JANUARY 2024

HARVARD
DIVISION OF MEDICAL SCIENCES

J-Term:
Intensive Courses

1/8/2024 – 1/19/2024

IMPORTANT DATES		GSAS CALENDAR
J-Term Begins:	**Jan 8.**	https://registrar.fas.harvard.edu/calendars#upcoming
J-Term Drop Deadline:	**Jan 10.**	
J-Term Ends:	**Jan 19**	

REMINDERS

NOTE: several DMS courses run outside the J-term deadline. See course info for specific dates

* J-Term courses are considered Spring term courses. Credits will be counted towards your Spring term credits.

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

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

Updated 1/10/24

BCMP 301QC Translational Pharmacology: The Science of Therapeutic Discovery and Development
David E. Golan, Catherine I. Dubreuil, Mark N. Namchuk
Jan 2 - Jan 19

DRB 330QC Experimental Approaches to Stem Cell, Developmental & Regenerative Biology
Trista North
Jan 8 – Jan 19

GENETIC 390QC Bootcamp: Experimental Approaches in Genetics
Scott Kennedy
Jan 8 – Jan 19

HBTM 301QC Case Studies in Human Biology & Translational Medicine
Marc Bonaca, Thomas Michel
Jan 8 – Jan 19

VIROLOGY 301QC Advanced Topics in Virology: Viral Oncology
James DeCaprio
Jan 9 – Jan 18

Biological Chemistry & Molecular Pharmacology

BCMP 301QC Translational Pharmacology: The Science of Therapeutic Discovery and Development

David E. Golan, Catherine I. Dubreuil, Mark N. Namchuk

2 units. Enrollment limited to 56. Instructor consent required.

Meeting Dates: Jan 2 – Jan 19
Mon. – Fri., 9:00am to 12:00pm
Course Note: Schedule runs outside the J-Term semester dates. Class sessions will begin on January 2 and will run through January 19.
Location: Tosteson Medical Education Center (TMEC). Room locations vary, instructor to provide additional information.

This intensive course, held during three weeks in January (13 class days), covers principles of pharmacology and their translation into new drug discovery and development. Students participate in project groups, composed primarily of graduate students, to propose a drug development strategy from target choice through clinical trials. Most sessions include lectures, panel discussions, and/or case studies presented by Harvard faculty and faculty experts from the pharmaceutical and biotechnology industries; several sessions provide scheduled time to work on the group project with expert facilitators from industry. Evaluation is based on written and oral presentations of the group project and on class participation. Enrollment may be limited.

Course Scheduling Note: Attendance at all sessions is mandatory, and students are expected to spend most afternoons preparing for the following day's sessions and working on the group project.

Course Co-Directors: David E. Golan, david_golan@hms.harvard.edu , Catherine I. Dubreuil, catherine_dubreuil@hms.harvard.edu, and Mark N. Namchuk, Mark_Namchuk@hms.harvard.edu
Curriculum Lead: Nuru Stracey

Developmental & Regenerative Biology

DRB 330QC Experimental Approaches to Stem Cell, Developmental & Regenerative Biology

Trista North

2 units. Enrollment limited to 15. Consent of instructor required.

Meeting Dates: Jan 8 – Jan 19
Mon - Fri, 10:00am-4:00pm
Location: Information to be provided in the syllabus or through instructor.

This laboratory and lecture-based course is designed to provide a survey of model systems and technical approaches utilized in developmental, stem cell, and regenerative biology. Students will complete a series of in-person mini-rotations with laboratories of DRB faculty across the Harvard campuses and affiliated hospitals. Students engage with faculty and trainees to gain experience with a variety of models, experimental techniques, and research areas. Each day of the course will consist of an overview lecture followed by lab tours, protocol observations or activities, and interactive discussions and/or case study sessions or hands-on laboratory activities and interactive discussions, designed to facilitate student, lab member, and PI interactions. The course will culminate in a social event with the larger DRB community and short, informal student-led (five minutes, five slides) brainstorming sessions inspired by a lab session of their choosing.

Course Note: Open to first-year and second-year BBS students. Not repeatable for credit.
Class Notes: Lunch is provided each day. Student final presentations *only* on Jan 19; optional DRB Career Panel and New Year's Party on Jan 18 (*evening*).

Course Director: Trista North, trista.north@childrens.harvard.edu
Curriculum Fellow: Kayla Nygaard, kayla_nygaard@hms.harvard.edu
Other Instructors: Ya-Chieh Hsu, Jeffrey Macklis, Wolfram Goessling, Jessica Whited, Olivier Pourquie, Kara McKinley, Xi He

Genetics

GENETIC 390QC Bootcamp: Experimental Approaches in Genetics

Scott Kennedy

2 units. Enrollment limited to 8. Instructor Consent Required.

Meeting Dates: Jan 8 – Jan 19 (including Saturday, January 13)
Schedule varies depending on session, 9:00am – 4:00pm for most sessions (lunch included)
Location: Research labs across the Longwood Campus

The goals of this course are to provide learners with a hand-on survey of major topics and themes in genetic and genomic analysis and exposure to numerous experimental techniques and model organisms. Over the course of eight days, students will spend each day in a new lab and gain experience in using genetic approaches to address biologically relevant questions in a variety of experimental systems, including bacteria, yeast, nematode, fly, zebrafish, mouse, and cancer. The course will combine lectures, group-activities and hands-on laboratory exercises that emphasize experimental methods, hypothesis generation and testing, and data analysis.

Students will be graded on a pass/fail basis. To receive credit for this course, students are expected to attend and arrive prepared for every course session. Students should aim to complete daily evaluations of course activities and a final overall course evaluation.

The participating labs are as follows:

Jost Lab - Bacterial Genetics
Moazed Lab - Yeast Genetics
Blackwell Lab - Nematode Genetics
Perrimon Lab - Fruit Fly Genetics
Harris Lab - Zebrafish Genetics
Sinclair Lab - Mouse Genetics and Aging
Warman Lab - Mouse and Human genetics
Morton Lab - Human Cytogenetics
Naxerova Lab - Cancer Genetics

Course Note: Priority will be given to first-year graduate students.
Prerequisite: Genetics 201 or permission from the Course Director/Curriculum Fellow

Course Director: Scott Kennedy (scott_kennedy@hms.harvard.edu)
Curriculum Fellow: Lorenzo Gesuita (Lorenzo_Gesuita@hms.harvard.edu)

Human Biology & Translational Medicine

HBTM 301QC Case Studies in Human Biology & Translational Medicine

Marc Bonaca, Thomas Michel

2 units. Restricted to Leder students only. Enrollment limited to 20. Instructor consent required.

Meeting Dates: Jan 8 – Jan 19
Mon - Fri, 9:00am-10:30am
Location: Longwood Campus. Room locations vary, instructor to provide additional information.

Two-week course that is required of and restricted to first-year LHB students. This course will review models of therapeutic development from epidemiologic observations through clinical development with a focus on lipid lowering therapies and diabetes. Students will be engaged in interactive workshops and will attend lectures led by leading clinical researchers.

Course Notes: This is an intensive January term course. Restricted to Leder students only. Students will add this course to their cart and complete enrollment during the Spring Add/Drop period in January.
Course Instructor: Marc Bonaca, mbonaca@partners.org
Other Instructors: Thomas Michel, Thomas_Michel@hms.harvard.edu

Virology

VIROLOGY 301QC Advanced Topics in Virology: Viral Oncology

James DeCaprio

2 units. Enrollment limited to 14. Instructor consent required.

Meeting Dates: Jan 9 – Jan 18
Tue/Wed/Thurs, 4:30pm - 6:00pm
Location: Tosteson Medical Education Center (TMEC). Rm. 445

Introduction to viral oncology and critical evaluation of key papers in viral oncology. Requirements include presentations, written critiques, and class participation.

Course Notes: This is an intensive January course, limited to Virology students. Other interested students may request approval from the course instructor to enroll.
Course Instructor: James DeCaprio, james_decaprio@dfci.harvard.edu