

Fall 2025 Half Courses

Referred to as “Full Term” in the Academic Calendar

ENROLLMENT DEADLINES		ACADEMIC CALENDAR 
Returning Student Crimson Carts Open	Mar 19	https://registrar.fas.harvard.edu/calendars#upcoming
Returning Student (G2+) Reg. Opens	April 2	REMINDERS You cannot register for courses until all the holds have been lifted from your account. Information about registration holds and how to remove them can be found here: https://registrar.fas.harvard.edu/enrollment#holds .
Returning Student (G2+) Reg. Closes	April 16	
Incoming Student (G1) Reg. Opens	Aug. 12	Incoming Students: meet with your advisor or speak with your Program Admin regarding your course load so that advisors can lift the “Advising Hold” from your cart.
Incoming Student (G1) Reg. Closes	Aug. 14	Check-In opens August 18 FAS Registrar Info: https://registrar.fas.harvard.edu/check-in GSAS Info: https://gsas.harvard.edu/policy/check-and-registration-resident-students
Check-In Opens (ALL students)	Aug. 18	Register for 16 credits is required for full-time student status and health insurance eligibility by the beginning of the term, Sept. 2 . Register by going to https://my.harvard.edu/
ADD/Drop Period (ALL students)	Aug. 25 – Sept. 9	For questions, contact: dms_courses@hms.harvard.edu
Full Term	Sept. 2 – Dec. 3	



BBS 230 Analysis of Biological Literature and Experimental Design

Davie Van Vactor

BCMP 200 Principles of Molecular Biology

Joseph Loparo

BCMP 218 Molecular Medicine

Srinivas Viswanathan, Sagar Koduri

BCMP 230 Principles & Practice of Drug Development

Stan Neil Finkelstein, Peter Sorger

BMIF 201 Concepts in Genome Analysis

Shamil Sunyaev, Michael Baym, Heng Li, Cheng-Zhong Zhang

BMIF 204 Foundations of Clinical Data and its Applications

Sebastian Schneeweiss

BMIF 302 AI in Medicine Clinical Experience II

Gabriel Brat

GENETIC 201 Principles of Genetics

Fred Winston, Maxwell Heiman, Thomas Bernhardt, Jenna Galloway, Matthew Warman

HBTM 235 Principles of Human Disease: Physiology & Pathology

Connie Cepko, Jonathan Carlson

IMMUN 201 Advanced Topics in Immunology

Thorsten Mempel, Dan Dwyer

IMMUN 301 Immunology Seminar

Shiv Pillai, Peter Sage

INDP 300 Writing and Communication for the Biomedical Sciences (CROSS REGISTER)

Jason Silverstein

NOTE: PhD students to follow CROSS-REGISTRATION deadlines, 8/25 – 9/9 to enroll



MICROBI 202 Mechanisms of Bacterial Pathogenesis & Host Immune Response

Marcia Goldberg, Amy Barczak, Sophie Helaine, Jacob Lemieux, Michael Starnbach, Alex Kostic, Deepali Ravel, Lauren Essler

NEUROBIO 215A The Discipline of Neuroscience

John Assad, Mark Andermann

NEUROBIO 230 Visual Recognition: Computational & Biophysical Perspective

Gabriel Kreiman

SHBT 201 From Sound to Neuron

Sunil Puria

SHBT 261 Artificial Intelligence in Medicine

Mengyu Wang, Tobias Elze

VIROLOGY 200 Introduction to Virology

Aaron Schmidt, Benjamin Gewurz

VIROLOGY 202 Proposal Writing

Silvi Rouskin



Biological & Biomedical Sciences

BBS 230 Analysis of Biological Literature and Experimental Design

David Van Vactor

4 units. Enrollment limited 70. Instructor consent required.

T/TH, 10:00am – 12:00pm

Meeting Dates: September 2 – December 2

Meeting Locations: Longwood campus - instructor to provide location

BBS 230 is a research skills core course required for all BBS first-year graduate students that is designed to build (a) familiarity with the scientific peer review process, (b) a deeper understanding of rigorous experimental design, data presentation, data analysis and data interpretation in the literature, and (c) increasing competency in applying effective experimental design principles to future project planning. Our training in literature analysis is comprised of two related components: (1) eight weekly seminar-style, small group paper discussions with pairs of Harvard faculty instructors that will focus on understanding, dissecting, and evaluating a dozen seminal research papers; and (2) parallel weekly sections led by teaching fellows that focus on the process of peer review and revision of two different scientific manuscripts. In separate sessions, you will engage groups of professional journal editors or faculty members in panel discussions to explore the process of peer review and publishing from different perspectives. Then, toward the end of the course, you will plan and outline your own study design for a current or future project (e.g. current or future rotation), thus applying many of the elements that you have considered in the various section discussions. Finally, you will hold one-on-one conferences to with your teaching fellows to discuss reflections on your goals and strategy for the year ahead.

Course Notes: BBS 230 is open for enrollment only to BBS and BIG students. This course is required for first-year BBS students.

Course Heads: David Van Vactor, davie_vanvactor@hms.harvard.edu

Additional Instructors: TBD



Biological Chemistry & Molecular Pharmacology

BCMP 200 Principles of Molecular Biology

Joseph Loparo

4 units. Enrollment limited to 95. Instructor consent required.

M/W/F, 11:00am – 12:00pm

Meeting Dates: September 3 – December 3

Meeting Location: Longwood campus - instructor to provide location

Principles of Molecular Biology is a course organized around the Central Dogma of Biology with presentations covering fundamental aspects of DNA and RNA structure, their function, and their interactions with proteins. The course opens with a discussion of the physical and chemical properties that drive the interactions of proteins with nucleic acids. This is used as a basis for understanding the material presented in the subsequent six modules, which cover DNA replication, DNA repair, gene regulation, transcription, RNA processing, and translation. Throughout this course, an emphasis will be placed on how the structure of small molecular machines (proteins) define their function in the processes and pathways that are introduced.

Recommended Prep: Intended primarily for graduate students familiar with basic molecular biology or with strong biology/chemistry background.

Course Note: Enrollment for G1 and G2 students in graduate programs that require this course, such as BBS and BIG, is prioritized. Petitions will be reviewed, prioritized and approved primarily during August enrollment.

Course Head: Joseph Loparo, joseph_loparo@hms.harvard.edu

Other Instructors: Johannes Walter, Karen Adelman, Stirling Churchman, Frank Slack, Alan Brown



BCMP 218 Molecular Medicine

Srinivas Viswanathan, Sagar Koduri

4 units. Enrollment limited to 28. Instructor consent required.

T, 1:00pm - 3:00pm

Meeting Dates: September 2 – December 2

Meeting Location: Longwood campus - instructor to provide location

A seminar on various human diseases and their underlying genetic or biochemical bases. Primary scientific papers discussed. Lectures by faculty and seminars conducted by students, faculty supervision.

Course Notes: Faculty mentors will guide student-led discussions of the papers.

Prerequisites: College-level mastery of principles of cellular and molecular biology and genetics.

Course Head: Srinivas Viswanathan, Srinivas.viswanathan@dfci.harvard.edu, Sagar Koduri, VKODURI1@mgh.harvard.edu

BCMP 230 Principles & Practice of Drug Development

Stan Neil Finkelstein, Peter Sorger

4 units

W, 3:00pm - 6:00pm

Meeting Dates: September 3 – December 10

Meeting Location: MIT Building 4, Room 237

Introduction to and critical assessment of the concepts, technologies and practical challenges of developing new medicines and bringing them to market. Pharmacology fundamentals, preclinical drug discovery, clinical trials, manufacturing and regulatory issues, as well as financing and marketing are discussed for small molecule, biologic and cellular therapies.

Course Notes: Suitable for individuals with a wide variety of backgrounds and interests from biology to engineering, business and medicine (undergraduate, graduates in MBA, MD and PhD programs). Taught by MIT and HMS faculty and by industry experts. Emphasizes a high level of student engagement via weekly news updates and projects involving collaboration across interdisciplinary teams.



Prerequisites: No particular course is required. Knowledge of basic biology, biomedicine or bioengineering, and familiarity with basic economic principles will be helpful but not necessary for the course.

Website: <https://www.principlespracticedrugdevelopment.org/>

Course Heads: Stan Finkelstein, finkelst@hcp.med.harvard.edu, Peter Sorger, peter_sorger@hms.harvard.edu

Other Instructors: Han Xu (HMS), GK Raju (MIT)

Biomedical Informatics

BMIF 201 Concepts in Genome Analysis

Shamil Sunyaev, Heng Li, Cheng-Zhong Zhang, Luke O'Connor

4 units. Enrollment limited to 30. Instructor consent required.

M/W, 2:30pm - 4:00pm

M, 4:00pm – 5:00pm (discussion component)

Meeting Dates: September 3 – December 3

Meeting Location: Longwood campus - instructor to provide location

This course focuses on quantitative aspects of genetics and genomics, including computational and statistical methods of genomic analysis. We will introduce basic concepts and discuss recent progress in population and evolutionary genetics and cover principles of statistical genetics of Mendelian and complex traits. We will then introduce current genomic technologies and key algorithms in computational biology and bioinformatics. We will discuss applications of these algorithms to genome annotation and analysis of epigenomics, cancer genomics and metagenomics data. Proficiency in programming and basic knowledge of genetics and statistics will be assumed.

Course Note: This course includes a discussion component on Mondays, from 4:00pm-5:00pm. Any additional details about this component will be provided by the course faculty.

Course Head: Shamil Sunyaev, ssunyaev@hms.harvard.edu

Other Instructors: Heng Li, Cheng-Zhong Zhang, Luke O'Connor



BMIF 204 Foundations of Clinical Data and its Applications

Sebastian Schneeweiss

4 units. Instructor consent required.

W, 9:00am – 12:00pm (lecture)

F, 10:00am – 11:00am (labs)

Meeting Dates: September 3 – December 5

Meeting Location: Longwood – instructor to provide location

Data generated by the health system (“clinical data”) as part of patient care is diverse and complex to interpret, mainly when used to create predictive algorithms, configure precise study cohorts, identify co-morbidities, evaluate outcomes, etc. Furthermore, since each data type may exclude information necessary to a given project goal, it is essential that users understand the nature, limitations, and opportunities of each data source before selecting one and using it for scientific inquiry. This introduction to clinical data types will cover those sources most typically used in human health research, such as electronic health records, national databases, insurer data, and commercially available consolidated databases. It will provide an essential foundation for students evaluating publications and research deriving from these sources.

Course Note: Enrollment limited to PhD students in the Biomedical Informatics – AI in Medicine track

Course Head: Sebastian Schneeweiss, sschneew@hsph.harvard.edu

BMIF 302 AI in Medicine Clinical Experience II

Gabriel Brat

4 units. Instructor consent required.

F, 2:00pm – 5:00pm

Meeting Dates: September 5 – November 21

Meeting Location: Longwood – instructor to provide location

AI in Medicine Clinical Experience II (ACE II) is a graduate-level seminar course that builds on the foundation established in BMIF 301- ACE I. This course deepens students' understanding of



healthcare data by expanding their clinical shadowing to a specialty of their choice and exposing them to the broader hospital data ecosystem. Students will shadow physicians in specialized fields and will engage with non-clinical professionals—including nurses, medical coders, billers, IT specialists, and data managers—to explore how hospital data is generated, stored, processed, and utilized in decision-making and AI applications. By the end of the course, students will gain a holistic understanding of healthcare data pipelines, from bedside patient interactions to backend data processing systems, critical for AI research in medicine.

Recommended Preparation: Successful completion of BMIF 301 is recommended before taking this course. Exceptions will be made based on instructor consent.

Course Note: Enrollment limited to PhD students in the Biomedical Informatics – AI in Medicine track

Course Head: Gabriel Brat, Gabriel_Brat@hms.harvard.edu

Genetics

GENETIC 201 Principles of Genetics

Fred Winston, Maxwell Heiman, Thomas Bernhardt, Jenna Galloway, Matthew Warman

4 units

M/W/F, 9:10am – 10:40am

Meeting Dates: September 3 – December 3 (Final Date December 10)

Meeting Location: Longwood campus - instructor to provide location

An in-depth survey of genetics that covers basic principles and modern approaches. We will draw on examples from various systems, including bacteria, yeast, *Drosophila*, *C. elegans*, zebrafish, mouse, and human.

Course Notes: Intended for first-year graduate students.

Course Heads: Fred Winston, winston@genetics.med.harvard.edu, Max Heiman, heiman@genetics.med.harvard.edu

Other Instructors: Thomas Bernhardt, Jenna Galloway, Matthew Warman



Human Biology & Translational Medicine

HBTM 235 Principles of Human Disease: Physiology & Pathology

Connie Cepko, Jonathan Carlson

4 units

M/W/F, 9:00am – 10:30am

Breakdown (subject to change): M/F – lectures, W – tutorials

Meeting Dates: September 3 – December 3

Meeting Location:

Lectures: NRB 350

Tutorials: Longwood campus - instructor to provide location

This course covers the normal physiology and pathophysiology of selected organs, through lectures, readings, tutorials based on clinical cases, and patient presentations. Human biology is emphasized, with some examples also drawn from model organisms. Using a combination of lectures and case-based small group tutorials, the course will survey some key areas of human physiology: cardiovascular, pulmonary, renal, and gastrointestinal systems, as well as neurobiology, endocrinology, cancer and immunology. Molecular and cellular approaches to drug discovery and therapeutics will be presented where appropriate, with a particular emphasis on the current state-of-the-art in our scientific and clinical understanding.

Course Note: Course enrollment is open to graduate students from any program as well as undergraduates.

Prerequisites: Knowledge of introductory biochemistry, molecular biology, and cell biology required (MCB52 and MCB54 or equivalent for undergraduates).

Course Head: Connie Cepko, cepko@genetics.med.harvard.edu, Jonathan Carlson, jccarlson@partners.org

Immunology

IMMUN 201 Advanced Topics in Immunology

Thorsten Mempel, Dan Dwyer

4 units. Enrollment limited to 40. Instructor consent required



T/Th, 1:30pm – 4:30pm EST

Meeting Dates: September 2 – December 2

Meeting Location: Longwood campus - instructor to provide location

This course provides an intensive and in-depth examination of a selection of fundamental concepts in immunology. It takes advantage of the unique expertise of members of our Immunology faculty to illustrate how these concepts have been established and continue to be developed based on seminal work in the field including contributions from their own laboratories.

Course Notes: Intended for students who have had prior exposure to immunology on the undergraduate level. In the absence of such exposure, students must obtain the permission of the Course Director.

Prerequisites: A background in genetics and biochemistry is strongly recommended.

Course Heads: Thorsten Mempel, tmempel@mgh.harvard.edu, Dan Dwyer, dfdwyer@bwh.harvard.edu

Other Instructors: TBD

IMMUN 301 Immunology Seminar

Shiv Pillai, Peter Sage

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

W.

Speaker Meet and Greet: 12:00pm - 1:00pm

Discussion Class: 2:00pm - 3:30pm

301 Seminars: 4:00pm – 5:15pm

Reception: 5:15pm – 6:15pm

Meeting Dates: September 3 – December 3

Meeting Location:

Meet and Greet/Discussion Class: Longwood campus - instructor to provide location

301 Seminars: Longwood campus - instructor to provide location

Gives students exposure to research topics in immunology. Students prepare for the weekly



seminar through readings, discussions, and preparing brief write-ups. These discussions are facilitated by members of the Committee on Immunology.

Course Note: Required for, and limited to, first-year Immunology graduate students. All others will be evaluated for enrollment on a case by case basis. Attendance is required at both the speaker Meet and Greet and the seminars. Meet and Greet timing can be found in class notes in my.harvard.

Course Heads: Shiv Pillai, pillai@helix.mgh.harvard.edu, Peter Sage, peter_sage@hms.harvard.edu

CROSS REGISTRATION COURSE

INDP 300 Writing and Communication for the Biomedical Sciences (CROSS REG.)
Jason Silverstein

NOTE: PhD students to follow CROSS-REGISTRATION deadlines, 8/25 – 9/9 to enroll

2 units

Meeting Dates: TBD

Section 1: Online - Zoom

Days/Times: TH., 3:00pm – 5:00pm

Meeting Link: Zoom link to be provided by course instructor

Section 2: In-person

Days/Times: F., 12:00pm – 1:00pm

Meeting Location: Longwood campus - instructor to provide location

Course Notes: There are two sections of this course. Students are only required to enroll in one section. PhD students must enroll in the in-person section.

This course prepares students for the demands of writing and communicating in the medical sciences. The class has two linked agendas: students will learn how to turn raw research into polished academic argument, and students will practice specific lessons through exercises that allow them to think about their own developing scholarship. The course is divided into three



units. In the first unit we examine the main components of academic argument (structure, evidence, and analysis). In this section, students will learn how to write with sources. In the second unit, we focus on framing insights, entering the scholarly conversation, and crafting and responding to sophisticated critiques. In this section, students will learn how to frame both the human health and scholarly significance of their work. In the final unit, students will learn how to communicate their work in various forms, including writing an abstract, grant, blog, before turning to presentation skills, such as crafting an elevator pitch and how to present at a conference or thesis defense. Students will have frequent opportunities for feedback on issues of grammar and syntax. By the end of the course, students will have learned how to communicate their research in a variety of ways to academic and professional audiences.

Course Heads: Jason Silverstein, jason_silverstein@hms.harvard.edu

Microbiology & Immunobiology

MICROBI 202 Mechanisms of Bacterial Pathogenesis & Host Immune Response

Marcia Goldberg, Amy Barczak, Sophie Helaine, Jacob Lemieux, Michael Starnbach, Alex Kostic, Deepali Ravel, Lauren Essler

4 units. Enrollment limited to 25. Instructor consent required.

T/ Th, 3:00pm – 5:00pm

Meeting Dates: September 2 – December 2

Meeting Location: Longwood campus - instructor to provide location

This course focuses on molecular mechanisms of bacterial pathogenesis and the host response to infection. The class consists of lectures and group discussions emphasizing themes of pathogenesis, methods, results, and interpretations of classic and contemporary literature.

Subjects including bacterial secretion systems, mechanisms of entry into host cells, biofilm formation, and motility are viewed primarily from the pathogen's perspective, whereas topics including inflammasome activation, TLR signaling, and adaptive immune responses provide a host-centric view. Additional sessions are spent examining current methods of antibiotic discovery and vaccine development.

The course also introduces students to the wide diversity of pathogenic bacteria. Organisms discussed include pathogenic *E. coli*, *Shigella* species, *Vibrio cholerae*, *Listeria monocytogenes*,



Chlamydia trachomatis, *Pseudomonas aeruginosa* and *Staphylococcus aureus*, as well as a discussion of the challenges presented by currently unculturable species. Where relevant, connections will also be made with pathogenesis and immune responses to viruses, parasites, and fungi.

Course Notes: Designed to complement Microbiology 201; however, students who have not taken Microbiology 201 previously are welcome. Designed for graduate students in their first year or beyond, however undergraduates with specific interest in the field may also enroll.

Course Head: Marcia Goldberg, marcia.goldberg@mgh.harvard.edu

Curriculum Fellow: Lauren Essler, lauren_essler@hms.harvard.edu

Other Instructors: Amy Barczak, Sophie Helaine, Jacob Lemieux, Michael Starnbach, Alex Kostic, Deepali Ravel

Neurobiology

NEUROBIO 215A The Discipline of Neuroscience

John Assad, Mark Andermann

4 units. Enrollment limited to 30. Instructor consent required.

T/Th, 9:00am – 12:00pm

Meeting Dates: September 2 – November 26

Meeting Location: WAB 236

This course will endow students with the broad conceptual fluency in the discipline of neuroscience required to relate genes to circuit function, metabolism to neurological disease, and cell biology to neural computations. Through a combination of asynchronous instructional materials and synchronous in-class activities, students will learn to design, quantitatively analyze, and interpret experiments that address a variety of questions spanning molecular to systems neuroscience. During the first semester, students will think critically about the fundamental units of the nervous system within the context of cellular function, electrical conduction, and chemical signaling. The second half of the course builds upon this foundation to focus on broadly defined “networks of neural function”; as related to coordinated neural activity, the concerted execution of genetic programs, and anatomically defined structural networks. The course culminates with students writing an experimental proposal. Part one of a two-part series. The curriculum for this course builds throughout the academic year. Students are strongly encouraged to enroll in both the fall and spring course within the same academic year.



Course Notes: Please note that Program in Neuroscience (PiN) students must take both semesters to fulfill the requirement. Non-PiN students may enroll in just the fall semester with instructor approval. Students must complete the fall semester (NB215A) to enroll in the spring semester (NB215B).

Course Head: John Assad, john_assad@hms.harvard.edu; Mark Andermann, manderma@bidmc.harvard.edu

Other Instructors: Gary Yellen, Gary_Yellen@hms.harvard.edu; Bruce Bean, Bruce_Bean@hms.harvard.edu; Pascal Kaeser, Pascal_Kaeser@hms.harvard.edu; Wade Regehr, Wade_Regehr@hms.harvard.edu; Rachel Wilson, rachel_wilson@hms.harvard.edu, Michael Do, mdo@fas.harvard.edu, Christopher Harvey, christopher_harvey@hms.harvard.edu

NEUROBIO 230 Visual Recognition: Computational & Biophysical Perspective

Gabriel Kreiman

4 units

M, 3:00pm – 5:45pm

Meeting Dates: September 2 – December 3

Meeting Location: Cambridge campus – Northwest Building, B108

Examines how neuronal circuits represent information and how those circuits are implemented in artificial intelligence algorithms. Topics: architecture of visual cortex, neurophysiology, visual consciousness, computational neuroscience, models of pattern recognition and computer vision.

Course Notes: Neuro 130 cannot be taken if Neurobio 230 has been taken. Neuro 130 cannot be taken concurrently with Neurobio 230.

Course Website: [Neurobiology 230, Visual Recognition, https://klab.tch.harvard.edu/academia/classes/hms_neuro300_vision/hms_neuro300_vision.html](https://klab.tch.harvard.edu/academia/classes/hms_neuro300_vision/hms_neuro300_vision.html)

Prerequisites: Prerequisite: ((LifeSci 1A OR LPS A) AND (LifeSci 1B)) AND may not be taken at the same time with NEURO 230

Recommended Prep: Math (Maa/Mab, Math 1A,1B, Math 19 a or equivalent). Physical Sciences 1. MCB 80.

Course Head: Gabriel Kreiman, gabriel.kreiman@childrens.harvard.edu

Speech & Hearing Bioscience and Technology



SHBT 201 From Sound to Neuron

Sunil Puria

4 units

Lectures: T/ Th, 3:00pm – 5:00pm, Cambridge campus – instructor to provide location

Recitation: M, 3:00pm – 5:00pm, Cambridge campus – instructor to provide location

Meeting Dates: September 2 – December 3

(Note: if applicable, breakout rooms vary by date - instructor to provide details)

Acoustics, anatomy, normal biology, biophysics, physiology and morphology of the middle ear and inner ear, its sensory innervation and efferent control systems, and the mechanisms underlying sensorineural hearing loss and medical devices used to treat pathology. Material is presented through lectures, laboratory exercises, discussions of the primary literature, and textbooks.

Course Notes: Lecture notes will be available online.

Course Heads: Sunil Puria, sunil_puria@meei.harvard.edu

SHBT 261 Artificial Intelligence in Medicine

Mengyu Wang, Tobias Elze

4 units.

T., 1:00pm – 3:30pm

Meeting Dates: September 2 – December 3

Meeting Location: Longwood campus – instructor to provide location

This course, offered at Schepens Eye Research Institute, will serve as an introduction to artificial intelligence (AI) with an emphasis on its applications in medicine. The course will begin with classical linear and non-linear regression models, then move to classical machine learning models, including matrix decomposition methods, random forests, support vector machines, and traditional neural networks based on multilayer perceptrons. Finally, it will explore the latest deep neural networks, such as convolutional neural networks, transformers, pretrained foundation models, diffusion models, and large language models. The class will include homework in the form of three mini-projects and one final project, primarily using medical imaging data along with other medical tests and diagnostic information. The last three sessions



will be dedicated to special topics, providing an overview of recent developments in common medical AI modeling areas, including segmentation, few-shot learning, anomaly detection, and AI for science.

Course Notes: Students should be familiar with at least one programming language such as MATLAB, R or Python. 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: Mengyu Wang, Mengyu.Wang@meei.harvard.edu, Tobias Elze, Tobias_Elze@MEEI.HARVARD.EDU

Other Instructors: Mohammad Eslami; Yan Luo; Minghan Li; Sung-Hoon Yoon; Ziyang Wang; Kaichen Zhou; Saber Kazeminasab; Hannah Rana; Milen Raytchev; Mousa Moradi

Virology

VIROLOGY 200 Introduction to Virology

Aaron Schmidt, Benjamin Gewurz

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

M/W, 1:30pm - 3:45pm

Meeting Dates: September 3 – December 8

Meeting Location: Longwood campus - instructor to provide location

Introduction to virology. The lecture component reviews the basic principles of virology and introduces the major groups of human viruses. Weekly discussion groups critically analyze selected papers from the literature.

Course Notes: There will be mid-term and final projects consisting of proposals based on laboratory rotations.

Course Website: <http://www.courses.fas.harvard.edu/6075>

Prerequisites: Current Virology PhD student, or upon special consent

Course Heads: Aaron Schmidt, aaron_schmidt@hms.harvard.edu; Benjamin Gewurz, bgewurz@partners.org

VIROLOGY 202 Proposal Writing

Silvi Rouskin



4 units. Enrollment limited to 12. Instructor consent required.

T, 1:30pm – 3:30pm

Meeting Dates and Times: September 2 – October 28

Meeting Location: Longwood campus - instructor to provide location

Students will write, present, and evaluate research proposals in the areas of virus replication, viral pathogenesis and treatment and prevention of viral infections.

Prerequisites: General background in biochemistry and virology.

Course Head: Silvi Rouskin, silvi@hms.harvard.edu

Additional Instructors: Mike Farzan, Sizun Jiang, Alan Engelman, Shira Weingarten-Gabbay

