

Spring 2027 Quarter Courses

Referred to as "Half Term" in GSAS Academic Calendar

Spring Session 1 (Half-Term QC's): January 25 – March 13

Spring Recess: March 13 – March 21

Spring Session 2 (Half-Term QC's): March 22 – April 28

PRIORT TERM ENROLLMENT DEADLINES

Crimson Carts Open	Oct. 21
Course Registration Opens	Nov. 4
Course Registration Closes	Nov. 18
Spring 1 Registration Closes	Nov. 18
Check-In Open	Jan. 5
Check-in Closes	Jan. 25
Open Add/Drop Opens	Jan. 19
Open Add/Drop Closes	Feb. 1
Spring 1 Begins	Jan. 25
Spring 1 Add/Drop Deadline (last day to drop a course without a W/D on trans.)	Feb. 11
Spring 1 Withdraw Deadline (no fees)	Mar. 12
Spring 1 Classes End	Mar. 12
Spring recess	Mar. 13 – Mar. 21
Spring 2 Begins	Mar. 22
Spring 2 Course Registration Closes	Mar. 26
Spring 2 Add/Drop Deadline (last day to drop a course without a W/D on trans.)	Apr. 8
Spring 2 Withdraw Deadline	Apr. 28
Spring 2 Classes End	Apr. 28

GSAS ACADEMIC CALENDAR



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

REMINDERS

IMPORTANT NOTE: QC's are **SPRING 1** and **SPRING 2** courses on the calendar – important dates may vary from FULL TERM course dates.

Prior to ADD/DROP in JANUARY: you **cannot register for or revise** existing 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: OGEPHD_courses@hms.harvard.edu

Spring 2027: Quarter Courses (QC's)



CELLBIO 304QC Introduction to Gross Anatomy for Graduate Students

Mohini Lutchman, Shriya Srinivasan

GENETIC 302QC: Teaching 101: Bringing Effective Teaching Practices to Your Classroom

Deepali Ravel

GENETIC 305QC CRISPR genome editing techniques and applications

Manda Arbab, Richard Sherwood

IMMUN 301QC Autoimmunity

Michael Wheeler

IMMUN 305QC Neuroimmune interactions in health and disease

Isaac Chiu, Jun Huh

MICROBI 360QC The Human Microbiome: Comprehensive Experimental Design and Methodologies

Alex Kostic, Sloan Devlin

NEUROBIO 327QC Neuronal Diversity

Lisa Goodrich, Gordon Fishell, Evan Macosko

Cell Biology

CELLBIO 304QC Introduction to Gross Anatomy for Graduate Students

Mohini Lutchman, Shriya Srinivasan

Spring 2 QC

2 units. Enrollment limited to 20. Instructor consent required.

M/W 1:00PM – 4:00PM

Meeting Dates: March 29 – April 28

Meeting Location: Longwood campus - instructor to provide location

Interactive gross and applied anatomy lecture sessions. Laboratory dissections and prosections will provide students with an opportunity to explore the gross structure and function of the human body. The course will provide a foundation for students to acquire practical skills in recognizing, dissecting, and differentiating key anatomical structures. Structure/function relationships will be emphasized, and some foundation will be provided for understanding structure/function changes in disease. Organ Systems and their histological and radiological aspects will be discussed with the goal of providing Biomedical Engineering insights for restoring altered structure/function. A typical day will include a 1hour interactive lecture session followed by 3 hours of laboratory dissections, prosection presentations and applied innovations workshops . The course will include some guest lectures and student presentations on topics in Applied Anatomy.

Course Heads: Mohini Lutchman, Shriya Srinivasan

Genetics

GENETIC 302QC: Teaching 101: Bringing Effective Teaching Practices to Your Classroom

Deepali Ravel

Full Term QC

2 units. Enrollment limited to 25. Instructor consent required

TH., 3:00pm – 5:00pm

Meeting Dates: Jan 28 – April 22

Meeting Location: Longwood campus - instructor to provide location

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This hands-on course will teach you how to create learning experiences that are goal-oriented, intellectually rigorous, and accessible to all of your students. Students in this course will learn, practice, and receive feedback on core skills spanning the full cycle of teaching.

You will learn how to:

1. Identify your teaching goals and your students' learning goals
2. Design individual lessons, activities, and assessments aligned with those goals, with an emphasis on using active learning techniques – from low/no-tech methods to creative, responsible uses of generative AI
3. Create inclusive, collaborative learning environments
4. Deliver and implement your instructional activities
5. Reflect on, evaluate, and revise your teaching

We will tackle practical questions in modern teaching: *They're nodding – but are they learning? How am I supposed to add in active learning when I have 200 students and my class starts in one week? If AI can get a perfect score, is this still a good assignment? What should I teach when science keeps changing?*

Through teaching demonstrations and feedback, you'll refine your skills, gain confidence, and begin developing your own teaching philosophy grounded in evidence and your own experience.

Recommended Prep: The course will draw on teaching techniques, challenges, and education literature from the life sciences, but the course is designed to be open and accessible to interested students from any discipline. This course is complementary to CELLBIO 306qc: Teaching 100, but neither course is a prerequisite for the other.

Course notes: Postdoctoral fellows and other Harvard affiliates who are not current students may be allowed to audit as space allows. Please contact the instructor to request permission to audit.

Course Head: Deepali Ravel, deepali_ravel@hms.harvard.edu

GENETIC 305QC CRISPR genome editing techniques and applications

Manda Arbab, Richard Sherwood

Full Term QC

2 units. Instructor consent is required.

T., 12:00PM – 1:30PM

Meeting Dates: January 25 – April 28

Meeting Location: Longwood campus - instructor to provide location

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

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CRISPR-based tools, student presentations, seminars on ethical issues surrounding genome editing, and workshops on practical application of CRISPR tools.

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 301QC Autoimmunity

Michael Wheeler

Full Term QC
2 units

T/TH, 9:30am – 11:00am

Meeting Dates: January 25 – April 28

Meeting Location: Longwood campus - instructor to provide location

This course will focus on basic immunological mechanisms of autoimmune diseases, with an emphasis on recent advances in the field. At each session, we will focus on a particular topic and discuss three important publications.

Course Head: Michael Wheeler, mwheeler0@bwh.harvard.edu

IMMUN 305QC Neuroimmune interactions in health and disease

Isaac Chiu, Jun Huh

Spring 1 QC
2 units

F., 1:30pm-3:30pm

Meeting Dates: Jan 29 – March 26

Schedule Varies: 1/29, 2/5, 2/12, 2/19, 2/26, 3/5, 3/12, and 3/26

Meeting Location: Longwood campus - instructor to provide location

Bidirectional communication between the nervous system and the immune system plays a significant role in homeostasis and disease. Neurons and immune cells crosstalk within the central nervous system and in

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peripheral tissues, mediating homeostasis, barrier protection, and host defense. This course will investigate current topics in neuro-immunology such as: Neuron-glia interactions, CNS development, microglia, brain border tissues, pain, neurodegeneration, cytokines and behavior, autoimmunity, 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

MICROBIOLOGY

MICROBI 360QC: The Human Microbiome: Comprehensive Experimental Design and Methodologies

Aleksandar Kostic, Sloan Devlin

Spring 1 QC

2 units

M/W., 1:00pm – 2:30pm

Meeting Dates: Jan 25 – March 10

Meeting Location: SGM 2nd Floor Conference Room (SGM-206)

This is a comprehensive introduction to the study of human microbial communities and their functions relevant to human physiology. Topics covered include metagenomics, mechanistic interactions of the microbiome with metabolism, the immune system, and the gut-brain axis. Rather than lectures, this course is primarily a critical discussion of the literature.

Course Heads: Aleksandar Kostic, aleksandar.kostic@joslin.harvard.edu, Sloan Devlin, sloan_devlin@g.harvard.edu

NEUROBIOLOGY

NEUROBIO 327QC Neuronal Diversity

Spring 2027: Quarter Courses (QC's)



Lisa Goodrich, Gordon Fishell, Evan Macosko

Spring 2

2 units. Instructor consent required

M/F, 10:00am – 12:00pm

Meeting Dates: Mar 29 – May 7

Meeting Location: Armenise 108

A hallmark of the nervous system is the tremendous morphological, molecular, physiological, and functional diversity of its cells, the neurons and glia. This course will examine how neuronal diversity is assessed experimentally and how this diversity is created during development. Lectures will provide both historical and current perspectives, which students will learn about further by reading and discussing relevant papers. Topics include single cell sequencing techniques, the role of morphogens in patterning the nervous system, intrinsic determinants and gene regulatory network analysis, the influence of activity, and functional maturation.

Course Note: Course expected to be offered every other year starting in 2024

Course Heads: Lisa Goodrich, lisa_goodrich@hms.harvard.edu, Gordon Fishell, Gordon_Fishell@hms.harvard.edu, Evan Macosko, Evan_Macosko@hms.harvard.edu