Spring 2024
Quarter Courses

Referred to as "Half Term" in GSAS Academic Calendar

Spring Session 1 (Half-Term QC's): January 22 – March 8
Spring Session 2 (Half-Term QC's): March 18 – April 24

PRIORT TERM ENROLLMENT DEADLINES

Crimson Carts Open	Oct. 16
Course Registration Opens	Nov. 1
Course Registration Closes	Nov. 15
Check-In Open	Jan. 5
Check-in Closes	Jan. 22
Spring 1 Begins	Jan. 22
Spring 1 Add/Drop Deadline (no fee)	Feb. 1
Spring 1 Classes End	Mar. 8
Spring 2 Begins	Mar. 18
Spring 2 Course Reg. Deadline	Mar. 22
Spring 2 Add/Drop Deadline	Mar. 28
Spring 2 Classes End	Apr. 24

GSAS ACADEMIC CALENDAR

https://registrar.fas.harvard.edu/calendars

REMINDERS

You **cannot register** for courses until you CHECK-IN (or go to: https://registrar.fas.harvard.edu/check-in)

Register for **16 credits** for full-time student status and health insurance eligibility

Register by going to https://my.harvard.edu/

For questions, contact: dms_courses@hms.harvard.edu

CELLBIO 302QC Advanced Experimental Design for Biologists
David Glass, Randall King, Catherine Dubreuil

GENETIC 305QC CRISPR genome editing techniques and applications
Manda Arbab, Richard Sherwood

IMMUN 305QC Neuroimmune interactions in health and disease
Isaac Chiu, Jun Huh

Cell Biology

CELLBIO 302QC Advanced Experimental Design for Biologists

David Glass, Randall King, Catherine Dubreuil

2 units. Enrollment limited to 25. Instructor consent required.
Spring 1 QC

W., 6:30pm – 8:30pm
Meeting dates: Jan 24 – Mar 5
Meeting Location: Tosteson Medical Education Center (TMEC), Rm. 333

This course will focus on both the theory and practice of experimental design. The emphasis is on project planning and vetting, individual experimental design, and trouble-shooting. Special focus will be placed on methods to avoid experimental bias, and potential sources of inappropriate interpretation. Also the importance of system validation is especially emphasized.

Course Note: Special consent required - preference given to Therapeutics Certificate Program students.

Course Head: David Glass, david_glass@hms.harvard.edu
Other Instructors: Randy King, randy_king@hms.harvard.edu, Catherine Dubreuil, catherine_dubreuil@hms.harvard.edu

Genetics

GENETIC 305QC CRISPR genome editing techniques and applications

Manda Arbab, Richard Sherwood

2 units. Instructor consent is required.
Spring 2 QC

T/TH, 12:30pm – 2:00pm
Meeting Dates: Mar 18 – Apr 24
Meeting Location: Tosteson Medical Education Center (TMEC), Rm. 106

CRISPR genome editing has revolutionized the study of genetics and has shown promise to treat genetic disease at its roots. This course will provide an overview on how CRISPR-based genome editing tools work, how they are used to unravel the genetics of complex disease, and how they are being deployed to ameliorate genetic diseases. The course will combine lectures from experts on the development and use of CRISPR-based tools with seminars on the practical application of and ethical issues surrounding genome editing.

Course Notes: Strong background in genetics expected. Course expected to be offered annually. The structure of this course also includes a discussion component. Any additional details about this component will be provided by the course faculty.

Course Heads: Richard Sherwood, RSHERWOOD@BWH.HARVARD.EDU; Mandana Arbab, Mandana.Arbab@childrens.harvard.edu

Immunology

IMMUN 305QC Neuroimmune interactions in health and disease

Isaac Chiu, Jun Huh

2 units.
Spring 2 QC

T., 4:00pm – 6:00pm
Meeting Dates: Jan 30 – April 2
Meeting Location: Armenise, Modell 100A

It is increasingly clear that communication between the nervous system and the immune system plays a significant role in homeostasis and disease. This course will investigate current topics in neuro-immunology such as: Gut-brain axis, neuron-glia interactions, brain border tissues, CNS development, pain, itch, neurodegeneration, allergy, autoimmunity, and host defense. Neurons and immune cells crosstalk within the central nervous system and in peripheral tissues, mediating homeostasis, barrier protection, and host defense. Dysregulation in neuroimmune communication underlies both neurological and immunological diseases. Guest lecturers will give seminars on each topic in neuroimmunology, followed by class discussion on papers in the field.

Class Note: Each class will cover a specific topic in neuro-immunology. Students should be prepared to lead discussions on pre-selected papers for each session.

Course Heads: Isaac Chiu, isaac_chiu@hms.harvard.edu, Jun Huh, jun_huh@hms.harvard.edu