)
Isolate strawberry DNA, design edible genetic circuits, see fluorescent bacteria, use AI to solve global problems!

The Game of Life (and other mathematical recreations) (ISC 0252, Greg Conradi Smith)
Computer simulations and videos of John Conway's "Game of Life", as well as activities involving math games and math art.

Materials for a sustainable world (ISC 0223; Hannes Schniepp)
Learn how next-generation high performance materials are generated using inspiration from biological structures and materials.

The Role of Fungi in the Environment (ISC 3 atrium, Geoffrey Zahn)
Explore the art and science of fungi and the important role of fungi in the environment

BIOLOGY

Electron microscopy lab (ISC 2102; Kurt Williamson and students)
Visualizing viruses: explore methods for seeing the unseen majority that shapes our biological world.

Murphy yeast evolution lab (ISC 2081; Helen Murphy and students)
Watch amoeba predators choose their yeast prey and learn how ecological interactions can influence pathogen evolution

Marine invertebrate touch tank (ISC 2223; Jon Allen and students)

Owl research lab (ISC 3255; Matthias Leu and students)
Compare feather structures between owls and raptors.

Tadpole brains and fish development (ISC 2087; Jenny Rahn and Jen Bestman)
Use microscopes to observe neurons in tadpoles and fluorescence in living zebrafish embryos and larvae.

COMPUTER SCIENCE

AI/Computing for healthcare (ISC 3 atrium; Gang Zhou)
Learn about wearable systems to monitor seniors' movement ability by precisely measuring the time it takes to pick up objects in daily life, supporting healthy aging

CHEMISTRY

Biochemistry laboratory (ISC 1031; Izzy Taylor and students)
Antibiotic resistance, talking bacteria

Chemistry library (ISC 1022; Camille Andrews and Alex Glosson)
Metascience: how do scientists fund, conduct, and share science?
W&M library resources for the public

Hands-on chemistry experiments (ISC 1028; hosted by the W&M Chapter of the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers)

Seplab: separation science to serve society (ISC 1029; students of Katelynn Perrault Uptmor)
Finding chemicals in flavors & forensic science

Spinlab: magnets in service of materials (ISC 1026; students of Tyler Meldrum)
Using MRI to understand materials and art

Synthetic chemistry and natural products (ISC 2072; students of Jonathan Scheerer)
Making bioactive nitrogen-rich molecules from simple starting materials

DATA SCIENCE

Ask anything! (ISC 3 atrium)
Learn about mining data to solve novel, challenging problems.

PSYCHOLOGICAL SCIENCES AND NEUROSCIENCE (all in ISC 1280)

Measuring the active brain with wireless electroencephalography (Paul Kieffaber)

Measuring changes in heart rate and respiration in the lab (students of the Madelyn Labella lab)

The amazing human brain (Jennifer Stevens)

The backwards bicycle (Megan Raddatz)

Do plants learn and remember? (Peter Vishton)

Neuroscience students' club
Food for Thought: Exploring the science of taste
Mind control
How plastic is your brain?

IN THE ISC 1 ATRIUM

Snacks

Liquid nitrogen ice cream and drinks (Chem Club, PRIME mentoring program, and Chemistry department)

Scavenger Hunt and Giveaways

TIMED-ENTRY EVENTS

Greenhouse open house (ISC 3015; Patty White-Jackson and students)

Explore a rooftop teaching & research greenhouse at night; home to a diverse plant collection.

20-minute tours starting at 5:40 PM; timed-entry tickets in ISC atrium.

Chemistry on display (ISC 1127; John Bedford, Emily Hardy, and Audrey Yñigez-Gutierrez)

Stage-scale demonstrations highlighting the magic of chemistry for the young and young at heart.

Presentations at 5:45 and 7:00 pm. Tickets not required.

Sci-Fri and other science events are generously supported by the Science Event Fund at William & Mary. We invite you to consider donating to support events like Sci-Fri in the future.

Science Event Fund (6008) at William & Mary

SEPTEMBER 19, 2025

WILLIAM & MARY
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SCI-FRI

an open night of science for the community

Sci-Fri is generously supported by the College of Arts & Sciences and the School of Computing, Data Science, and Physics at William & Mary.