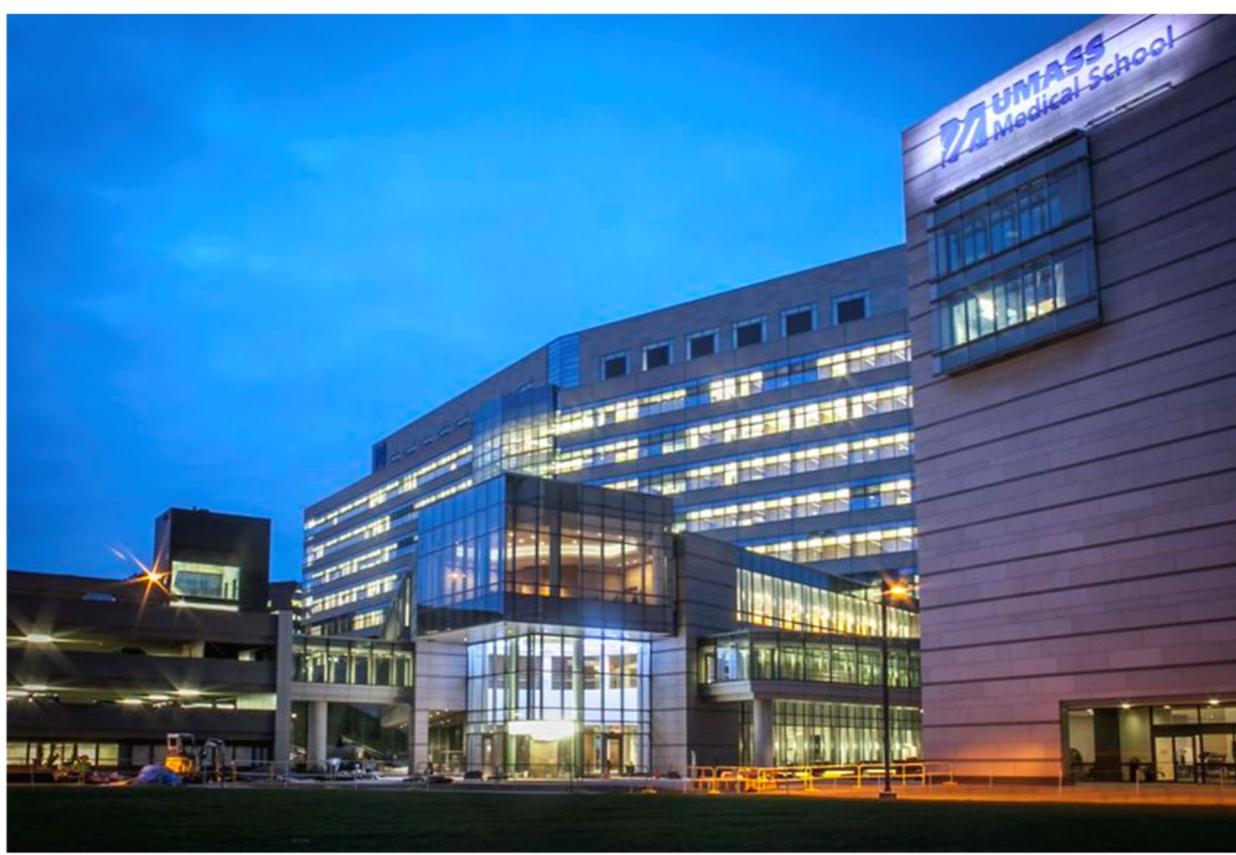




# Graduate School of Biomedical Sciences



## Course Catalog & Registration Spring 2020

Registration Open: November 18, 2019 – December 9, 2019

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## GSBS SPRING 2020 REGISTRATION INSTRUCTIONS

Registration Period: 11/18/2019-12/09/2019

Final Date for add/drop: 2/13/2020

### PeopleSoft Campus Solutions (PSCS) On-line Registration

#### To begin online Registration

Sign into PeopleSoft Campus Solutions (PSCS) with your UMMS credentials

[https://sm-prd.wsa.umasscs.net/psp/wsapr92/EMPLOYEE/SA/c/NUI\\_FRAMEWORK.PT\\_LANDINGPAGE.GBL](https://sm-prd.wsa.umasscs.net/psp/wsapr92/EMPLOYEE/SA/c/NUI_FRAMEWORK.PT_LANDINGPAGE.GBL)

#### PSCS FAQ's including login and password issues

[https://umassmed.service-now.com/sp?id=kb\\_article&sys\\_id=7f14024d4ffb9f0475ed97dd0210c7b5](https://umassmed.service-now.com/sp?id=kb_article&sys_id=7f14024d4ffb9f0475ed97dd0210c7b5)

### Class Numbers

Please note: course numbers (example: BBS601) are not the same as class numbers (example: 1257). **Class numbers are unique identifiers that change every semester.** The Class Number is included with the course information, except for research or tracking courses (where there are multiple faculty sections)

You will need to use the Class Numbers Lists to register for any Research or Tracking Course. Class number lists are within this registration guide; check the table of contents for the page numbers

### Class Meeting Information

Students are strongly advised to obtain class meeting information directly from the Course Director prior to registering for the course, particularly if there is a concern about conflicts with other course offerings. Frequently faculty have not finalized this information by the date that Registration opens. If the information about class start/end dates, meeting times and room numbers has been submitted to the Graduate School office, it will be in the Course Catalog section of this document.

## ASSISTANCE

### Assistance with Administrative Questions

#### Basic & Biomedical Sciences Students Contact:

First Year: Annette Stratton, S1-824, 508-856-1938, [annette.stratton@umassmed.edu](mailto:annette.stratton@umassmed.edu)

Second Year and Beyond: Mindy Donovan, S1-824, 508-856-5938, [mindy.donovan@umassmed.edu](mailto:mindy.donovan@umassmed.edu)

#### Clinical & Translational Sciences and MD/PhD Students Contact:

Anne Michelson, S1-824, 508-856-8025, [anne.michelson@umassmed.edu](mailto:anne.michelson@umassmed.edu)

### Assistance with Advanced Topics

If you have questions regarding program requirements or the selection of advanced topic or elective courses, you should meet with your Graduate Program Director or Thesis Advisor for clarification.

#### Graduate Program Directors

Program	Name	Location	Telephone
Biochemistry and Molecular Pharmacology	Kobertz, William	LRB-804	508-856-8861
Bioinformatics & Computational Biology	Weng, Zhiping	AS5-1069	508-856-8866
Cancer Biology	Kim, Dohoon	LRB 4-422	508-856-4428
Cancer Biology	Mercurio, Arthur	LRB-408	508-856-8676
Clinical & Population Health Research	Lapane, Kate	AS6-1083	508-856-8999
Health Sciences Preparatory Program	Knight, Kendall	S1-824	508-856-5628
Immunology & Microbiology (Immunology Advisor)	Silverman, Neal	LRB-326	508-856-5826
Immunology & Microbiology (Virology Advisor)	Morrison, Trudy	S5-250	508-856-6592
Immunology & Microbiology (Bacterial Pathogenesis Advisor)	Beth McCormick	AS8-2049	508-856-6048
Interdisciplinary Graduate Program	Peterson, Craig	Biotech2, Suite 210	508-856-5858
Interdisciplinary Graduate Program	Tissenbaum, Heidi	LRB-621	508-856-5840
MD/PhD	Corvera, Silvia	Biotech 2, suite 107	508-856-6898
MD/PhD	Szabo, Gyongyi	LRB-208	508-856-8025
Millennium MD/PhD Program	Kornfeld, Hardy	LRB-303	508-856-8025
MS in Clinical Investigation	Goldberg, Robert	AS6-2071	508-856-8025
Neuroscience	Weaver, David	LRB-723	508-856-2495
Pathway to Graduate Study	Lewis, Brian	LRB-521	508-856-4325
Quantitative and Computational Biosciences and Bioengineering	Grunwald, David	AS4-1043	774-455-3632
Translational Science	Mandrekar, Pranoti	LRB-221	508-856-5391
Translational Science	Royer, William	LRB-921	508-856-6912

## COURSES FOR REGISTRATION

### Basic & Biomedical Science Courses

#### BBS 603 - Responsible Conduct of Research - Post Doctoral Scholars

Class #: 2709

This is lecture and discussion based class covering the 9 specific topics in Responsible Conduct of Research as mandated by NIH. It consists of four, two-hour sessions plus an additional two-hour session to introduce Individual Development Plans.

**Prerequisites:** None

**Credits:** 1 | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** Basic & Biomedical Sciences

**Course Director:** Imbalzano, Anthony

**Course Director email:** Anthony.Imbalzano@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:** Parker, Irina

**Course Administrator email:** Irina.Parker@umassmed.edu

**Class Meeting Information:** Classes will be held from 9:30a-11:30a on April 1, 3, 9, 13 and 17

**Class Meeting Location:** S2-351/352

**Required Textbooks:** Macrina, Francis L. Scientific Integrity: Text and Cases in Responsible Conduct of Research. ASM, 2005. ISBN: 1-55581-318-6. TEXTBOOK IS PROVIDED

**Recommended Textbooks:**

**Additional notes:**

#### BBS 718 - Regulatory RNA Biology

Class #: 3758

This advanced topics course will cover current research in the general area of RNA biology. Topics envisioned may include RNA synthesis; modification and processing pathways; RNA structure; RNA transport and subcellular localization; translational regulation; RNAi and microRNAs; RNA decay; RNA aptamers; RNA catalysts; RNA and early evolution; and RNA as a drug and/or drug target. The format of this course will center around group discussion of papers from the primary literature. Grading will be based on student attendance, performance in presentations and participation in group discussions.

**Prerequisites:** BBS 614 or course equivalent

**Credits:** 3 | **Grading:** Letter

**Associated Program(s):** Biochemistry & Molecular Pharmacology

**Course Director:** Ryder, Sean

**Course Director email:** sean.ryder@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:** Wednesdays, 2p-5p

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## BBS 719 - Cellular Biochemistry

Class #: 2749

Cellular Biochemistry takes an inside-out approach to teaching the molecular biological underpinnings of DNA replication, gene transcription, translation, metabolism, secretion and cell signaling.

**Prerequisites:**

**Credits:** 3 | **Grading:** Letter

**Associated Program(s):** Biochemistry & Molecular Pharmacology

**Course Director:** Thompson, Paul

**Course Director email:** paul.thompson@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:** Dion, Keiko

**Course Administrator email:** Keiko.Dion@umassmed.edu

**Class Meeting Information:** Tuesdays & Thursdays 1p-2:30p

**Class Meeting Location:** LRB 816

**Required Textbooks:** None

**Recommended Textbooks:**

**Additional notes:**

## BBS 725 - Cancer Biology

Class #: 3091

This course will provide students with a rigorous and comprehensive understanding of the mechanisms that underlie the genesis and progression of human cancers. It will build on the basic science knowledge acquired in the Foundations Course and establish an appreciation of cancer as a disease. The salient topics to be covered include cancer stem cells; oncogenes and tumor suppressor genes; tumor-host interactions, invasion and metastasis, cancer metabolism and anti-tumor immunity. A major theme of the course will be to integrate the biology of cancer with the clinical behavior of tumors.

**Prerequisites:** BBS720, Histology and Tumor Pathology is recommended but not required.

**Credits:** 3 | **Grading:** Letter

**Associated Program(s):** Cancer Biology Interdisciplinary

**Course Director:** Mercurio, Arthur

**Course Director email:** Arthur.Mercurio@UMassmed.edu

**Co-Course Director:** Kelliher, Michelle

**Co-Course Director email:** michelle.kelliher@umassmed.edu

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:** Tuesdays & Thursdays 9a-11a

**Class Meeting Location:** LRB 4th floor conference room

**Required Textbooks:** Weinberg, Robert A. *The Biology of Cancer*, 2nd Edition. Garland Science, Taylor & Francis Group, 2014. ISBN: 978-0815342205

**Recommended Textbooks:**

**Additional notes:**

## BBS 755 - Infection and Immune Response

Class #: 1483

Infectious disease is among the strongest agents of natural selection, and adaptations constituting the armament of pathogens and the defense of the host involve many of the most fascinating mechanisms in biology. This course presents a modern view of the fundamental biology of bacterial and viral disease in the context of molecular mechanisms of host defense. A detailed knowledge of cellular and molecular components of the immune system will be integrated with current understanding of microbial virulence strategies, to provide a working understanding of biological mechanisms important in health and disease. The course is organized as three integrated sections focusing on the fields of immunology, bacterial pathogenesis, and virology. Students will obtain a background for advanced course work in each of these disciplines. We will focus on three themes; (1) basic properties of microbes and the innate and adaptive immune defenses that have evolved to respond to them, (2) the interplay—in both dynamic and evolutionary sense—between host defenses and microbial virulence, and (3) the mechanisms of pathogenesis during infection. Comparative clinical and epidemiological pictures of selected diseases will be presented, and will serve as a framework for development of key molecular, cellular, and physiological concepts.

**Prerequisites:** BBS 614 or course equivalent

**Credits:** 4 | **Grading:** Letter

**Associated Program(s):** Immunology & Microbiology

**Course Director:** Kowalik, Timothy

**Co-Course Director:**

**Course Administrator:** Parker, Amy

**Course Director email:** Timothy.Kowalik@umassmed.edu

**Co-Course Director email:**

**Course Administrator email:** Amy.Parker@umassmed.edu

**Class Meeting Information:** Tuesdays, Thursdays and Fridays 10:30a-12p

**Class Meeting Location:** Tues (AS6-2072), Thurs (AS8-2072), Fri (AS9-2072)

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## BBS 755a - Introduction to Immunology

Class #: 2103

This is the immunology component of BBS755 Infection and Immune Response

**Prerequisites:** BBS 614 or course equivalent

**Credits:** 2 | **Grading:** Letter

**Associated Program(s):** Immunology & Microbiology

**Course Director:** Kowalik, Timothy

**Co-Course Director:**

**Course Administrator:** Parker, Amy

**Course Director email:** Timothy.Kowalik@umassmed.edu

**Co-Course Director email:**

**Course Administrator email:** Amy.Parker@umassmed.edu

**Class Meeting Information:** 2/3/2020 - 3/24/2020, Tuesdays, Thursdays and Fridays 10:30a-12p

**Class Meeting Location:** Tues (AS6-2072), Thurs (AS8-2072), Fri (AS9-2072)

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## BBS 755b - Introduction to Bacteriology

Class #: 2105

This is the bacteriology component of BBS755 Infection and Immune Response

**Prerequisites:** BBS 614 or course equivalent

**Credits:** 1 | **Grading:** Letter

**Associated Program(s):** Immunology & Microbiology

**Course Director:** Kowalik, Timothy

**Co-Course Director:**

**Course Administrator:** Parker, Amy

**Course Director email:** Timothy.Kowalik@umassmed.edu

**Co-Course Director email:**

**Course Administrator email:** Amy.Parker@umassmed.edu

**Class Meeting Information:** 3/26/2020 - 4/24/2020, Tuesdays, Thursdays and Fridays 10:30a-12p

**Class Meeting Location:** Tues (AS6-2072), Thurs (AS8-2072), Fri (AS9-2072)

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## BBS 755c - Introduction to Virology

Class #: 2107

This is the virology component of BBS755 Infection and Immune Response

**Prerequisites:** BBS 614 or course equivalent

**Credits:** 1 | **Grading:** Letter

**Associated Program(s):** Immunology & Microbiology

**Course Director:** Kowalik, Timothy

**Co-Course Director:**

**Course Administrator:** Parker, Amy

**Course Director email:** Timothy.Kowalik@umassmed.edu

**Co-Course Director email:**

**Course Administrator email:** Amy.Parker@umassmed.edu

**Class Meeting Information:** 4/28/2020 - 5/29/2020, Tuesdays, Thursdays and Fridays 10:30a-12p

**Class Meeting Location:** Tues (AS6-2072), Thurs (AS8-2072), Fri (AS9-2072)

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## BBS 760 - Introduction to Neuroscience

Class #: 2109

This course gives an overview of the fundamental principles of molecular, cellular, developmental and integrated neuroscience, including state-of-the-art experimental approaches. Required for all students in the Neuroscience Program. Optional advanced topics course for students in other programs.

**Prerequisites:** BBS 614 Foundations in Biomedical Science or permission from course coordinator

**Credits:** 3 | **Grading:** Letter

**Associated Program(s):** Neuroscience

**Course Director:** Rittenhouse, Ann

**Course Director email:** Ann.Rittenhouse@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:** Tuesdays & Thursdays

3:00p-4:30p

**Class Meeting Location:** LRB 716

**Required Textbooks:**

**Recommended Textbooks:** Kandel, Eric R., and Sarah Mack. Principles of Neural Science. McGraw-Hill Medical, 2014.

ISBN: 978-0071390118

**Additional notes:**

## BBS 764 - Systems and Computational Biology

Class #: 3105

This is a lecture and paper-discussion based course covering a broad range of topics in Systems Biology and Computational biology.

**Prerequisites:** BBS 614 Foundations in Biomedical Science or coordinator's approval.

**Credits:** 3 | **Grading:** Letter

**Associated Program(s):** Interdisciplinary Bioinformatics & Computational Biology

**Course Director:** Walhout, Marian

**Course Director email:** Marian.Walhout@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:** Yanick, Kristen

**Course Administrator email:** kristen.yanick@umassmed.edu

**Class Meeting Information:** Mondays and Fridays 1-2:30p

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## BBS 786 - Molecular Basis of Disease

Class #: 2553

The objective of this course is to introduce GSBS graduate students to approaches used to understand the molecular causes of representative diseases and application of such knowledge toward the design and implementation of rational therapies. The course focuses on variety of diseases, including neurodegenerative, cardiovascular, and metabolic diseases. Interspersed among these topics will be guest speakers who will discuss specific aspects of the drug design process and novel approaches to therapy, including gene-, RNA-, and cell-based interventions. Class discussions will also help prepare students to participate effectively in team-oriented translational science. Students will write a short NIH-style research proposal addressing a disease mechanism or therapy development of interest and defend the proposal during the last two weeks of class.

**Prerequisites:** Core Course (may be concurrent)

**Credits:** 3 | **Grading:** Letter

**Associated Program(s):** Translational Science Biochemistry & Molecular Pharmacology

**Course Director:** Mandrekar, Pranoti

**Course Director email:** pranoti.mandrekar@umassmed.edu

**Co-Course Director:** Trivedi, Chinmay

**Co-Course Director email:** chinmay.trivedi@umassmed.edu

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:** Wednesdays 9a-12p

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:** A list of scientific articles addressing the molecular and/or therapeutic aspects of disease will be provided at the beginning of each section of the course. Generally, the faculty will summarize the background material with the goal to define the

## BBS 801 - RNA Biology Journal Club

Class #: 2707

A discussion of recent and classical papers covering various topics in RNA biology. Students will choose from a list of papers provided by course coordinators or from recent literature with approval from coordinators.

**Prerequisites:** Permission from course coordinator

**Credits:** 1 | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** Interdisciplinary

**Course Director:** Ambros, Victor

**Course Director email:** victor.ambros@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:** Lynch, Joan

**Course Administrator email:** joan.lynch@umassmed.edu

**Class Meeting Information:** 4th Tuesday of the month 10a-12p

**Class Meeting Location:** Biotech 2, 2nd floor conference room

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:** Schedule and paper to be posted on the website:

<http://www.umassmed.edu/ambroslab/meetings/rna-biology-club-schedule/>

## BBS 810 - Graduate Student Seminar Series

**Class #: 2111  
GROUP REGISTERED**

This course provides students with the opportunity to develop public speaking skills necessary for scientific presentations. This experience will facilitate both formal and informal presentation of a student's own research. All BMP students will be registered in this course to satisfy the annual presentation requirement.

**Prerequisites:** None

**Credits: 1 | Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** Biochemistry & Molecular Pharmacology

**Course Director:** Kobertz, William

**Course Director email:** William.Kobertz@Umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:**

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:** Instructor will advise students of start date.

## BBS 834 - Immunobiology and Virology Spring Seminar Series

**Class #: 2113**

Leading researchers present a weekly seminar on a basic or clinical immunology and virology topic. Prior to the seminar, students read papers suggested by the seminar speaker and discuss the papers in class. Following the seminar, graduate students meet with the speaker for a discussion of the formal seminar. This course surveys the most important areas of basic and clinical immunology and virology, including, but not limited to, antigen presentation; gene rearrangements; and expression of the genes for antigen receptors, immune tolerance, cytokines, immune cell development, immunodeficiency diseases, autoimmune diseases, human immune system malignancies; and immune response to infectious agents such as viruses, parasites and bacteria.

**Prerequisites:** BBS755, Infection and Immune Response, BBS821, Molecular and Cellular Immunology

**Credits: 2 | Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** Immunology & Microbiology

**Course Director:** Silverman, Neal

**Course Director email:** neal.silverman@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:** Tuesdays 3p-4p and Thursdays 3p-5p

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## BBS 848 - Tutorial in Neuroscience

Class #: 2611

Tutorials offer the opportunity for one student or a small group of students to discuss research in a specific research area, or a series of selected papers, with one or more faculty members. The small group format allows extensive discussion and interaction. This course number allows faculty and students the flexibility to develop a syllabus of their making. The proposed syllabus must be approved by the Neuroscience Program director. Tutorials are arranged with individual faculty members. Students may re-enroll for multiple tutorials.

**Prerequisites:** Permission from Neuroscience Program Director

**Credits:** 1 | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** Neuroscience

**Course Director:** Weaver, David

**Course Director email:** david.weaver@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:** To be arranged with individual faculty member

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:** Expected effort for one credit is 15 contact hours

## BBS 849 - Current Topics in Neuroscience: Drug Addiction

Class #: 3686

The study of addiction is very appealing to neuroscientists, since aside from the obvious societal and medical impact of this topic, it allows one to cover the breadth of the discipline, from channel and membrane biophysics to psychology. In this course, which meets weekly for one-half semester, there will be an orientation lecture presented by the instructor, after which students will present and discuss relevant literature.

**Prerequisites:** None

**Credits:** 1 | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** Neuroscience

**Course Director:** Martin, Gilles

**Course Director email:** Gilles.Martin@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:** Contact course director for more information

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## BBS 850 - Laboratory Rotation

**Class #:** See class number list

Laboratory rotations are defined periods of research experience under the direction of a faculty member. They are intended to familiarize the student with concepts and techniques in several areas of research and to assist the student in evaluating research laboratories and projects that might be developed into a dissertation project. The student will participate in an ongoing research project; gain familiarity with concepts underlying the research; acquire a working knowledge of techniques used in the research; and write a report and present an oral summary of the results of the research.

**Prerequisites:** None

**Credits:** Variable | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** Basic & Biomedical Sciences

**Course Director:** GSBS Full Faculty

**Course Director email:** N/A

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:**

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## BBS 870 - Prequalifying Research

**Class #:** See class number list

This course is for students who have selected a program and thesis advisor but who have not yet passed the Qualifying Examination.

**Prerequisites:** None

**Credits:** 9 | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** Basic & Biomedical Sciences

**Course Director:** Student's thesis advisor

**Course Director email:** N/A

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:**

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## BBS 900 - Thesis Research

**Class #: AUTO REGISTERED**

Students register for Thesis Research fall term of year three of the program, after passing the Qualifying Exam.

**Prerequisites:** None

**Credits:** 12 | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** Basic & Biomedical Sciences

**Course Director:** Student's thesis advisor

**Course Director email:** N/A

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:**

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## BBS 990 - Graduate Research

**Class #: AUTO REGISTERED**

Students register for Graduate Research fall term of year four in the PhD Program and will continue to register each semester until they complete all remaining requirements.

**Prerequisites:** None

**Credits:** 0 | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** Basic & Biomedical Sciences

**Course Director:** Student's thesis advisor

**Course Director email:** N/A

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:**

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## Clinical & Translational Science Courses

### CTS 602B - Advanced Epidemiology and Research Methods

Class #: 3169

The purpose of this class is to learn advanced epidemiologic techniques, to learn how and when to apply them, and to learn to design rigorous epidemiologic studies. Students will gain experience in reading the primary epidemiologic methods literature. Course objectives will be met through class lecture, class discussion, problem sets, exams, application of selected principles to one's research and the development of a mini-lecture.

**Prerequisites:** CTS602A, CTS603A, CTS603B (corequisite)

**Credits:** 3 | **Grading:** Letter

**Associated Program(s):** Clinical & Population Health Research MS Clinical Investigation

**Course Director:** Nunes, Anthony

**Co-Course Director:** Lapane, Kate

**Course Administrator:** Baron, Kelley

**Course Director email:** Anthony.Nunes@umassmed.edu

**Co-Course Director email:** kate.lapane@umassmed.edu

**Course Administrator email:** kelley.baron@umassmed.edu

**Class Meeting Information:** Tuesdays & Thursdays 9a-10:30a

**Class Meeting Location:** AS5-2072

**Required Textbooks:** Rothman, K. J., Greenland, S., & Lash, T. L. (n.d.). Modern epidemiology. ISBN: 978-1451190052 | Savitz, D. A., & Wellenius, G. A. (2016). Interpreting epidemiologic evidence: connecting research to applications. New York, NY, United States of America:

**Recommended Textbooks:**

**Additional notes:**

### CTS 603B - Statistical Methods for Survival and Longitudinal Data Analysis

Class #: 3149

Course provides a foundation for statistical thinking in clinical and population health research involving time to event data and longitudinal data. Students will learn statistical models used for estimation and inference; understand advanced statistical techniques; and develop modeling strategies and analysis plans for specific research questions.

**Prerequisites:** CTS603A

**Credits:** 4 | **Grading:** Letter

**Associated Program(s):** Clinical & Population Health Research MS Clinical Investigation

**Course Director:** Baek, Jonggyu

**Co-Course Director:**

**Course Administrator:** Baron, Kelley

**Course Director email:** Jonggyu.Baek@umassmed.edu

**Co-Course Director email:**

**Course Administrator email:** kelley.baron@umassmed.edu

**Class Meeting Information:** Tuesdays & Thursdays 10:30a-12p, Wednesdays 3:30p-5p

**Class Meeting Location:** Tuesday & Wednesday AS5-2072, Thursday AS5-2042

**Required Textbooks:** Kleinbaum, D. G., & Klein, M. (2012). Survival analysis: a self-learning text. New York, NY: Springer. ISBN: 978-1441966452 | Fitzmaurice, G. M., Laird, N. M., & Ware, J. H. (2011). Applied Longitudinal Analysis. Hoboken: Wiley. ISBN: 978-0-470-38027-7

**Recommended Textbooks:**

**Additional notes:**

## CTS 611 - Scientific Writing

Class #: 3775

This course teaches students how to develop a peer reviewed scientific manuscript, through the review of elements of style, authorship and extent of information that needs to be incorporated into a scientific research paper. Students will learn how to develop the elements that go into a successful scientific manuscript, submit an article for peer review and respond to reviewers' concerns. During each session, students will critique the work of others enrolled in the course to obtain hands on experience in the write-up of the introduction, methods, results and discussion sections of a manuscript. This course will also teach students how to put together a successful oral, as well as poster, scientific presentation.

**Prerequisites:** None

**Credits:** 3 | **Grading:** Letter

**Associated Program(s):** Clinical & Population Health Research MS Clinical Investigation

**Course Director:** Goldberg, Robert

**Course Director email:** robert.goldberg@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:** Tuesdays 1:00p – 2:00p

**Class Meeting Location:** AS6-2069

**Required Textbooks:** Byrne, D. W. (1998). Publishing your medical research paper: What they don't teach in medical school. Baltimore: Williams & Wilkins. ISBN: 0-683-30074-1 Browner, W. S. (2006). Publishing and presenting clinical research. Philadelphia, PA: Lippincott Willia

**Recommended Textbooks:**

**Additional notes:**

## CTS 716 - Advanced Analytical Methods in Health Outcome Studies

Class #: 3776

This advanced methods course is focused on learning methods for addressing confounding and bias. The goals for students taking this course are: to become comfortable recognizing and discussing bias and confounding; to gain experience in using a variety of techniques that help in identifying and minimizing bias and confounding; and to be able to assess the potential impact of residual bias and confounding on study results. This course is organized as topic lectures followed by applications of the topic. Students independently apply what is introduced in the lecture to their own data and share their learning with classmates.

**Prerequisites:** CTS602A, CTS602B, CTS603A, CTS603B

**Credits:** 3 | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** Clinical & Population Health Research MS Clinical Investigation

**Course Director:** Alcusky, Matthew

**Course Director email:** Matthew.Alcusky@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:** Thursday 12:30-2:30p

**Class Meeting Location:** AS6-2069

**Required Textbooks:**

**Recommended Textbooks:** None

**Additional notes:**

## CTS 717 - Randomized Clinical Trials in Behavioral Research

Class #: 3688

The purpose of this course is to provide opportunities for the student to understand the foundations of randomized clinical trials (RCTs) in behavioral medicine research. Topics related to theory, design, implementation and evaluation of behavioral randomized clinical trials will be discussed. Students will develop a research project where concepts can be applied and practice reviewing behavioral RCTs in the published literature.

**Prerequisites:** CTS 702 or permission from instructor.

**Credits:** 2 | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** Clinical & Population Health Research MS Clinical Investigation

**Course Director:** Dube, Catherine

**Course Director email:** catherine.dube@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:** Thursday 2:30-4:30p

**Class Meeting Location:** AS7-2072

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:** Last class is 6/26/2018; Final paper due 5/7/2018

## CTS 721 - Infectious Disease Epidemiology

Class #: 3777

This course is designed to provide a historical perspective on infectious disease epidemiology as a basis for understanding current global health research and programs aimed at disease control, elimination, eradication and extinction.

A passing grade will be based on class participation, discussing required readings and a final written (take-home) report.

**Prerequisites:** CTS605A or permission from instructor

**Credits:** 2 | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** Clinical & Population Health Research MS Clinical Investigation Immunology & Microbiology

**Course Director:** Moormann, Ann

**Course Director email:** ann.moormann@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:** Please contact course director for meeting information

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## CTS 727 - Use of Existing Population-Based Public Health and Health Care Data

Class #: 3689

Students will become familiar with existing population-based public health, electronic medical record and claims data. Topics include advantages and disadvantages, complex sampling and weighting, and obtaining limited-access data. Using a population-based dataset, students will develop and implement an analytic plan to answer a research question of their choosing.

**Prerequisites:** At least one semester each of epidemiology and biostatistics or permission of the course director

**Credits:** 2 | **Grading:** Letter

**Associated Program(s):** Clinical & Population Health Research MS Clinical Investigation

**Course Director:** Liu, ShaoHsien

**Course Director email:** ShaoHsien.Liu@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:** Tuesday 4-6p

**Class Meeting Location:** AS6-2069

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## CTS 799 - Independent Study

Class #: See class number list

The purpose of an independent study elective is to gain in depth knowledge of a specific topic by working closely with a faculty member with expertise in that area. Typically independent studies cover areas not addressed in the core curriculum and advanced topics or other electives. However, the level of effort and objectives for an independent study must be equivalent to that of a regular three-credit course. The student and sponsoring faculty member must propose a framework and outcome for the independent study, in the semester prior to the semester in which the student will be enrolled, to the program director for prior approval.

**Prerequisites:** Permission of Associate Dean for CPHR & course coordinator.

**Credits:** 3 | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** Clinical & Population Health Research MS Clinical Investigation

**Course Director:** Lapane, Kate

**Course Director email:** kate.lapane@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:** Please contact course director for meeting information

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## CTS 802 - Journal Club

Class #: 3125

This journal club provides a forum in which students will discuss current articles in the peer reviewed literature and will be introduced to advanced epidemiologic and analytic methods. Through readings, presentations and discussion, students will deepen their understanding of methods critical for clinical investigation and strengthen their data presentation and writing skills.

**Prerequisites:** None

**Credits:** 1 | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** Clinical & Population Health Research MS Clinical Investigation

**Course Director:** Goldberg, Robert

**Course Director email:** robert.goldberg@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:** Tuesdays 12p-1p

**Class Meeting Location:** AS6-2069

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## CTS 850 - Research Assistantship

Class #: See class number list

Research rotations are defined periods of research experience under the direction of a faculty member. They are intended to familiarize the student with the theory, background, concepts and techniques in several areas of research and to assist the student in evaluating projects and areas that might be developed into a dissertation project. The student will participate in an ongoing research project; gain familiarity with a field of study; acquire a working knowledge of techniques used in the research; and write a report and make an oral presentation on the results of their work.

**Prerequisites:** None

**Credits:** 4 | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** Clinical & Population Health Research

**Course Director:** Student's advisor

**Course Director email:** N/A

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:**

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## CTS 870 - Pre-Thesis Research

Class #: See class number list

This course is for students who have selected a program and thesis advisor but who have not yet passed their Qualifying Examination.

**Prerequisites:** None

**Credits:** Variable | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** Clinical & Population Health Research MS Clinical Investigation

**Course Director:** Student's thesis advisor

**Course Director email:** N/A

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:**

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## CTS 875 - Grant Writing

Class #: 3237

The purpose of this course is to allow students, post-doctoral fellows, residents and junior faculty to gain experience writing NIH-style grant proposals in a systematic fashion under faculty guidance. The course is designed to walk the student through each of the NIH grant proposal requirements. The course will include detailed overviews of the grant process, participation in a mock proposal review session and the completion of each of the written scientific components of an NIH grant. For Ph.D. students, the course serves as a basis for developing the dissertation proposal, which will be in the format of an NIH proposal. Students are expected to involve their mentors and mentorship teams in decision making and receive their input throughout the semester.

**Prerequisites:** CTS702, CTS602A, CTS603A or permission of instructor

**Credits:** 3 | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** Clinical & Population Health Research MS Clinical Investigation

**Course Director:** Lemon, Stephenie

**Course Director email:** Stephenie.Lemon@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:** Wednesdays 12-2p

**Class Meeting Location:** AS8-1073

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## CTS 900 - Thesis Research

**Class #: AUTO REGISTERED**

Students register for Thesis Research after passing a Qualifying Examination. They will take Thesis Research each semester until they have accumulated 90 credits.

**Prerequisites:** None

**Credits:** Variable | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** Clinical & Population Health Research MS Clinical Investigation

**Course Director:** Student's thesis advisor

**Course Director email:** N/A

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:**

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## CTS 990 - Graduate Research

**Class #: AUTO REGISTERED**

Students register for Graduate Research after completing the requisite number of credits to meet graduation requirements. They will take this course each semester until they complete all remaining requirements.

**Prerequisites:** None

**Credits:** 0 | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** Clinical & Population Health Research MS Clinical Investigation

**Course Director:** Student's thesis advisor

**Course Director email:** N/A

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:**

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## Health Sciences Preparatory Program Courses

### HSP 502B - Medical Physiology and Histology Part B

Class #: 3531

The goals of the course are to provide: a study of basic human physiology, which is the biological study of the functions of living organisms and their parts; a study of the microscopic anatomy of the cellular organization and structure of individual tissues and organ systems.

**Prerequisites:** BWCT, HSP502A

**Credits:** 1 | **Grading:** Letter

**Associated Program(s):** Health Sciences Preparatory Program

**Course Director:** Jonassen, Julie

**Course Director email:** julie.jonassen@umassmed.edu

**Co-Course Director:** Das, Manas

**Co-Course Director email:** manas.das@umassmed.edu

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:**

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:** Berne, R. M., Levy, M. N., Koeppen, B. M., & Stanton, B. A. (2018). Berne & Levy physiology. Philadelphia: Elsevier. ISBN: 9780323393942

**Additional notes:**

### HSP 503 - Epidemiology/Biostatistics

Class #: 3537

The primary goal of the course is to provide students with a core set of concepts and skills in epidemiology and biostatistics that are required to critically evaluate the medical literature, important components of evidence-based medicine.

**Prerequisites:**

**Credits:** 3 | **Grading:** Letter

**Associated Program(s):** Health Sciences Preparatory Program

**Course Director:** Epstein, Mara

**Course Director email:** mara.epstein@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:**

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:** Dawson, B. (n.d.). Basic & clinical biostatistics, 4th ed. Mc Graw Hil: 2004. ISBN: 978-0071410175

**Additional notes:**

## HSP 504B - Academic Achievement Part B

Class #: 3539

This course includes the following three elements:

Academic Coaching: Sessions with education specialist and student mentors (three hours contact/wk – can be in small groups and one-on-one sessions based on students' needs) to evaluate individual learning styles, adapt/develop study skills, test prep, exam review, error analysis, time management;

Group study sessions: (two hours/wk) – 1 hour student group discussion/preparation; 1 hour with course-specific faculty, alternating weekly;

HSPP advisor meetings: (30 minutes/wk) - individual (one per month) and group meeting (one per month) with HSPP advisors. Specific activities include MCAT prep, interview skills.

**Prerequisites:**

**Credits: 2 | Grading:** Letter

**Associated Program(s):** Health Sciences Preparatory Program

**Course Director:** Hines, Deborah Harmon

**Co-Course Director:** Knight, Kendall

**Course Administrator:**

**Course Director email:** deborah-harmon.hines@umassmed.edu

**Co-Course Director email:** kendall.knight@umassmed.edu

**Course Administrator email:**

**Class Meeting Information:** Meeting details are communicated monthly to students

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## HSP 505 - Clinical Medicine

Class #: 3533

This is two-credit shadowing experience in outpatient and inpatient settings, shadowing a physician and other team members – approximately seven 3-hour clinical sessions; assigned reading of two novels and other appropriate readings with small group discussions on becoming a physician and the U.S. health care system and related assignments and presentations to the class.

**Prerequisites:**

**Credits: 2 | Grading:** Letter

**Associated Program(s):** Health Sciences Preparatory Program

**Course Director:** Garcia, Maria

**Co-Course Director:** Polackal, Ninan

**Course Administrator:** Torres Gutierrez, Maria

**Course Director email:** Maria.garciaMD@umassmed.edu

**Co-Course Director email:**

Ninan.Polackal@umassmemorial.org

**Course Administrator email:**

Maria.TorresGutierrez@umassmed.edu

**Class Meeting Information:**

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## HSP 506 - Clinical Immersion

**Class #: 3535**

Immersion in research or community project that allows students to learn and apply basic biostatistics knowledge and prepare for the Spring Epi/Biostats core course; Fall will be focused on engaging in the experience with limited small group sessions; Spring will involve less engagement with immersion site with a focus on writing and presenting work.

**Prerequisites:**

**Credits: 2 | Grading:** Letter

**Associated Program(s):** Health Sciences Preparatory Program

**Course Director:** Person, Sharina

**Course Director email:** sharina.person@umassmed.edu

**Co-Course Director:** Allison, Jeroan

**Co-Course Director email:** jeroan.allison@umassmed.edu

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:**

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## MD/PhD Courses

### MDP 740A - Developing Solutions To Research Problems A - Year One

Class #: 3551  
GROUP REGISTERED

**Course Goals:** The goal for the course is to engage MD-PhD students in the critical thinking skills required to perform biomedical research, in a manner that enables their intellectual contribution to the University's academic and research functions. The course will examine specific questions of relevance in medicine, and explore how these questions are addressed from multiple scientific perspectives, (e.g., epidemiological, population based, animal model research, cellular and molecular mechanisms). The course will be mostly based on critical analysis of primary literature. Faculty will provide brief background material in the form of lectures, to enable analysis of the primary research papers. Students will discuss papers in small teams and within the whole group. Each section will culminate with the presentation by students of an original research proposal on the specific question being studied.

**Prerequisites:** None

**Credits:** 1 | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** MD/PhD

**Course Director:** Corvera, Silvia

**Course Director email:** silvia.corvera@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:**

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## MDP 740B - Developing Solutions To Research Problems B - Year Two

Class #: See class number list

The goal for the course is to engage MD-PhD students in the critical thinking skills required to perform biomedical research, in a manner that enables their intellectual contribution to the University's academic and research functions. It will enhance understanding of the continuum of research that is required for advancement of medicine and health, and of quantitative approaches that enable such research. Topics range from basic science insights on the pathogenesis of disease to examining the quality of health care, health care outcomes, health care disparities and health policy. The course is divided into 2 sections: Section 1 is a computational skills bootcamp based on R, which includes data types, data structures, data visualization, supervised and unsupervised machine learning and basic statistics. Section 1 culminates with a data science competition where teams with the best predictive model derived from a de-identified clinical data set are awarded. Section 2 explores rigor and reproducibility in research and includes analysis of published articles and re-analysis of accompanying data sets to compare alternative approaches and define the strength of conclusions. Both sections include team-based project development and presentation. Course is combined class of MD/PhD students and medical students in the Clinical and Translational Research Pathway (CTR) in the School of Medicine.

**Prerequisites:** None

**Credits:** 1 | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** MD/PhD

**Course Director:** Corvera, Silvia

**Course Director email:** silvia.corvera@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:**

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## MDP 740C - Developing Solutions To Research Problems C - Year Three

Class #: 3553  
GROUP REGISTERED

**Course Goals:** The goal for the course is to expose MD-PhD students to areas of basic and translational research, and to the knowledge skills necessary to conduct research in these areas in a manner that enables their intellectual contribution to the University's academic and research functions. To meet this goal, the student will work directly with a selected member of the research faculty, which can include but is not limited to their PhD thesis mentor, for a minimum of one hour per week over the course of the semester (15 hours total). They will discuss experimental strategies to address questions of basic, clinical, and/or translation importance. These can include, but are not limited to, work that advances the student's personal research toward publication or presentation.

**Prerequisites:** None

**Credits:** 1 | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** MD/PhD

**Course Director:** Corvera, Silvia

**Course Director email:** silvia.corvera@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:**

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## MDP 741 - Introduction to Translational Medicine

Class #: 3547  
GROUP REGISTERED

**Course Goals:** The MD/PhD program stresses the importance of clinical involvement throughout the graduate years. The first goal of this course is to provide students with a continuous link to clinical skills and to familiarize students with different clinical settings. Sessions should reinforce clinical skills learned from the first two years of the medical curriculum plus the 16 weeks of clerkship in Care of Family and Care of Adults prior to research studies. The second goal is to introduce clinicians and potential mentors to the MD/PhD students. The third goal of this section of the course is to ease the transition back to the clinical years of medical school. Students are encouraged to work with physician scientists that will help them to get hands-on experience with the day-to-day work of physician scientists.

**Prerequisites:** Open only to MD/PhD Students in PhD Portion of Degree

**Credits:** 1 | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** MD/PhD

**Course Director:** Corvera, Silvia

**Course Director email:** silvia.corvera@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:**

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## MDP 744 - MD/PhD Learning Communities

Class #: 3573  
GROUP REGISTERED

Provides information about School of Medicine Learning Communities (LC) including house member lists, mentor-mentee assignments, LC student leadership, career planning resources, information for planning clerkships and more. This is important for all the MD/PhD students during both the School of Medicine and GSBS years.

**Prerequisites:** None

**Credits:** 0 | **Grading:** Not graded

**Associated Program(s):** MD/PhD

**Course Director:** Corvera, Silvia

**Course Director email:** silvia.corvera@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:**

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## MDP 800 - MD/PhD Seminar

Class #: 3549  
GROUP REGISTERED

This seminar series is a semi-monthly event, organized by the MD/PhD students, and participation is required for all years in the program. The seminar assists students in developing communications competency through these presentations. Each session, two upper level graduate students present their research project. A moderator will maintain the 20 minute timeframe and facilitate the discussion.

**Prerequisites:** None

**Credits:** 1 | **Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** MD/PhD

**Course Director:** Michelson, Anne

**Course Director email:** anne.michelson@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:**

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## **MDP 990 - MD/PhD Graduate Research for Students Post-Dissertation**

**Class #:3543  
GROUP REGISTERED**

Students enrolled in the MD/PHD Program who have completed their requirements for the PhD degree will register for this GSBS course each semester while completing their School of Medicine requirements. Students enrolled in this course will participate in and assist with the teaching/evaluation of the MDP Seminar course (MDP800). This course is the MD/PhD equivalent of the GSBS course - GR900, Graduate Research. All students must be in good standing in the MD/PhD program to pass.

**Prerequisites:** Completion of all the PhD requirements in the Graduate School of Biomedical Sciences.

**Credits: 0 | Grading:** Pass/Marginal Pass/Fail

**Associated Program(s):** MD/PhD

**Course Director:** Michelson, Anne

**Course Director email:** anne.michelson@umassmed.edu

**Co-Course Director:**

**Co-Course Director email:**

**Course Administrator:**

**Course Administrator email:**

**Class Meeting Information:**

**Class Meeting Location:**

**Required Textbooks:**

**Recommended Textbooks:**

**Additional notes:**

## CLASS NUMBER LIST

### Basic & Biomedical Sciences Non-Research Class Numbers

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2709	BBS	603	1	Resp.Conduct Res. Post Doc.Sch	Imbalzano	Anthony
3758	BBS	718	1	Regulatory RNA Biology	Ryder	Sean
2749	BBS	719	1	Cellular Biochemistry	Thompson	Paul
3091	BBS	725	1	Cancer Biology	Mercurio	Arthur
1483	BBS	755	1	Infection and Immune Response	Kowalik	Timothy
2103	BBS	755A	1	Introduction to Immunology	Kowalik	Timothy
2105	BBS	755B	1	Introduction to Bacteriology	Kowalik	Timothy
2107	BBS	755C	1	Introduction to Virology	Kowalik	Timothy
2109	BBS	760	1	Introduction to Neuroscience	Rittenhouse	Ann
3105	BBS	764	1	Systems&Computational Biology	Walhout	Albertha
2553	BBS	786	1	Molecular Basis of Disease	Mandrekar	Pranoti
2707	BBS	801	1	RNA Biology Journal Club	Ambros	Victor
2111	BBS	810	1	Grad. Student Seminar Series	Kobertz	William
2113	BBS	834	1	Immunobio & Virology Spr Sem	Silverman	Neal
2611	BBS	848	1	Tutorial in Neuroscience	Weaver	David
3686	BBS	849	1	Curr.Topics: Neurosci.Drug Adt	Martin	Gilles

### Basic & Biomedical Sciences Research Courses Class Numbers

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2561	BBS	850	L1	Laboratory Rotation	Alkema	Mark
2543	BBS	850	L1	Laboratory Rotation	Alonso	Laura
1013	BBS	850	L1	Laboratory Rotation	Ambros	Victor
2797	BBS	850	L1	Laboratory Rotation	ANACLET	Christelle
1015	BBS	850	L1	Laboratory Rotation	ANDERSON	Frederick Arthur
2667	BBS	850	L1	Laboratory Rotation	Aroian	Raffi
1017	BBS	850	L1	Laboratory Rotation	Aronin	Neil
3109	BBS	850	L1	Laboratory Rotation	Bach	Ingolf
1019	BBS	850	L1	Laboratory Rotation	Baehrecke	Eric

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2317	BBS	850	L1	Laboratory Rotation	Bailey	Jeffrey
2607	BBS	850	L1	Laboratory Rotation	Behar	Samuel
2359	BBS	850	L1	Laboratory Rotation	Benanti	Jennifer
1241	BBS	850	L1	Laboratory Rotation	Benard	Claire
1021	BBS	850	L1	Laboratory Rotation	Berg	Leslie
2479	BBS	850	L1	Laboratory Rotation	Bergmann	Andreas
3751	BBS	850	L1	Laboratory Rotation	BOGUNOVIC	Milena
1023	BBS	850	L1	Laboratory Rotation	Bolon	Daniel
1229	BBS	850	L1	Laboratory Rotation	Bosco	Daryl
2321	BBS	850	L1	Laboratory Rotation	Boyer	Edward
2687	BBS	850	L1	Laboratory Rotation	Brass	Abraham
2175	BBS	850	L1	Laboratory Rotation	Brehm	Michael
2689	BBS	850	L1	Laboratory Rotation	Brewster	Robert
1233	BBS	850	L1	Laboratory Rotation	Brown	Robert
3745	BBS	850	L1	Laboratory Rotation	BUCCI	Vanni
1025	BBS	850	L1	Laboratory Rotation	Budnik	Vivian
2753	BBS	850	L1	Laboratory Rotation	BYRNE	Alexandra Catherine
1027	BBS	850	L1	Laboratory Rotation	Cantor	Sharon
1029	BBS	850	L1	Laboratory Rotation	Carruthers	Anthony
1031	BBS	850	L1	Laboratory Rotation	Castilla	Lucio
2719	BBS	850	L1	Laboratory Rotation	Cavacini	Lisa
2243	BBS	850	L1	Laboratory Rotation	Ceol	Craig
1033	BBS	850	L1	Laboratory Rotation	CHAN	Francis Ka Ming
1035	BBS	850	L1	Laboratory Rotation	Clapham	Paul
1037	BBS	850	L1	Laboratory Rotation	Clark	Robin
2213	BBS	850	L1	Laboratory Rotation	Cooper	Marcus
1039	BBS	850	L1	Laboratory Rotation	Corvera	Silvia
1041	BBS	850	L1	Laboratory Rotation	CZECH	Michael Paul
1043	BBS	850	L1	Laboratory Rotation	Davis	Roger
1045	BBS	850	L1	Laboratory Rotation	Dekker	Job

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3097	BBS	850	L1	Laboratory Rotation	Donahue	John
1047	BBS	850	L1	Laboratory Rotation	EMERY	Patrick
2279	BBS	850	L1	Laboratory Rotation	Fazzio	Thomas
1049	BBS	850	L1	Laboratory Rotation	Finberg	Robert
1051	BBS	850	L1	Laboratory Rotation	Fitzgerald	Katherine
3715	BBS	850	L1	Laboratory Rotation	FITZGERALD	Thomas
1053	BBS	850	L1	Laboratory Rotation	Flotte	Terence
1055	BBS	850	L1	Laboratory Rotation	Francis	Michael
2959	BBS	850	L1	Laboratory Rotation	FREEDMAN	Jane
1057	BBS	850	L1	Laboratory Rotation	Freeman	Marc
2381	BBS	850	L1	Laboratory Rotation	Futai	Kensuke
2271	BBS	850	L1	Laboratory Rotation	Gao	Fen-Biao
1061	BBS	850	L1	Laboratory Rotation	Gao	Guangping
2507	BBS	850	L1	Laboratory Rotation	Garber	Manuel
1059	BBS	850	L1	Laboratory Rotation	Gardner	Paul
1063	BBS	850	L1	Laboratory Rotation	GOLDBERG	Robert Joel
1065	BBS	850	L1	Laboratory Rotation	Golenbock	Douglas
1067	BBS	850	L1	Laboratory Rotation	Gottlinger	Heinrich
1069	BBS	850	L1	Laboratory Rotation	Gravallesse	Ellen
3723	BBS	850	L1	Laboratory Rotation	GRAYEDWARDS	Heather Leigh
1071	BBS	850	L1	Laboratory Rotation	Green	Michael
2983	BBS	850	L1	Laboratory Rotation	GREER	Paul Lieberman
1073	BBS	850	L1	Laboratory Rotation	Greiner	Dale
2503	BBS	850	L1	Laboratory Rotation	Grunwald	David
2223	BBS	850	L1	Laboratory Rotation	Guertin	David
2391	BBS	850	L1	Laboratory Rotation	Han	Gang
2393	BBS	850	L1	Laboratory Rotation	Harris	John
2765	BBS	850	L1	Laboratory Rotation	Haynes	Cole
1075	BBS	850	L1	Laboratory Rotation	Hayward	Lawrence
3692	BBS	850	L1	Laboratory Rotation	Henninger	Nils

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
1077	BBS	850	L1	Laboratory Rotation	Huseby	Eric
1079	BBS	850	L1	Laboratory Rotation	Imbalzano	Anthony
1081	BBS	850	L1	Laboratory Rotation	Ip	Yicktung
2793	BBS	850	L1	Laboratory Rotation	IRAZOQUI	Javier Elbio
1083	BBS	850	L1	Laboratory Rotation	Jacobson	Allan
3694	BBS	850	L1	Laboratory Rotation	JOHNSON	Mark Damone
1085	BBS	850	L1	Laboratory Rotation	Jones	Stephen
1087	BBS	850	L1	Laboratory Rotation	Kang	Joonsoo
2671	BBS	850	L1	Laboratory Rotation	Karlsson	Elinor
1089	BBS	850	L1	Laboratory Rotation	Kaufman	Paul
2323	BBS	850	L1	Laboratory Rotation	Keaney	John
2587	BBS	850	L1	Laboratory Rotation	Kelch	Brian
1091	BBS	850	L1	Laboratory Rotation	Kelliher	Michelle
2395	BBS	850	L1	Laboratory Rotation	Kennedy	David
2397	BBS	850	L1	Laboratory Rotation	Khanna	Hemant
1003	BBS	850	L1	Laboratory Rotation	Khvorova	Anastasia
2297	BBS	850	L1	Laboratory Rotation	Kiefe	Catarina
2733	BBS	850	L1	Laboratory Rotation	Kim	Dohoон
1227	BBS	850	L1	Laboratory Rotation	Kim	Jason
1093	BBS	850	L1	Laboratory Rotation	King	Jean
1095	BBS	850	L1	Laboratory Rotation	Kobertz	William
1097	BBS	850	L1	Laboratory Rotation	Kornfeld	Hardy
2437	BBS	850	L1	Laboratory Rotation	Korostelev	Andrei
1099	BBS	850	L1	Laboratory Rotation	Kowalik	Timothy
1101	BBS	850	L1	Laboratory Rotation	Kurt-Jones	Evelyn
3025	BBS	850	L1	Laboratory Rotation	Lambright	David
1239	BBS	850	L1	Laboratory Rotation	Landers	John
2583	BBS	850	L1	Laboratory Rotation	Lane	Mary
1103	BBS	850	L1	Laboratory Rotation	Lawrence	Jeanne
1105	BBS	850	L1	Laboratory Rotation	Lawson	Nathan

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2597	BBS	850	L1	Laboratory Rotation	Lee	Michael
1107	BBS	850	L1	Laboratory Rotation	Lee	Tzumin
1109	BBS	850	L1	Laboratory Rotation	Levitz	Stuart
1111	BBS	850	L1	Laboratory Rotation	Lewis	Brian
1113	BBS	850	L1	Laboratory Rotation	Li	Hong-Sheng
1225	BBS	850	L1	Laboratory Rotation	Li	Shaoguang
2987	BBS	850	L1	Laboratory Rotation	Li	Wenjun
1115	BBS	850	L1	Laboratory Rotation	Libraty	Daniel
1117	BBS	850	L1	Laboratory Rotation	Lien	Egil
2287	BBS	850	L1	Laboratory Rotation	Lois	Carlos
1119	BBS	850	L1	Laboratory Rotation	Lu	Shan
2499	BBS	850	L1	Laboratory Rotation	Luban	Jeremy
1121	BBS	850	L1	Laboratory Rotation	Luckmann	Roger
2483	BBS	850	L1	Laboratory Rotation	Maehr	Rene
1479	BBS	850	L1	Laboratory Rotation	Mandrekar	Pranoti
1235	BBS	850	L1	Laboratory Rotation	Mao	Junhao
2319	BBS	850	L1	Laboratory Rotation	Martin	Gilles
1123	BBS	850	L1	Laboratory Rotation	Massi	Francesca
1125	BBS	850	L1	Laboratory Rotation	Matthews	Charles
1127	BBS	850	L1	Laboratory Rotation	McCollum	Dannel
1237	BBS	850	L1	Laboratory Rotation	McCormick	Beth
1129	BBS	850	L1	Laboratory Rotation	Melikian	Haley
1131	BBS	850	L1	Laboratory Rotation	Mello	Craig
1133	BBS	850	L1	Laboratory Rotation	Mercurio	Arthur
1135	BBS	850	L1	Laboratory Rotation	Miller	Stephen
2801	BBS	850	L1	Laboratory Rotation	MITCHELL	Amir Zadok
2991	BBS	850	L1	Laboratory Rotation	Moore	Constance
1137	BBS	850	L1	Laboratory Rotation	Moore	Melissa
1481	BBS	850	L1	Laboratory Rotation	Moormann	Ann
1139	BBS	850	L1	Laboratory Rotation	Morrison	Trudy

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2955	BBS	850	L1	Laboratory Rotation	Muller	Christian
1141	BBS	850	L1	Laboratory Rotation	Munson	Maryann
1143	BBS	850	L1	Laboratory Rotation	Newburger	Peter
1145	BBS	850	L1	Laboratory Rotation	Ockene	Judith
2463	BBS	850	L1	Laboratory Rotation	Ortiz-Miranda	Sonia
1243	BBS	850	L1	Laboratory Rotation	Ostroff	Gary
3041	BBS	850	L1	Laboratory Rotation	PAI	Athma Anjali
1147	BBS	850	L1	Laboratory Rotation	Paydarfar	David
1149	BBS	850	L1	Laboratory Rotation	Pazour	Gregory
1151	BBS	850	L1	Laboratory Rotation	Peterson	Craig
1153	BBS	850	L1	Laboratory Rotation	Pryciak	Peter
2675	BBS	850	L1	Laboratory Rotation	Pukkila-Worley	Read
2399	BBS	850	L1	Laboratory Rotation	Punzo	Claudio
1155	BBS	850	L1	Laboratory Rotation	Ram	Sanjay
1157	BBS	850	L1	Laboratory Rotation	Rando	Oliver
2761	BBS	850	L1	Laboratory Rotation	REBOLDI	Andrea
1159	BBS	850	L1	Laboratory Rotation	Rhind	Nicholas
1161	BBS	850	L1	Laboratory Rotation	Richter	Joel
1163	BBS	850	L1	Laboratory Rotation	Rivera Perez	Jaime
1165	BBS	850	L1	Laboratory Rotation	Rock	Kenneth
2995	BBS	850	L1	Laboratory Rotation	Rogaev	Evgeny
1167	BBS	850	L1	Laboratory Rotation	Ross	Alonzo
2241	BBS	850	L1	Laboratory Rotation	Rothstein	Ann
1169	BBS	850	L1	Laboratory Rotation	Royer	William
1171	BBS	850	L1	Laboratory Rotation	Ruiz De Luzuriaga	Katherine
1173	BBS	850	L1	Laboratory Rotation	Ryder	Sean
1175	BBS	850	L1	Laboratory Rotation	Sagerstrom	Charles
1177	BBS	850	L1	Laboratory Rotation	Sassetti	Christopher
2695	BBS	850	L1	Laboratory Rotation	Schafer	Dorothy
1179	BBS	850	L1	Laboratory Rotation	Schiffer	Celia

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
1181	BBS	850	L1	Laboratory Rotation	Selin	Liisa
2233	BBS	850	L1	Laboratory Rotation	Sena Esteves	Miguel
3101	BBS	850	L1	Laboratory Rotation	Shaffer	Scott
1183	BBS	850	L1	Laboratory Rotation	Shaw	Leslie
3749	BBS	850	L1	Laboratory Rotation	SHEN	Kuang
2757	BBS	850	L1	Laboratory Rotation	Shim	Jae-Hyuck
3029	BBS	850	L1	Laboratory Rotation	SHOHET	Jason Matthew
1185	BBS	850	L1	Laboratory Rotation	Silverman	Neal
1187	BBS	850	L1	Laboratory Rotation	Sluder	Greenfield
1189	BBS	850	L1	Laboratory Rotation	Socolovsky	Merav
1191	BBS	850	L1	Laboratory Rotation	Song	Jie
3019	BBS	850	L1	Laboratory Rotation	Sontheimer	Erik
1193	BBS	850	L1	Laboratory Rotation	Stein	Gary
1195	BBS	850	L1	Laboratory Rotation	Stern	Lawrence
2401	BBS	850	L1	Laboratory Rotation	Swain	Susan
1197	BBS	850	L1	Laboratory Rotation	Szabo	Gyongyi
1199	BBS	850	L1	Laboratory Rotation	Tapper	Andrew
1201	BBS	850	L1	Laboratory Rotation	Theurkauf	William
2683	BBS	850	L1	Laboratory Rotation	Thompson	Paul
3730	BBS	850	L1	Laboratory Rotation	Thomson	Travis
1203	BBS	850	L1	Laboratory Rotation	Tissenbaum	Heidi
2295	BBS	850	L1	Laboratory Rotation	Torres	Eduardo
2539	BBS	850	L1	Laboratory Rotation	Trivedi	Chinmay
1205	BBS	850	L1	Laboratory Rotation	Walhout	Albertha
2525	BBS	850	L1	Laboratory Rotation	Walker	Amy
2325	BBS	850	L1	Laboratory Rotation	Wang	Jennifer
2327	BBS	850	L1	Laboratory Rotation	Waring	Molly
2721	BBS	850	L1	Laboratory Rotation	Watts	Jonathan
1207	BBS	850	L1	Laboratory Rotation	Weaver	David
1209	BBS	850	L1	Laboratory Rotation	Welsh	Raymond

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
1211	BBS	850	L1	Laboratory Rotation	Weng	Zhiping
1223	BBS	850	L1	Laboratory Rotation	Wolfe	Scot
1213	BBS	850	L1	Laboratory Rotation	Woodland	Robert
2957	BBS	850	L1	Laboratory Rotation	Xiang	Yang
1215	BBS	850	L1	Laboratory Rotation	Xu	Zuoshang
2629	BBS	850	L1	Laboratory Rotation	Xue	Wen
2713	BBS	850	L1	Laboratory Rotation	Yu	Hong
1217	BBS	850	L1	Laboratory Rotation	Zamore	Phillip
1231	BBS	850	L1	Laboratory Rotation	Zeldovich	Konstantin
1219	BBS	850	L1	Laboratory Rotation	Zhang	Hong
1221	BBS	850	L1	Laboratory Rotation	ZHUGE	Ronghua
2999	BBS	850	L1	Laboratory Rotation	Zitzewitz	Jill
2563	BBS	850	L2	Laboratory Rotation	Alkema	Mark
2545	BBS	850	L2	Laboratory Rotation	Alonso	Laura
1245	BBS	850	L2	Laboratory Rotation	Ambros	Victor
2799	BBS	850	L2	Laboratory Rotation	ANACLET	Christelle
1247	BBS	850	L2	Laboratory Rotation	ANDERSON	Frederick Arthur
2669	BBS	850	L2	Laboratory Rotation	Aroian	Raffi
1249	BBS	850	L2	Laboratory Rotation	Aronin	Neil
3111	BBS	850	L2	Laboratory Rotation	Bach	Ingolf
1251	BBS	850	L2	Laboratory Rotation	Baehrecke	Eric
2329	BBS	850	L2	Laboratory Rotation	Bailey	Jeffrey
2609	BBS	850	L2	Laboratory Rotation	Behar	Samuel
2363	BBS	850	L2	Laboratory Rotation	Benanti	Jennifer
1475	BBS	850	L2	Laboratory Rotation	Benard	Claire
1253	BBS	850	L2	Laboratory Rotation	Berg	Leslie
2481	BBS	850	L2	Laboratory Rotation	Bergmann	Andreas
3754	BBS	850	L2	Laboratory Rotation	BOGUNOVIC	Milena
1255	BBS	850	L2	Laboratory Rotation	Bolon	Daniel
1463	BBS	850	L2	Laboratory Rotation	Bosco	Daryl

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2181	BBS	850	L2	Laboratory Rotation	Boyer	Edward
2177	BBS	850	L2	Laboratory Rotation	Brehm	Michael
2691	BBS	850	L2	Laboratory Rotation	Brewster	Robert
1467	BBS	850	L2	Laboratory Rotation	Brown	Robert
3746	BBS	850	L2	Laboratory Rotation	BUCCI	Vanni
1257	BBS	850	L2	Laboratory Rotation	Budnik	Vivian
2755	BBS	850	L2	Laboratory Rotation	BYRNE	Alexandra Catherine
1259	BBS	850	L2	Laboratory Rotation	Cantor	Sharon
1261	BBS	850	L2	Laboratory Rotation	Carruthers	Anthony
1263	BBS	850	L2	Laboratory Rotation	Castilla	Lucio
2717	BBS	850	L2	Laboratory Rotation	Cavacini	Lisa
2331	BBS	850	L2	Laboratory Rotation	Ceol	Craig
1265	BBS	850	L2	Laboratory Rotation	CHAN	Francis Ka Ming
1267	BBS	850	L2	Laboratory Rotation	Clapham	Paul
1269	BBS	850	L2	Laboratory Rotation	Clark	Robin
2215	BBS	850	L2	Laboratory Rotation	Cooper	Marcus
1271	BBS	850	L2	Laboratory Rotation	Corvera	Silvia
1273	BBS	850	L2	Laboratory Rotation	CZECH	Michael Paul
1275	BBS	850	L2	Laboratory Rotation	Davis	Roger
1277	BBS	850	L2	Laboratory Rotation	Dekker	Job
3099	BBS	850	L2	Laboratory Rotation	Donahue	John
1279	BBS	850	L2	Laboratory Rotation	EMERY	Patrick
2361	BBS	850	L2	Laboratory Rotation	Fazzio	Thomas
1281	BBS	850	L2	Laboratory Rotation	Finberg	Robert
1283	BBS	850	L2	Laboratory Rotation	Fitzgerald	Katherine
3716	BBS	850	L2	Laboratory Rotation	FITZGERALD	Thomas
1285	BBS	850	L2	Laboratory Rotation	Flotte	Terence
1287	BBS	850	L2	Laboratory Rotation	Francis	Michael
2443	BBS	850	L2	Laboratory Rotation	FREEDMAN	Jane
1289	BBS	850	L2	Laboratory Rotation	Freeman	Marc

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2383	BBS	850	L2	Laboratory Rotation	Futai	Kensuke
2333	BBS	850	L2	Laboratory Rotation	Gao	Fen-Biao
1293	BBS	850	L2	Laboratory Rotation	Gao	Guangping
2509	BBS	850	L2	Laboratory Rotation	Garber	Manuel
1291	BBS	850	L2	Laboratory Rotation	Gardner	Paul
1295	BBS	850	L2	Laboratory Rotation	GOLDBERG	Robert Joel
1297	BBS	850	L2	Laboratory Rotation	Golenbock	Douglas
1299	BBS	850	L2	Laboratory Rotation	Gottlinger	Heinrich
1301	BBS	850	L2	Laboratory Rotation	Gravallese	Ellen
3722	BBS	850	L2	Laboratory Rotation	GRAYEDWARDS	Heather Leigh
1303	BBS	850	L2	Laboratory Rotation	Green	Michael
2985	BBS	850	L2	Laboratory Rotation	GREER	Paul Lieberman
1305	BBS	850	L2	Laboratory Rotation	Greiner	Dale
2505	BBS	850	L2	Laboratory Rotation	Grunwald	David
2225	BBS	850	L2	Laboratory Rotation	Guertin	David
2377	BBS	850	L2	Laboratory Rotation	Han	Gang
2403	BBS	850	L2	Laboratory Rotation	Harris	John
2767	BBS	850	L2	Laboratory Rotation	Haynes	Cole
1307	BBS	850	L2	Laboratory Rotation	Hayward	Lawrence
1309	BBS	850	L2	Laboratory Rotation	Huseby	Eric
1311	BBS	850	L2	Laboratory Rotation	Imbalzano	Anthony
1313	BBS	850	L2	Laboratory Rotation	Ip	Yicktung
2795	BBS	850	L2	Laboratory Rotation	IRAZOQUI	Javier Elbio
1315	BBS	850	L2	Laboratory Rotation	Jacobson	Allan
3693	BBS	850	L2	Laboratory Rotation	JOHNSON	Mark Damone
1317	BBS	850	L2	Laboratory Rotation	Jones	Stephen
1319	BBS	850	L2	Laboratory Rotation	Kang	Joonsoo
2673	BBS	850	L2	Laboratory Rotation	Karlsson	Elinor
1321	BBS	850	L2	Laboratory Rotation	Kaufman	Paul
2335	BBS	850	L2	Laboratory Rotation	Keaney	John

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2589	BBS	850	L2	Laboratory Rotation	Kelch	Brian
1323	BBS	850	L2	Laboratory Rotation	Kelliher	Michelle
2405	BBS	850	L2	Laboratory Rotation	Kennedy	David
2261	BBS	850	L2	Laboratory Rotation	Khanna	Hemant
1005	BBS	850	L2	Laboratory Rotation	Khvorova	Anastasia
2303	BBS	850	L2	Laboratory Rotation	Kiefe	Catarina
2735	BBS	850	L2	Laboratory Rotation	Kim	Dohoон
1461	BBS	850	L2	Laboratory Rotation	Kim	Jason
1325	BBS	850	L2	Laboratory Rotation	King	Jean
1327	BBS	850	L2	Laboratory Rotation	Kobertz	William
1329	BBS	850	L2	Laboratory Rotation	Kornfeld	Hardy
2375	BBS	850	L2	Laboratory Rotation	Korostelev	Andrei
1331	BBS	850	L2	Laboratory Rotation	Kowalik	Timothy
1333	BBS	850	L2	Laboratory Rotation	Kurt-Jones	Evelyn
3027	BBS	850	L2	Laboratory Rotation	Lambright	David
1473	BBS	850	L2	Laboratory Rotation	Landers	John
2585	BBS	850	L2	Laboratory Rotation	Lane	Mary
1335	BBS	850	L2	Laboratory Rotation	Lawrence	Jeanne
1337	BBS	850	L2	Laboratory Rotation	Lawson	Nathan
2599	BBS	850	L2	Laboratory Rotation	Lee	Michael
1339	BBS	850	L2	Laboratory Rotation	Lee	Tzumin
1341	BBS	850	L2	Laboratory Rotation	Levitz	Stuart
1343	BBS	850	L2	Laboratory Rotation	Lewis	Brian
1345	BBS	850	L2	Laboratory Rotation	Li	Hong-Sheng
1459	BBS	850	L2	Laboratory Rotation	Li	Shaoguang
2989	BBS	850	L2	Laboratory Rotation	Li	Wenjun
1347	BBS	850	L2	Laboratory Rotation	Libraty	Daniel
1349	BBS	850	L2	Laboratory Rotation	Lien	Egil
2337	BBS	850	L2	Laboratory Rotation	Lois	Carlos
1351	BBS	850	L2	Laboratory Rotation	Lu	Shan

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2501	BBS	850	L2	Laboratory Rotation	Luban	Jeremy
1353	BBS	850	L2	Laboratory Rotation	Luckmann	Roger
2485	BBS	850	L2	Laboratory Rotation	Maehr	Rene
2305	BBS	850	L2	Laboratory Rotation	Mandrekar	Pranoti
1469	BBS	850	L2	Laboratory Rotation	Mao	Junhao
2179	BBS	850	L2	Laboratory Rotation	Martin	Gilles
1355	BBS	850	L2	Laboratory Rotation	Massi	Francesca
1357	BBS	850	L2	Laboratory Rotation	Matthews	Charles
1359	BBS	850	L2	Laboratory Rotation	McCollum	Dannel
1471	BBS	850	L2	Laboratory Rotation	McCormick	Beth
1361	BBS	850	L2	Laboratory Rotation	Melikian	Haley
1363	BBS	850	L2	Laboratory Rotation	Mello	Craig
1365	BBS	850	L2	Laboratory Rotation	Mercurio	Arthur
1367	BBS	850	L2	Laboratory Rotation	Miller	Stephen
2803	BBS	850	L2	Laboratory Rotation	MITCHELL	Amir Zadok
2993	BBS	850	L2	Laboratory Rotation	Moore	Constance
1369	BBS	850	L2	Laboratory Rotation	Moore	Melissa
2307	BBS	850	L2	Laboratory Rotation	Moormann	Ann
1371	BBS	850	L2	Laboratory Rotation	Morrison	Trudy
2455	BBS	850	L2	Laboratory Rotation	Muller	Christian
1373	BBS	850	L2	Laboratory Rotation	Munson	Maryann
1375	BBS	850	L2	Laboratory Rotation	Newburger	Peter
1377	BBS	850	L2	Laboratory Rotation	Ockene	Judith
2465	BBS	850	L2	Laboratory Rotation	Ortiz-Miranda	Sonia
1477	BBS	850	L2	Laboratory Rotation	Ostroff	Gary
3043	BBS	850	L2	Laboratory Rotation	PAI	Athma Anjali
1379	BBS	850	L2	Laboratory Rotation	Paydarfar	David
1381	BBS	850	L2	Laboratory Rotation	Pazour	Gregory
1383	BBS	850	L2	Laboratory Rotation	Peterson	Craig
1385	BBS	850	L2	Laboratory Rotation	Pryciak	Peter

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2677	BBS	850	L2	Laboratory Rotation	Pukkila-Worley	Read
2283	BBS	850	L2	Laboratory Rotation	Punzo	Claudio
1387	BBS	850	L2	Laboratory Rotation	Ram	Sanjay
1389	BBS	850	L2	Laboratory Rotation	Rando	Oliver
2763	BBS	850	L2	Laboratory Rotation	REBOLDI	Andrea
1391	BBS	850	L2	Laboratory Rotation	Reppert	Steven
1393	BBS	850	L2	Laboratory Rotation	Rhind	Nicholas
1395	BBS	850	L2	Laboratory Rotation	Richter	Joel
1397	BBS	850	L2	Laboratory Rotation	Rivera Perez	Jaime
1399	BBS	850	L2	Laboratory Rotation	Rock	Kenneth
2997	BBS	850	L2	Laboratory Rotation	Rogaev	Evgeny
1401	BBS	850	L2	Laboratory Rotation	Ross	Alonzo
2339	BBS	850	L2	Laboratory Rotation	Rothstein	Ann
1403	BBS	850	L2	Laboratory Rotation	Royer	William
1405	BBS	850	L2	Laboratory Rotation	Ruiz De Luzuriaga	Katherine
1407	BBS	850	L2	Laboratory Rotation	Ryder	Sean
1409	BBS	850	L2	Laboratory Rotation	Sagerstrom	Charles
1411	BBS	850	L2	Laboratory Rotation	Sassetti	Christopher
2731	BBS	850	L2	Laboratory Rotation	Schafer	Dorothy
1413	BBS	850	L2	Laboratory Rotation	Schiffer	Celia
1415	BBS	850	L2	Laboratory Rotation	Selin	Liisa
2301	BBS	850	L2	Laboratory Rotation	Sena Esteves	Miguel
3103	BBS	850	L2	Laboratory Rotation	Shaffer	Scott
1417	BBS	850	L2	Laboratory Rotation	Shaw	Leslie
3752	BBS	850	L2	Laboratory Rotation	SHEN	Kuang
2759	BBS	850	L2	Laboratory Rotation	Shim	Jae-Hyuck
3031	BBS	850	L2	Laboratory Rotation	SHOHET	Jason Matthew
1419	BBS	850	L2	Laboratory Rotation	Silverman	Neal
1421	BBS	850	L2	Laboratory Rotation	Sluder	Greenfield
1423	BBS	850	L2	Laboratory Rotation	Socolovsky	Merav

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
1425	BBS	850	L2	Laboratory Rotation	Song	Jie
2681	BBS	850	L2	Laboratory Rotation	Sontheimer	Erik
1427	BBS	850	L2	Laboratory Rotation	Stein	Gary
1429	BBS	850	L2	Laboratory Rotation	Stern	Lawrence
2259	BBS	850	L2	Laboratory Rotation	Swain	Susan
1431	BBS	850	L2	Laboratory Rotation	Szabo	Gyongyi
1433	BBS	850	L2	Laboratory Rotation	Tapper	Andrew
1435	BBS	850	L2	Laboratory Rotation	Theurkauf	William
2685	BBS	850	L2	Laboratory Rotation	Thompson	Paul
3731	BBS	850	L2	Laboratory Rotation	Thomson	Travis
1437	BBS	850	L2	Laboratory Rotation	Tissenbaum	Heidi
2299	BBS	850	L2	Laboratory Rotation	Torres	Eduardo
2541	BBS	850	L2	Laboratory Rotation	Trivedi	Chinmay
1439	BBS	850	L2	Laboratory Rotation	Walhout	Albertha
2527	BBS	850	L2	Laboratory Rotation	Walker	Amy
2341	BBS	850	L2	Laboratory Rotation	Wang	Jennifer
2723	BBS	850	L2	Laboratory Rotation	Watts	Jonathan
1441	BBS	850	L2	Laboratory Rotation	Weaver	David
1443	BBS	850	L2	Laboratory Rotation	Welsh	Raymond
1445	BBS	850	L2	Laboratory Rotation	Weng	Zhiping
1457	BBS	850	L2	Laboratory Rotation	Wolfe	Scot
1447	BBS	850	L2	Laboratory Rotation	Woodland	Robert
2951	BBS	850	L2	Laboratory Rotation	Xiang	Yang
1449	BBS	850	L2	Laboratory Rotation	Xu	Zuoshang
2627	BBS	850	L2	Laboratory Rotation	Xue	Wen
2711	BBS	850	L2	Laboratory Rotation	Yu	Hong
1451	BBS	850	L2	Laboratory Rotation	Zamore	Phillip
1465	BBS	850	L2	Laboratory Rotation	Zeldovich	Konstantin
1453	BBS	850	L2	Laboratory Rotation	Zhang	Hong
1455	BBS	850	L2	Laboratory Rotation	ZHUGE	Ronghua

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3001	BBS	850	L2	Laboratory Rotation	Zitzewitz	Jill
2565	BBS	870	1	Prequalifying Research	Alkema	Mark
2547	BBS	870	1	Prequalifying Research	Alonso	Laura
2567	BBS	870	1	Prequalifying Research	Ambros	Victor
2807	BBS	870	1	Prequalifying Research	ANACLET	Christelle
2657	BBS	870	1	Prequalifying Research	Aroian	Raffi
1593	BBS	870	1	Prequalifying Research	Aronin	Neil
3113	BBS	870	1	Prequalifying Research	Bach	Ingolf
1595	BBS	870	1	Prequalifying Research	Baehrecke	Eric
2253	BBS	870	1	Prequalifying Research	Bailey	Jeffrey
2581	BBS	870	1	Prequalifying Research	Behar	Samuel
2285	BBS	870	1	Prequalifying Research	Benanti	Jennifer
2201	BBS	870	1	Prequalifying Research	Benard	Claire
1597	BBS	870	1	Prequalifying Research	Berg	Leslie
2557	BBS	870	1	Prequalifying Research	Bergmann	Andreas
3708	BBS	870	1	Prequalifying Research	BOGUNOVIC	Milena
1599	BBS	870	1	Prequalifying Research	Bolon	Daniel
2125	BBS	870	1	Prequalifying Research	Bosco	Daryl
2187	BBS	870	1	Prequalifying Research	Boyer	Edward
2183	BBS	870	1	Prequalifying Research	Brehm	Michael
2693	BBS	870	1	Prequalifying Research	Brewster	Robert
2137	BBS	870	1	Prequalifying Research	Brown	Robert
1601	BBS	870	1	Prequalifying Research	Budnik	Vivian
2769	BBS	870	1	Prequalifying Research	BYRNE	Alexandra Catherine
1603	BBS	870	1	Prequalifying Research	Cantor	Sharon
1605	BBS	870	1	Prequalifying Research	Castilla	Lucio
2737	BBS	870	1	Prequalifying Research	Cavacini	Lisa
2247	BBS	870	1	Prequalifying Research	Ceol	Craig
1607	BBS	870	1	Prequalifying Research	CHAN	Francis Ka Ming
1609	BBS	870	1	Prequalifying Research	Clapham	Paul

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
1611	BBS	870	1	Prequalifying Research	Clark	Robin
2217	BBS	870	1	Prequalifying Research	Cooper	Marcus
1613	BBS	870	1	Prequalifying Research	Corvera	Silvia
1615	BBS	870	1	Prequalifying Research	CZECH	Michael Paul
1617	BBS	870	1	Prequalifying Research	Davis	Roger
1619	BBS	870	1	Prequalifying Research	Dekker	Job
1621	BBS	870	1	Prequalifying Research	EMERY	Patrick
2281	BBS	870	1	Prequalifying Research	Fazzio	Thomas
1623	BBS	870	1	Prequalifying Research	Finberg	Robert
1625	BBS	870	1	Prequalifying Research	Fitzgerald	Katherine
3717	BBS	870	1	Prequalifying Research	FITZGERALD	Thomas
1627	BBS	870	1	Prequalifying Research	Flotte	Terence
1629	BBS	870	1	Prequalifying Research	Francis	Michael
2445	BBS	870	1	Prequalifying Research	FREEDMAN	Jane
2389	BBS	870	1	Prequalifying Research	Futai	Kensuke
2273	BBS	870	1	Prequalifying Research	Gao	Fen-Biao
1633	BBS	870	1	Prequalifying Research	Gao	Guangping
2513	BBS	870	1	Prequalifying Research	Garber	Manuel
1631	BBS	870	1	Prequalifying Research	Gardner	Paul
1635	BBS	870	1	Prequalifying Research	GOLDBERG	Robert Joel
1637	BBS	870	1	Prequalifying Research	Golenbock	Douglas
1639	BBS	870	1	Prequalifying Research	Gottlinger	Heinrich
1641	BBS	870	1	Prequalifying Research	Gravallese	Ellen
3724	BBS	870	1	Prequalifying Research	GRAYEDWARDS	Heather Leigh
1643	BBS	870	1	Prequalifying Research	Green	Michael
3003	BBS	870	1	Prequalifying Research	GREER	Paul Lieberman
1645	BBS	870	1	Prequalifying Research	Greiner	Dale
2511	BBS	870	1	Prequalifying Research	Grunwald	David
2227	BBS	870	1	Prequalifying Research	Guertin	David
2379	BBS	870	1	Prequalifying Research	Han	Gang

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2409	BBS	870	1	Prequalifying Research	Harris	John
2775	BBS	870	1	Prequalifying Research	Haynes	Cole
1647	BBS	870	1	Prequalifying Research	Hayward	Lawrence
3696	BBS	870	1	Prequalifying Research	Henninger	Nils
1649	BBS	870	1	Prequalifying Research	Huseby	Eric
1651	BBS	870	1	Prequalifying Research	Imbalzano	Anthony
1653	BBS	870	1	Prequalifying Research	Ip	Yicktung
2805	BBS	870	1	Prequalifying Research	IRAZOQUI	Javier Elbio
1655	BBS	870	1	Prequalifying Research	Jacobson	Allan
3698	BBS	870	1	Prequalifying Research	JOHNSON	Mark Damone
1657	BBS	870	1	Prequalifying Research	Jones	Stephen
1659	BBS	870	1	Prequalifying Research	Kang	Joonsoo
2659	BBS	870	1	Prequalifying Research	Karlsson	Elinor
1661	BBS	870	1	Prequalifying Research	Kaufman	Paul
2591	BBS	870	1	Prequalifying Research	Kelch	Brian
1663	BBS	870	1	Prequalifying Research	Kelliher	Michelle
2407	BBS	870	1	Prequalifying Research	Kennedy	David
2373	BBS	870	1	Prequalifying Research	Khanna	Hemant
1007	BBS	870	1	Prequalifying Research	Khvorova	Anastasia
2739	BBS	870	1	Prequalifying Research	Kim	Dohoon
2123	BBS	870	1	Prequalifying Research	Kim	Jason
1665	BBS	870	1	Prequalifying Research	King	Jean
1667	BBS	870	1	Prequalifying Research	Kobertz	William
1669	BBS	870	1	Prequalifying Research	Kornfeld	Hardy
2269	BBS	870	1	Prequalifying Research	Korostelev	Andrei
1671	BBS	870	1	Prequalifying Research	Kowalik	Timothy
1673	BBS	870	1	Prequalifying Research	Kurt-Jones	Evelyn
2203	BBS	870	1	Prequalifying Research	Landers	John
2961	BBS	870	1	Prequalifying Research	Lane	Mary
1693	BBS	870	1	Prequalifying Research	Lawrence	Jeanne

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
1695	BBS	870	1	Prequalifying Research	Lawson	Nathan
2601	BBS	870	1	Prequalifying Research	Lee	Michael
1697	BBS	870	1	Prequalifying Research	Lee	Tzumin
1699	BBS	870	1	Prequalifying Research	Levitz	Stuart
1701	BBS	870	1	Prequalifying Research	Lewis	Brian
1703	BBS	870	1	Prequalifying Research	Li	Hong-Sheng
2117	BBS	870	1	Prequalifying Research	Li	Shaoguang
3005	BBS	870	1	Prequalifying Research	Li	Wenjun
1705	BBS	870	1	Prequalifying Research	Libraty	Daniel
1707	BBS	870	1	Prequalifying Research	Lien	Egil
2289	BBS	870	1	Prequalifying Research	Lois	Carlos
1709	BBS	870	1	Prequalifying Research	Lu	Shan
2497	BBS	870	1	Prequalifying Research	Luban	Jeremy
1711	BBS	870	1	Prequalifying Research	Luckmann	Roger
2487	BBS	870	1	Prequalifying Research	Maehr	Rene
2159	BBS	870	1	Prequalifying Research	Mandrekar	Pranoti
2139	BBS	870	1	Prequalifying Research	Mao	Junhao
2185	BBS	870	1	Prequalifying Research	Martin	Gilles
1713	BBS	870	1	Prequalifying Research	Massi	Francesca
1715	BBS	870	1	Prequalifying Research	Matthews	Charles
1717	BBS	870	1	Prequalifying Research	McCollum	Dannel
2141	BBS	870	1	Prequalifying Research	McCormick	Beth
1719	BBS	870	1	Prequalifying Research	Melikian	Haley
1721	BBS	870	1	Prequalifying Research	Mello	Craig
1723	BBS	870	1	Prequalifying Research	Mercurio	Arthur
1725	BBS	870	1	Prequalifying Research	Miller	Stephen
2809	BBS	870	1	Prequalifying Research	MITCHELL	Amir Zadok
1727	BBS	870	1	Prequalifying Research	Moore	Melissa
2161	BBS	870	1	Prequalifying Research	Moormann	Ann
1729	BBS	870	1	Prequalifying Research	Morrison	Trudy

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2457	BBS	870	1	Prequalifying Research	Muller	Christian
1731	BBS	870	1	Prequalifying Research	Munson	Maryann
1733	BBS	870	1	Prequalifying Research	Newburger	Peter
1735	BBS	870	1	Prequalifying Research	Ockene	Judith
2469	BBS	870	1	Prequalifying Research	Ortiz-Miranda	Sonia
2311	BBS	870	1	Prequalifying Research	Ostroff	Gary
3045	BBS	870	1	Prequalifying Research	PAI	Athma Anjali
1737	BBS	870	1	Prequalifying Research	Paydarfar	David
1739	BBS	870	1	Prequalifying Research	Pazour	Gregory
1741	BBS	870	1	Prequalifying Research	Peterson	Craig
1743	BBS	870	1	Prequalifying Research	Pryciak	Peter
2661	BBS	870	1	Prequalifying Research	Pukkila-Worley	Read
2411	BBS	870	1	Prequalifying Research	Punzo	Claudio
1745	BBS	870	1	Prequalifying Research	Ram	Sanjay
1747	BBS	870	1	Prequalifying Research	Rando	Oliver
2773	BBS	870	1	Prequalifying Research	REBOLDI	Andrea
1749	BBS	870	1	Prequalifying Research	Rhind	Nicholas
1751	BBS	870	1	Prequalifying Research	Richter	Joel
1753	BBS	870	1	Prequalifying Research	Rivera Perez	Jaime
1755	BBS	870	1	Prequalifying Research	Rock	Kenneth
3007	BBS	870	1	Prequalifying Research	Rogaev	Evgeny
1757	BBS	870	1	Prequalifying Research	Ross	Alonzo
2245	BBS	870	1	Prequalifying Research	Rothstein	Ann
1759	BBS	870	1	Prequalifying Research	Royer	William
1761	BBS	870	1	Prequalifying Research	Ruiz De Luzuriaga	Katherine
1785	BBS	870	1	Prequalifying Research	Ryder	Sean
1787	BBS	870	1	Prequalifying Research	Sagerstrom	Charles
1789	BBS	870	1	Prequalifying Research	Sassetti	Christopher
2697	BBS	870	1	Prequalifying Research	Schafer	Dorothy
1791	BBS	870	1	Prequalifying Research	Schiffer	Celia

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
1807	BBS	870	1	Prequalifying Research	Selin	Liisa
2235	BBS	870	1	Prequalifying Research	Sena Esteves	Miguel
1793	BBS	870	1	Prequalifying Research	Shaw	Leslie
3755	BBS	870	1	Prequalifying Research	SHEN	Kuang
2771	BBS	870	1	Prequalifying Research	Shim	Jae-Hyuck
3033	BBS	870	1	Prequalifying Research	SHOHET	Jason Matthew
1795	BBS	870	1	Prequalifying Research	Silverman	Neal
1797	BBS	870	1	Prequalifying Research	Sluder	Greenfield
1799	BBS	870	1	Prequalifying Research	Socolovsky	Merav
1801	BBS	870	1	Prequalifying Research	Song	Jie
2663	BBS	870	1	Prequalifying Research	Sontheimer	Erik
1803	BBS	870	1	Prequalifying Research	Stein	Gary
1805	BBS	870	1	Prequalifying Research	Stern	Lawrence
2451	BBS	870	1	Prequalifying Research	Swain	Susan
1831	BBS	870	1	Prequalifying Research	Szabo	Gyongyi
2115	BBS	870	1	Prequalifying Research	Tapper	Andrew
1833	BBS	870	1	Prequalifying Research	Theurkauf	William
2665	BBS	870	1	Prequalifying Research	Thompson	Paul
3732	BBS	870	1	Prequalifying Research	Thomson	Travis
1835	BBS	870	1	Prequalifying Research	Tissenbaum	Heidi
2309	BBS	870	1	Prequalifying Research	Torres	Eduardo
2523	BBS	870	1	Prequalifying Research	Trivedi	Chinmay
1837	BBS	870	1	Prequalifying Research	Walhout	Albertha
2529	BBS	870	1	Prequalifying Research	Walker	Amy
2343	BBS	870	1	Prequalifying Research	Wang	Jennifer
2345	BBS	870	1	Prequalifying Research	Waring	Molly
2725	BBS	870	1	Prequalifying Research	Watts	Jonathan
1839	BBS	870	1	Prequalifying Research	Weaver	David
1841	BBS	870	1	Prequalifying Research	Welsh	Raymond
1843	BBS	870	1	Prequalifying Research	Weng	Zhiping

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
1845	BBS	870	1	Prequalifying Research	Wolfe	Scot
1847	BBS	870	1	Prequalifying Research	Woodland	Robert
2263	BBS	870	1	Prequalifying Research	Xiang	Yang
1849	BBS	870	1	Prequalifying Research	Xu	Zuoshang
2631	BBS	870	1	Prequalifying Research	Xue	Wen
2963	BBS	870	1	Prequalifying Research	Yu	Hong
1851	BBS	870	1	Prequalifying Research	Zamore	Phillip
2135	BBS	870	1	Prequalifying Research	Zeldovich	Konstantin
1853	BBS	870	1	Prequalifying Research	Zhang	Hong
1855	BBS	870	1	Prequalifying Research	ZHUGE	Ronghua
1591	BBS	870	1	Prequalifying Research	Ziedonis	Douglas
3009	BBS	870	1	Prequalifying Research	Zitzewitz	Jill
2569	BBS	900	1	Thesis Research	Alkema	Mark
2549	BBS	900	1	Thesis Research	Alonso	Laura
2571	BBS	900	1	Thesis Research	Ambros	Victor
2813	BBS	900	1	Thesis Research	ANACLET	Christelle
2647	BBS	900	1	Thesis Research	Aroian	Raffi
1487	BBS	900	1	Thesis Research	Aronin	Neil
3115	BBS	900	1	Thesis Research	Bach	Ingolf
1489	BBS	900	1	Thesis Research	Baehrecke	Eric
2255	BBS	900	1	Thesis Research	Bailey	Jeffrey
2623	BBS	900	1	Thesis Research	Behar	Samuel
2365	BBS	900	1	Thesis Research	Benanti	Jennifer
2205	BBS	900	1	Thesis Research	Benard	Claire
1491	BBS	900	1	Thesis Research	Berg	Leslie
2555	BBS	900	1	Thesis Research	Bergmann	Andreas
3709	BBS	900	1	Thesis Research	BOGUNOVIC	Milena
1493	BBS	900	1	Thesis Research	Bolon	Daniel
2129	BBS	900	1	Thesis Research	Bosco	Daryl
3021	BBS	900	1	Thesis Research	Boudreaux	Edwin

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2199	BBS	900	1	Thesis Research	Boyer	Edward
2195	BBS	900	1	Thesis Research	Brehm	Michael
2699	BBS	900	1	Thesis Research	Brewster	Robert
2145	BBS	900	1	Thesis Research	Brown	Robert
1495	BBS	900	1	Thesis Research	Budnik	Vivian
2777	BBS	900	1	Thesis Research	BYRNE	Alexandra Catherine
1497	BBS	900	1	Thesis Research	Cantor	Sharon
1499	BBS	900	1	Thesis Research	Castilla	Lucio
2741	BBS	900	1	Thesis Research	Cavacini	Lisa
2249	BBS	900	1	Thesis Research	Ceol	Craig
1501	BBS	900	1	Thesis Research	CHAN	Francis Ka Ming
1505	BBS	900	1	Thesis Research	Clapham	Paul
1507	BBS	900	1	Thesis Research	Clark	Robin
2219	BBS	900	1	Thesis Research	Cooper	Marcus
1509	BBS	900	1	Thesis Research	Corvera	Silvia
1511	BBS	900	1	Thesis Research	CZECH	Michael Paul
1513	BBS	900	1	Thesis Research	Davis	Roger
1515	BBS	900	1	Thesis Research	Dekker	Job
1517	BBS	900	1	Thesis Research	EMERY	Patrick
2367	BBS	900	1	Thesis Research	Fazzio	Thomas
1519	BBS	900	1	Thesis Research	Finberg	Robert
3107	BBS	900	1	Thesis Research	Fitzgerald	Katherine
3718	BBS	900	1	Thesis Research	FITZGERALD	Thomas
1521	BBS	900	1	Thesis Research	Flotte	Terence
1523	BBS	900	1	Thesis Research	Francis	Michael
2447	BBS	900	1	Thesis Research	FREEDMAN	Jane
1525	BBS	900	1	Thesis Research	Freeman	Marc
2385	BBS	900	1	Thesis Research	Futai	Kensuke
2275	BBS	900	1	Thesis Research	Gao	Fen-Biao
1529	BBS	900	1	Thesis Research	Gao	Guangping

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2517	BBS	900	1	Thesis Research	Garber	Manuel
1527	BBS	900	1	Thesis Research	Gardner	Paul
1531	BBS	900	1	Thesis Research	GOLDBERG	Robert Joel
1533	BBS	900	1	Thesis Research	Golenbock	Douglas
1535	BBS	900	1	Thesis Research	Gottlinger	Heinrich
1537	BBS	900	1	Thesis Research	Gravallese	Ellen
3726	BBS	900	1	Thesis Research	GRAYEDWARDS	Heather Leigh
1539	BBS	900	1	Thesis Research	Green	Michael
3011	BBS	900	1	Thesis Research	GREER	Paul Lieberman
2515	BBS	900	1	Thesis Research	Grunwald	David
2229	BBS	900	1	Thesis Research	Guertin	David
2417	BBS	900	1	Thesis Research	Han	Gang
2415	BBS	900	1	Thesis Research	Harris	John
2783	BBS	900	1	Thesis Research	Haynes	Cole
1541	BBS	900	1	Thesis Research	Hayward	Lawrence
3748	BBS	900	1	Thesis Research	Henninger	Nils
1543	BBS	900	1	Thesis Research	Huseby	Eric
1545	BBS	900	1	Thesis Research	Imbalzano	Anthony
1547	BBS	900	1	Thesis Research	Ip	Yicktung
2811	BBS	900	1	Thesis Research	IRAZOQUI	Javier Elbio
1549	BBS	900	1	Thesis Research	Jacobson	Allan
3702	BBS	900	1	Thesis Research	JOHNSON	Mark Damone
1551	BBS	900	1	Thesis Research	Jones	Stephen
1553	BBS	900	1	Thesis Research	Kang	Joonsoo
2649	BBS	900	1	Thesis Research	Karlsson	Elinor
1555	BBS	900	1	Thesis Research	Kaufman	Paul
2593	BBS	900	1	Thesis Research	Kelch	Brian
1891	BBS	900	1	Thesis Research	Kelliher	Michelle
2413	BBS	900	1	Thesis Research	Kennedy	David
2419	BBS	900	1	Thesis Research	Khanna	Hemant

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
1009	BBS	900	1	Thesis Research	Khvorova	Anastasia
2743	BBS	900	1	Thesis Research	Kim	Dohoon
2127	BBS	900	1	Thesis Research	Kim	Jason
1557	BBS	900	1	Thesis Research	Kobertz	William
1559	BBS	900	1	Thesis Research	Kornfeld	Hardy
2439	BBS	900	1	Thesis Research	Korostelev	Andrei
1561	BBS	900	1	Thesis Research	Kowalik	Timothy
1563	BBS	900	1	Thesis Research	Kurt-Jones	Evelyn
2207	BBS	900	1	Thesis Research	Landers	John
2537	BBS	900	1	Thesis Research	Lane	Mary
1565	BBS	900	1	Thesis Research	Lawrence	Jeanne
1567	BBS	900	1	Thesis Research	Lawson	Nathan
2603	BBS	900	1	Thesis Research	Lee	Michael
1569	BBS	900	1	Thesis Research	Lee	Tzumin
1571	BBS	900	1	Thesis Research	Levitz	Stuart
1573	BBS	900	1	Thesis Research	Lewis	Brian
1575	BBS	900	1	Thesis Research	Li	Hong-Sheng
2119	BBS	900	1	Thesis Research	Li	Shaoguang
3013	BBS	900	1	Thesis Research	Li	Wenjun
1577	BBS	900	1	Thesis Research	Libraty	Daniel
1579	BBS	900	1	Thesis Research	Lien	Egil
2291	BBS	900	1	Thesis Research	Lois	Carlos
1581	BBS	900	1	Thesis Research	Lu	Shan
2495	BBS	900	1	Thesis Research	Luban	Jeremy
1583	BBS	900	1	Thesis Research	Luckmann	Roger
2489	BBS	900	1	Thesis Research	Maehr	Rene
2163	BBS	900	1	Thesis Research	Mandrekar	Pranoti
2147	BBS	900	1	Thesis Research	Mao	Junhao
2197	BBS	900	1	Thesis Research	Martin	Gilles
1585	BBS	900	1	Thesis Research	Massi	Francesca

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
1587	BBS	900	1	Thesis Research	Matthews	Charles
1589	BBS	900	1	Thesis Research	McCollum	Dannel
2149	BBS	900	1	Thesis Research	McCormick	Beth
1675	BBS	900	1	Thesis Research	Melikian	Haley
1677	BBS	900	1	Thesis Research	Mello	Craig
1679	BBS	900	1	Thesis Research	Mercurio	Arthur
1681	BBS	900	1	Thesis Research	Miller	Stephen
2815	BBS	900	1	Thesis Research	MITCHELL	Amir Zadok
2471	BBS	900	1	Thesis Research	Moore	Constance
1683	BBS	900	1	Thesis Research	Moore	Melissa
2165	BBS	900	1	Thesis Research	Moormann	Ann
1685	BBS	900	1	Thesis Research	Morrison	Trudy
2459	BBS	900	1	Thesis Research	Muller	Christian
1687	BBS	900	1	Thesis Research	Munson	Maryann
1689	BBS	900	1	Thesis Research	Newburger	Peter
1691	BBS	900	1	Thesis Research	Ockene	Judith
2473	BBS	900	1	Thesis Research	Ortiz-Miranda	Sonia
2313	BBS	900	1	Thesis Research	Ostroff	Gary
3047	BBS	900	1	Thesis Research	PAI	Athma Anjali
1763	BBS	900	1	Thesis Research	Paydarfar	David
1765	BBS	900	1	Thesis Research	Pazour	Gregory
1767	BBS	900	1	Thesis Research	Peterson	Craig
1769	BBS	900	1	Thesis Research	Pryciak	Peter
2651	BBS	900	1	Thesis Research	Pukkila-Worley	Read
2421	BBS	900	1	Thesis Research	Punzo	Claudio
1771	BBS	900	1	Thesis Research	Ram	Sanjay
1773	BBS	900	1	Thesis Research	Rando	Oliver
2781	BBS	900	1	Thesis Research	REBOLDI	Andrea
1775	BBS	900	1	Thesis Research	Rhind	Nicholas
1777	BBS	900	1	Thesis Research	Richter	Joel

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
1779	BBS	900	1	Thesis Research	Rivera Perez	Jaime
1781	BBS	900	1	Thesis Research	Rock	Kenneth
3015	BBS	900	1	Thesis Research	Rogaev	Evgeny
1783	BBS	900	1	Thesis Research	Ross	Alonzo
2347	BBS	900	1	Thesis Research	Rothstein	Ann
1809	BBS	900	1	Thesis Research	Royer	William
1811	BBS	900	1	Thesis Research	Ruiz De Luzuriaga	Katherine
1813	BBS	900	1	Thesis Research	Ryder	Sean
1815	BBS	900	1	Thesis Research	Sagerstrom	Charles
1817	BBS	900	1	Thesis Research	Sassetti	Christopher
2701	BBS	900	1	Thesis Research	Schafer	Dorothy
1819	BBS	900	1	Thesis Research	Schiffer	Celia
1821	BBS	900	1	Thesis Research	Selin	Liisa
2237	BBS	900	1	Thesis Research	Sena Esteves	Miguel
1823	BBS	900	1	Thesis Research	Shaw	Leslie
3756	BBS	900	1	Thesis Research	SHEN	Kuang
2779	BBS	900	1	Thesis Research	Shim	Jae-Hyuck
3035	BBS	900	1	Thesis Research	SHOHET	Jason Matthew
1825	BBS	900	1	Thesis Research	Silverman	Neal
1827	BBS	900	1	Thesis Research	Sluder	Greenfield
1829	BBS	900	1	Thesis Research	Socolovsky	Merav
1857	BBS	900	1	Thesis Research	Song	Jie
2653	BBS	900	1	Thesis Research	Sontheimer	Erik
1859	BBS	900	1	Thesis Research	Stein	Gary
1861	BBS	900	1	Thesis Research	Stern	Lawrence
2423	BBS	900	1	Thesis Research	Swain	Susan
1863	BBS	900	1	Thesis Research	Szabo	Gyongyi
1865	BBS	900	1	Thesis Research	Tapper	Andrew
1867	BBS	900	1	Thesis Research	Theurkauf	William
2655	BBS	900	1	Thesis Research	Thompson	Paul

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3734	BBS	900	1	Thesis Research	Thomson	Travis
1869	BBS	900	1	Thesis Research	Tissenbaum	Heidi
1503	BBS	900	1	Thesis Research	Torres	Eduardo
2573	BBS	900	1	Thesis Research	Trivedi	Chinmay
1871	BBS	900	1	Thesis Research	Walhout	Albertha
2531	BBS	900	1	Thesis Research	Walker	Amy
2349	BBS	900	1	Thesis Research	Wang	Jennifer
2351	BBS	900	1	Thesis Research	Waring	Molly
2727	BBS	900	1	Thesis Research	Watts	Jonathan
1873	BBS	900	1	Thesis Research	Weaver	David
1875	BBS	900	1	Thesis Research	Welsh	Raymond
1877	BBS	900	1	Thesis Research	Weng	Zhiping
1879	BBS	900	1	Thesis Research	Wolfe	Scot
1881	BBS	900	1	Thesis Research	Woodland	Robert
2265	BBS	900	1	Thesis Research	Xiang	Yang
1883	BBS	900	1	Thesis Research	Xu	Zuoshang
2633	BBS	900	1	Thesis Research	Xue	Wen
2965	BBS	900	1	Thesis Research	Yu	Hong
1885	BBS	900	1	Thesis Research	Zamore	Phillip
2143	BBS	900	1	Thesis Research	Zeldovich	Konstantin
1887	BBS	900	1	Thesis Research	Zhang	Hong
1889	BBS	900	1	Thesis Research	ZHUGE	Ronghua
1485	BBS	900	1	Thesis Research	Ziedonis	Douglas
3017	BBS	900	1	Thesis Research	Zitzewitz	Jill
2575	BBS	990	1	Graduate Research	Alkema	Mark
2551	BBS	990	1	Graduate Research	Alonso	Laura
2577	BBS	990	1	Graduate Research	Ambros	Victor
2819	BBS	990	1	Graduate Research	ANACLET	Christelle
2637	BBS	990	1	Graduate Research	Aroian	Raffi
1895	BBS	990	1	Graduate Research	Aronin	Neil

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3117	BBS	990	1	Graduate Research	Bach	Ingolf
1897	BBS	990	1	Graduate Research	Baehrecke	Eric
2257	BBS	990	1	Graduate Research	Bailey	Jeffrey
2625	BBS	990	1	Graduate Research	Behar	Samuel
2369	BBS	990	1	Graduate Research	Benanti	Jennifer
2209	BBS	990	1	Graduate Research	Benard	Claire
1899	BBS	990	1	Graduate Research	Berg	Leslie
2559	BBS	990	1	Graduate Research	Bergmann	Andreas
3710	BBS	990	1	Graduate Research	BOGUNOVIC	Milena
1901	BBS	990	1	Graduate Research	Bolon	Daniel
2133	BBS	990	1	Graduate Research	Bosco	Daryl
2193	BBS	990	1	Graduate Research	Boyer	Edward
2189	BBS	990	1	Graduate Research	Brehm	Michael
2703	BBS	990	1	Graduate Research	Brewster	Robert
2153	BBS	990	1	Graduate Research	Brown	Robert
1903	BBS	990	1	Graduate Research	Budnik	Vivian
2785	BBS	990	1	Graduate Research	BYRNE	Alexandra Catherine
1905	BBS	990	1	Graduate Research	Cantor	Sharon
1907	BBS	990	1	Graduate Research	Castilla	Lucio
2745	BBS	990	1	Graduate Research	Cavacini	Lisa
2251	BBS	990	1	Graduate Research	Ceol	Craig
1909	BBS	990	1	Graduate Research	CHAN	Francis Ka Ming
1913	BBS	990	1	Graduate Research	Clapham	Paul
1915	BBS	990	1	Graduate Research	Clark	Robin
2221	BBS	990	1	Graduate Research	Cooper	Marcus
1917	BBS	990	1	Graduate Research	Corvera	Silvia
1919	BBS	990	1	Graduate Research	CZECH	Michael Paul
1921	BBS	990	1	Graduate Research	Davis	Roger
1923	BBS	990	1	Graduate Research	Dekker	Job
1925	BBS	990	1	Graduate Research	EMERY	Patrick

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2371	BBS	990	1	Graduate Research	Fazzio	Thomas
1927	BBS	990	1	Graduate Research	Finberg	Robert
1929	BBS	990	1	Graduate Research	Fitzgerald	Katherine
3719	BBS	990	1	Graduate Research	FITZGERALD	Thomas
1931	BBS	990	1	Graduate Research	Flotte	Terence
1933	BBS	990	1	Graduate Research	Francis	Michael
2449	BBS	990	1	Graduate Research	FREEDMAN	Jane
1935	BBS	990	1	Graduate Research	Freeman	Marc
2387	BBS	990	1	Graduate Research	Futai	Kensuke
2277	BBS	990	1	Graduate Research	Gao	Fen-Biao
1939	BBS	990	1	Graduate Research	Gao	Guangping
2521	BBS	990	1	Graduate Research	Garber	Manuel
1937	BBS	990	1	Graduate Research	Gardner	Paul
3119	BBS	990	1	Graduate Research	Gilmore	James
1941	BBS	990	1	Graduate Research	GOLDBERG	Robert Joel
1943	BBS	990	1	Graduate Research	Golenbock	Douglas
1945	BBS	990	1	Graduate Research	Gottlinger	Heinrich
1947	BBS	990	1	Graduate Research	Gravallese	Ellen
3728	BBS	990	1	Graduate Research	GRAYEDWARDS	Heather Leigh
1949	BBS	990	1	Graduate Research	Green	Michael
2977	BBS	990	1	Graduate Research	GREER	Paul Lieberman
1951	BBS	990	1	Graduate Research	Greiner	Dale
2519	BBS	990	1	Graduate Research	Grunwald	David
2231	BBS	990	1	Graduate Research	Guertin	David
2429	BBS	990	1	Graduate Research	Han	Gang
2427	BBS	990	1	Graduate Research	Harris	John
2791	BBS	990	1	Graduate Research	Haynes	Cole
1953	BBS	990	1	Graduate Research	Hayward	Lawrence
3704	BBS	990	1	Graduate Research	Henninger	Nils
1955	BBS	990	1	Graduate Research	Huseby	Eric

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
1957	BBS	990	1	Graduate Research	Imbalzano	Anthony
1959	BBS	990	1	Graduate Research	Ip	Yicktung
2817	BBS	990	1	Graduate Research	IRAZOQUI	Javier Elbio
1961	BBS	990	1	Graduate Research	Jacobson	Allan
3705	BBS	990	1	Graduate Research	JOHNSON	Mark Damone
1963	BBS	990	1	Graduate Research	Jones	Stephen
1965	BBS	990	1	Graduate Research	Kang	Joonsoo
2639	BBS	990	1	Graduate Research	Karlsson	Elinor
1967	BBS	990	1	Graduate Research	Kaufman	Paul
2715	BBS	990	1	Graduate Research	Keaney	John
2595	BBS	990	1	Graduate Research	Kelch	Brian
1969	BBS	990	1	Graduate Research	Kelliher	Michelle
2475	BBS	990	1	Graduate Research	Kennedy	David
2431	BBS	990	1	Graduate Research	Khanna	Hemant
1011	BBS	990	1	Graduate Research	Khvorova	Anastasia
2747	BBS	990	1	Graduate Research	Kim	Dohoon
2131	BBS	990	1	Graduate Research	Kim	Jason
1971	BBS	990	1	Graduate Research	King	Jean
1973	BBS	990	1	Graduate Research	Kobertz	William
1975	BBS	990	1	Graduate Research	Kornfeld	Hardy
2441	BBS	990	1	Graduate Research	Korostelev	Andrei
1977	BBS	990	1	Graduate Research	Kowalik	Timothy
1979	BBS	990	1	Graduate Research	Kurt-Jones	Evelyn
2211	BBS	990	1	Graduate Research	Landers	John
1981	BBS	990	1	Graduate Research	Lawrence	Jeanne
1983	BBS	990	1	Graduate Research	Lawson	Nathan
2605	BBS	990	1	Graduate Research	Lee	Michael
1985	BBS	990	1	Graduate Research	Lee	Tzumin
1987	BBS	990	1	Graduate Research	Levitz	Stuart
1989	BBS	990	1	Graduate Research	Lewis	Brian

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
1991	BBS	990	1	Graduate Research	Li	Hong-Sheng
2121	BBS	990	1	Graduate Research	Li	Shaoguang
2979	BBS	990	1	Graduate Research	Li	Wenjun
1993	BBS	990	1	Graduate Research	Libraty	Daniel
1995	BBS	990	1	Graduate Research	Lien	Egil
2293	BBS	990	1	Graduate Research	Lois	Carlos
1997	BBS	990	1	Graduate Research	Lu	Shan
2493	BBS	990	1	Graduate Research	Luban	Jeremy
1999	BBS	990	1	Graduate Research	Luckmann	Roger
2491	BBS	990	1	Graduate Research	Maehr	Rene
2167	BBS	990	1	Graduate Research	Mandrekar	Pranoti
2155	BBS	990	1	Graduate Research	Mao	Junhao
2191	BBS	990	1	Graduate Research	Martin	Gilles
2001	BBS	990	1	Graduate Research	Massi	Francesca
2003	BBS	990	1	Graduate Research	Matthews	Charles
2005	BBS	990	1	Graduate Research	McCollum	Dannel
2157	BBS	990	1	Graduate Research	McCormick	Beth
2007	BBS	990	1	Graduate Research	Melikian	Haley
2009	BBS	990	1	Graduate Research	Mello	Craig
2011	BBS	990	1	Graduate Research	Mercurio	Arthur
2013	BBS	990	1	Graduate Research	Miller	Stephen
2821	BBS	990	1	Graduate Research	MITCHELL	Amir Zadok
2425	BBS	990	1	Graduate Research	Moore	Constance
2015	BBS	990	1	Graduate Research	Moore	Melissa
2169	BBS	990	1	Graduate Research	Moormann	Ann
2017	BBS	990	1	Graduate Research	Morrison	Trudy
2461	BBS	990	1	Graduate Research	Muller	Christian
2019	BBS	990	1	Graduate Research	Munson	Maryann
2021	BBS	990	1	Graduate Research	Newburger	Peter
2023	BBS	990	1	Graduate Research	Ockene	Judith

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2477	BBS	990	1	Graduate Research	Ortiz-Miranda	Sonia
2315	BBS	990	1	Graduate Research	Ostroff	Gary
3049	BBS	990	1	Graduate Research	PAI	Athma Anjali
2025	BBS	990	1	Graduate Research	Paydarfar	David
2027	BBS	990	1	Graduate Research	Pazour	Gregory
2029	BBS	990	1	Graduate Research	Peterson	Craig
2031	BBS	990	1	Graduate Research	Pryciak	Peter
2641	BBS	990	1	Graduate Research	Pukkila-Worley	Read
2433	BBS	990	1	Graduate Research	Punzo	Claudio
2033	BBS	990	1	Graduate Research	Ram	Sanjay
2035	BBS	990	1	Graduate Research	Rando	Oliver
2789	BBS	990	1	Graduate Research	REBOLDI	Andrea
2037	BBS	990	1	Graduate Research	Rhind	Nicholas
2039	BBS	990	1	Graduate Research	Richter	Joel
2041	BBS	990	1	Graduate Research	Rivera Perez	Jaime
2043	BBS	990	1	Graduate Research	Rock	Kenneth
2981	BBS	990	1	Graduate Research	Rogaev	Evgeny
2045	BBS	990	1	Graduate Research	Ross	Alonzo
2353	BBS	990	1	Graduate Research	Rothstein	Ann
2047	BBS	990	1	Graduate Research	Royer	William
2049	BBS	990	1	Graduate Research	Ruiz De Luzuriaga	Katherine
2051	BBS	990	1	Graduate Research	Ryder	Sean
2053	BBS	990	1	Graduate Research	Sagerstrom	Charles
2055	BBS	990	1	Graduate Research	Sassetti	Christopher
2705	BBS	990	1	Graduate Research	Schafer	Dorothy
2057	BBS	990	1	Graduate Research	Schiffer	Celia
2059	BBS	990	1	Graduate Research	Selin	Liisa
2239	BBS	990	1	Graduate Research	Sena Esteves	Miguel
2061	BBS	990	1	Graduate Research	Shaw	Leslie
3757	BBS	990	1	Graduate Research	SHEN	Kuang

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2787	BBS	990	1	Graduate Research	Shim	Jae-Hyuck
2063	BBS	990	1	Graduate Research	Silverman	Neal
2065	BBS	990	1	Graduate Research	Sluder	Greenfield
2067	BBS	990	1	Graduate Research	Socolovsky	Merav
2069	BBS	990	1	Graduate Research	Song	Jie
2643	BBS	990	1	Graduate Research	Sontheimer	Erik
2071	BBS	990	1	Graduate Research	Stein	Gary
2073	BBS	990	1	Graduate Research	Stern	Lawrence
2435	BBS	990	1	Graduate Research	Swain	Susan
2075	BBS	990	1	Graduate Research	Szabo	Gyongyi
2077	BBS	990	1	Graduate Research	Tapper	Andrew
2079	BBS	990	1	Graduate Research	Theurkauf	William
2645	BBS	990	1	Graduate Research	Thompson	Paul
3736	BBS	990	1	Graduate Research	Thomson	Travis
2081	BBS	990	1	Graduate Research	Tissenbaum	Heidi
1911	BBS	990	1	Graduate Research	Torres	Eduardo
2579	BBS	990	1	Graduate Research	Trivedi	Chinmay
2083	BBS	990	1	Graduate Research	Walhout	Albertha
2533	BBS	990	1	Graduate Research	Walker	Amy
2355	BBS	990	1	Graduate Research	Wang	Jennifer
2357	BBS	990	1	Graduate Research	Waring	Molly
2729	BBS	990	1	Graduate Research	Watts	Jonathan
2085	BBS	990	1	Graduate Research	Weaver	David
2087	BBS	990	1	Graduate Research	Welsh	Raymond
2089	BBS	990	1	Graduate Research	Weng	Zhiping
2091	BBS	990	1	Graduate Research	Wolfe	Scot
2093	BBS	990	1	Graduate Research	Woodland	Robert
2267	BBS	990	1	Graduate Research	Xiang	Yang
2095	BBS	990	1	Graduate Research	Xu	Zuoshang
2635	BBS	990	1	Graduate Research	Xue	Wen

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2967	BBS	990	1	Graduate Research	Yu	Hong
2097	BBS	990	1	Graduate Research	Zamore	Phillip
2151	BBS	990	1	Graduate Research	Zeldovich	Konstantin
2099	BBS	990	1	Graduate Research	Zhang	Hong
2101	BBS	990	1	Graduate Research	ZHUGE	Ronghua
1893	BBS	990	1	Graduate Research	Ziedonis	Douglas

## Clinical & Translational Science non-Research Class Numbers

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3775	CTS	611	CPH	Scientific Writing	GOLDBERG	Robert Joel
3776	CTS	716	CPH	Adv Anal Mthds Hlth Outcome St	ALCUSKY	Matthew James
3688	CTS	717	CPH	Randomized Clin. Trials BEHRes	Dube	Catherine
3777	CTS	721	CPH	Infectious DiseaseEpidemiology	Moormann	Ann
3689	CTS	727	CPH	Use Exist.Pop.Based PHLth Data	LIU	Shao-Hsien
3383	CTS	799	CPH	Independent Study	Aidlen	Jeremy
3271	CTS	799	CPH	Independent Study	Alavi	Karim
3778	CTS	799	CPH	Independent Study	ALCUSKY	Matthew James
3267	CTS	799	CPH	Independent Study	Allison	Jeroan
3787	CTS	799	CPH	Independent Study	Baek	Jonggyu
3367	CTS	799	CPH	Independent Study	Epstein	Mara
3281	CTS	799	CPH	Independent Study	Fang	Hua
3788	CTS	799	CPH	Independent Study	Forrester	Sarah
3319	CTS	799	CPH	Independent Study	GOLDBERG	Robert Joel
3269	CTS	799	CPH	Independent Study	Jesdale	William
3317	CTS	799	CPH	Independent Study	Lapane	Kate
3315	CTS	799	CPH	Independent Study	Lemon	Stephenie
3489	CTS	799	CPH	Independent Study	LIU	Shao-Hsien
3381	CTS	799	CPH	Independent Study	Ma	Yunsheng
3779	CTS	799	CPH	Independent Study	Moore Simas	Tiffany
3780	CTS	799	CPH	Independent Study	Nunes	Anthony
3527	CTS	799	CPH	Independent Study	Person	Sharina
3247	CTS	799	CPH	Independent Study	Person	Sharina
3437	CTS	799	CPH	Independent Study	Rosal	Milagros
3491	CTS	799	CPH	Independent Study	Sadasivam	Rajani
3493	CTS	799	CPH	Independent Study	Ulbricht	Christine
3125	CTS	802	CPH	Journal Club	GOLDBERG	Robert Joel
3297	CTS	865	CTS	CTS TRAC MEETING	Lapane	Kate
3237	CTS	875	CPH	Grant Writing	Lemon	Stephenie
3169	CTS	602B	CPH	Adv Epidemiology & Res Mthds	Nunes	Anthony

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3149	CTS	603B	CPH	Stat.Meth.Survival&Long.DatAna	BAEK	Jong Gyu
3487	CTS	860A	CPH	Written Qualifying Exam	Lapane	Kate
3279	CTS	860B	CPH	Oral Qualifying Exam	Lapane	Kate

### Clinical & Translational Science Research Class Numbers

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3321	CTS	850	CTS	Research Assistantship	Aidlen	Jeremy
3431	CTS	850	CTS	Research Assistantship	Alavi	Karim
3711	CTS	850	CTS	Research Assistantship	ALCUSKY	Matthew James
3299	CTS	850	CTS	Research Assistantship	Allison	Jeroan
3305	CTS	850	CTS	Research Assistantship	ANDERSON	Frederick Arthur
3433	CTS	850	CTS	Research Assistantship	Ash	Arlene
3449	CTS	850	CTS	Research Assistantship	Byatt	Nancy
3303	CTS	850	CTS	Research Assistantship	Clark	Robin
3429	CTS	850	CTS	Research Assistantship	Epstein	Mara
3473	CTS	850	CTS	Research Assistantship	Friedmann	Peter
3241	CTS	850	CTS	Research Assistantship	GOLDBERG	Robert Joel
3441	CTS	850	CTS	Research Assistantship	Himmelstein	Jay
3289	CTS	850	CTS	Research Assistantship	Kiefe	Catarina
3141	CTS	850	CTS	Research Assistantship	Lapane	Kate
3301	CTS	850	CTS	Research Assistantship	Lemon	Stephenie
3519	CTS	850	CTS	Research Assistantship	LIU	Shao-Hsien
3261	CTS	850	CTS	Research Assistantship	Luckmann	Roger
3133	CTS	850	CTS	Research Assistantship	Mattocks	Kristin
3447	CTS	850	CTS	Research Assistantship	Mazor	Kathleen
3335	CTS	850	CTS	Research Assistantship	McManus	David
3249	CTS	850	CTS	Research Assistantship	Mick	Eric
3239	CTS	850	CTS	Research Assistantship	Ockene	Judith
3213	CTS	850	CTS	Research Assistantship	Person	Sharina
3738	CTS	850	CTS	Research Assistantship	RHEIN	Lawrence

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
<b>3127</b>	CTS	850	CTS	Research Assistantship	Rosal	Milagros
<b>3189</b>	CTS	850	CTS	Research Assistantship	Rosen	Allison
<b>3495</b>	CTS	850	CTS	Research Assistantship	Sadasivam	Rajani
<b>3255</b>	CTS	850	CTS	Research Assistantship	Tjia	Jennifer
<b>3435</b>	CTS	850	CTS	Research Assistantship	Ulbricht	Christine
<b>3283</b>	CTS	850	CTS	Research Assistantship	Waring	Molly
<b>3231</b>	CTS	850	CTS	Research Assistantship	Ziedonis	Douglas
<b>3323</b>	CTS	870	CTS	Pre-Thesis Research	Aidlen	Jeremy
<b>3363</b>	CTS	870	CTS	Pre-Thesis Research	Alavi	Karim
<b>3712</b>	CTS	870	CTS	Pre-Thesis Research	ALCUSKY	Matthew James
<b>3497</b>	CTS	870	CTS	Pre-Thesis Research	Allison	Jeroan
<b>3501</b>	CTS	870	CTS	Pre-Thesis Research	Ash	Arlene
<b>3451</b>	CTS	870	CTS	Pre-Thesis Research	Byatt	Nancy
<b>3403</b>	CTS	870	CTS	Pre-Thesis Research	Epstein	Mara
<b>3471</b>	CTS	870	CTS	Pre-Thesis Research	Friedmann	Peter
<b>3405</b>	CTS	870	CTS	Pre-Thesis Research	GOLDBERG	Robert Joel
<b>3505</b>	CTS	870	CTS	Pre-Thesis Research	Kiefe	Catarina
<b>3439</b>	CTS	870	CTS	Pre-Thesis Research	LAFEMINA	Jennifer
<b>3385</b>	CTS	870	CTS	Pre-Thesis Research	Lapane	Kate
<b>3373</b>	CTS	870	CTS	Pre-Thesis Research	Lemon	Stephenie
<b>3521</b>	CTS	870	CTS	Pre-Thesis Research	LIU	Shao-Hsien
<b>3507</b>	CTS	870	CTS	Pre-Thesis Research	Mattocks	Kristin
<b>3453</b>	CTS	870	CTS	Pre-Thesis Research	Mazor	Kathleen
<b>3333</b>	CTS	870	CTS	Pre-Thesis Research	McManus	David
<b>3792</b>	CTS	870	CTS	Pre-Thesis Research	Nunes	Anthony
<b>3375</b>	CTS	870	CTS	Pre-Thesis Research	Ockene	Judith
<b>3371</b>	CTS	870	CTS	Pre-Thesis Research	Person	Sharina
<b>3739</b>	CTS	870	CTS	Pre-Thesis Research	RHEIN	Lawrence
<b>3369</b>	CTS	870	CTS	Pre-Thesis Research	Rosal	Milagros
<b>3499</b>	CTS	870	CTS	Pre-Thesis Research	Sadasivam	Rajani

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
<b>3529</b>	CTS	870	CTS	Pre-Thesis Research	Tjia	Jennifer
<b>3509</b>	CTS	870	CTS	Pre-Thesis Research	Ulbricht	Christine
<b>3325</b>	CTS	900	CTS	Thesis Research	Aidlen	Jeremy
<b>3391</b>	CTS	900	CTS	Thesis Research	Alavi	Karim
<b>3713</b>	CTS	900	CTS	Thesis Research	ALCUSKY	Matthew James
<b>3185</b>	CTS	900	CTS	Thesis Research	Allison	Jeroan
<b>3171</b>	CTS	900	CTS	Thesis Research	ANDERSON	Frederick Arthur
<b>3221</b>	CTS	900	CTS	Thesis Research	Ash	Arlene
<b>3455</b>	CTS	900	CTS	Thesis Research	Byatt	Nancy
<b>3173</b>	CTS	900	CTS	Thesis Research	Clark	Robin
<b>3389</b>	CTS	900	CTS	Thesis Research	Epstein	Mara
<b>3475</b>	CTS	900	CTS	Thesis Research	Friedmann	Peter
<b>3245</b>	CTS	900	CTS	Thesis Research	GOLDBERG	Robert Joel
<b>3307</b>	CTS	900	CTS	Thesis Research	Harlan	David
<b>3187</b>	CTS	900	CTS	Thesis Research	Kiefe	Catarina
<b>3207</b>	CTS	900	CTS	Thesis Research	King	Jean
<b>3517</b>	CTS	900	CTS	Thesis Research	LAFEMINA	Jennifer
<b>3143</b>	CTS	900	CTS	Thesis Research	Lapane	Kate
<b>3219</b>	CTS	900	CTS	Thesis Research	Lemon	Stephenie
<b>3523</b>	CTS	900	CTS	Thesis Research	LIU	Shao-Hsien
<b>3175</b>	CTS	900	CTS	Thesis Research	Luckmann	Roger
<b>3135</b>	CTS	900	CTS	Thesis Research	Mattocks	Kristin
<b>3457</b>	CTS	900	CTS	Thesis Research	Mazor	Kathleen
<b>3331</b>	CTS	900	CTS	Thesis Research	McManus	David
<b>3251</b>	CTS	900	CTS	Thesis Research	Mick	Eric
<b>3223</b>	CTS	900	CTS	Thesis Research	Moore	Constance
<b>3377</b>	CTS	900	CTS	Thesis Research	Moormann	Ann
<b>3387</b>	CTS	900	CTS	Thesis Research	Ockene	Judith
<b>3205</b>	CTS	900	CTS	Thesis Research	Paydarfar	David
<b>3793</b>	CTS	900	CTS	Thesis Research	Pbert	Lori

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3215	CTS	900	CTS	Thesis Research	Person	Sharina
3741	CTS	900	CTS	Thesis Research	RHEIN	Lawrence
3129	CTS	900	CTS	Thesis Research	Rosal	Milagros
3191	CTS	900	CTS	Thesis Research	Rosen	Allison
3265	CTS	900	CTS	Thesis Research	Sadasivam	Rajani
3257	CTS	900	CTS	Thesis Research	Tjia	Jennifer
3393	CTS	900	CTS	Thesis Research	Ulbricht	Christine
3285	CTS	900	CTS	Thesis Research	Waring	Molly
3233	CTS	900	CTS	Thesis Research	Ziedonis	Douglas
3327	CTS	990	CTS	Graduate Research	Aidlen	Jeremy
3399	CTS	990	CTS	Graduate Research	Alavi	Karim
3714	CTS	990	CTS	Graduate Research	ALCUSKY	Matthew James
3179	CTS	990	CTS	Graduate Research	Allison	Jeroan
3165	CTS	990	CTS	Graduate Research	ANDERSON	Frederick Arthur
3225	CTS	990	CTS	Graduate Research	Ash	Arlene
3201	CTS	990	CTS	Graduate Research	Bandini	Linda
3199	CTS	990	CTS	Graduate Research	Barton	Bruce
3291	CTS	990	CTS	Graduate Research	Bozorgzadeh	Adel
3181	CTS	990	CTS	Graduate Research	Briesacher	Becky
3459	CTS	990	CTS	Graduate Research	Byatt	Nancy
3313	CTS	990	CTS	Graduate Research	Clark	Melissa
3159	CTS	990	CTS	Graduate Research	Clark	Robin
3229	CTS	990	CTS	Graduate Research	DIFRANZA	Joseph
3397	CTS	990	CTS	Graduate Research	Epstein	Mara
3183	CTS	990	CTS	Graduate Research	Fisher	William
3151	CTS	990	CTS	Graduate Research	Franklin	Patricia
3193	CTS	990	CTS	Graduate Research	Frazier	Jean
3477	CTS	990	CTS	Graduate Research	Friedmann	Peter
3177	CTS	990	CTS	Graduate Research	GOLDBERG	Robert Joel
3515	CTS	990	CTS	Graduate Research	Kiefe	Catarina

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
<b>3147</b>	CTS	990	CTS	Graduate Research	King	Jean
<b>3137</b>	CTS	990	CTS	Graduate Research	LAFEMINA	Jennifer
<b>3145</b>	CTS	990	CTS	Graduate Research	Lapane	Kate
<b>3197</b>	CTS	990	CTS	Graduate Research	Lemon	Stephenie
<b>3157</b>	CTS	990	CTS	Graduate Research	Lilly	Craig
<b>3525</b>	CTS	990	CTS	Graduate Research	LIU	Shao-Hsien
<b>3155</b>	CTS	990	CTS	Graduate Research	Luckmann	Roger
<b>3163</b>	CTS	990	CTS	Graduate Research	Madoff	Lawrence
<b>3209</b>	CTS	990	CTS	Graduate Research	Marsh	Wendy
<b>3293</b>	CTS	990	CTS	Graduate Research	MARTINS	Paulo
<b>3139</b>	CTS	990	CTS	Graduate Research	Mattocks	Kristin
<b>3461</b>	CTS	990	CTS	Graduate Research	Mazor	Kathleen
<b>3329</b>	CTS	990	CTS	Graduate Research	McManus	David
<b>3253</b>	CTS	990	CTS	Graduate Research	Mick	Eric
<b>3227</b>	CTS	990	CTS	Graduate Research	Moore	Constance
<b>3167</b>	CTS	990	CTS	Graduate Research	Ockene	Ira
<b>3395</b>	CTS	990	CTS	Graduate Research	Ockene	Judith
<b>3263</b>	CTS	990	CTS	Graduate Research	Paydarfar	David
<b>3217</b>	CTS	990	CTS	Graduate Research	Person	Sharina
<b>3153</b>	CTS	990	CTS	Graduate Research	Reed	George
<b>3743</b>	CTS	990	CTS	Graduate Research	RHEIN	Lawrence
<b>3131</b>	CTS	990	CTS	Graduate Research	Rosal	Milagros
<b>3195</b>	CTS	990	CTS	Graduate Research	Rosen	Allison
<b>3161</b>	CTS	990	CTS	Graduate Research	Rothman	Alan
<b>3311</b>	CTS	990	CTS	Graduate Research	Sadasivam	Rajani
<b>3211</b>	CTS	990	CTS	Graduate Research	Schneider	Kristin
<b>3259</b>	CTS	990	CTS	Graduate Research	Tjia	Jennifer
<b>3401</b>	CTS	990	CTS	Graduate Research	Ulbricht	Christine
<b>3295</b>	CTS	990	CTS	Graduate Research	Walz	Jens
<b>3287</b>	CTS	990	CTS	Graduate Research	Waring	Molly

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3235	CTS	990	CTS	Graduate Research	Ziedonis	Douglas

## HSPP Class Numbers

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3531	HSP	502B	HSM	Med Phys, Hist, & Embryology B	Jonassen	Julie
3537	HSP	503	HSM	Epidemiology/Biostatistics	Epstein	Mara
3539	HSP	504B	HSM	Academic Achievement B	Hines	Deborah
3533	HSP	505	HSM	Clinical Medicine	Garcia	Maria
3535	HSP	506	HSM	Clinical Immersion	Person	Sharina

## MD/PhD Class Numbers

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2971	BBS	865	MDP	BBS TRAC Meeting	Lane	Mary
3023	BBS	870	MDP	Prequalifying Research	Boudreaux	Edwin
3759	BBS	870	MDP	Prequalifying Research	Brehm	Michael
3061	BBS	870	MDP	Prequalifying Research	Fitzgerald	Katherine
3760	BBS	870	MDP	Prequalifying Research	Haynes	Cole
3697	BBS	870	MDP	Prequalifying Research	Henninger	Nils
3699	BBS	870	MDP	Prequalifying Research	JOHNSON	Mark Damone
3063	BBS	870	MDP	Prequalifying Research	Kelliher	Michelle
3065	BBS	870	MDP	Prequalifying Research	McCormick	Beth
3067	BBS	870	MDP	Prequalifying Research	Melikian	Haley
3761	BBS	870	MDP	Prequalifying Research	Peterson	Craig
3762	BBS	870	MDP	Prequalifying Research	Richter	Joel
3051	BBS	870	MDP	Prequalifying Research	SHOHET	Jason Matthew
3733	BBS	870	MDP	Prequalifying Research	Thomson	Travis
3055	BBS	870	MDP	Prequalifying Research	WANG	Bo
3069	BBS	870	MDP	Prequalifying Research	Weng	Zhiping
2823	BBS	900	MDP	Thesis Research	Alonso	Laura
3071	BBS	900	MDP	Thesis Research	ANACLET	Christelle
2825	BBS	900	MDP	Thesis Research	Aronin	Neil
3073	BBS	900	MDP	Thesis Research	Baehrecke	Eric
2827	BBS	900	MDP	Thesis Research	Bailey	Jeffrey
2829	BBS	900	MDP	Thesis Research	Behar	Samuel
2831	BBS	900	MDP	Thesis Research	Bosco	Daryl
3075	BBS	900	MDP	Thesis Research	Boudreaux	Edwin
2833	BBS	900	MDP	Thesis Research	Brown	Robert
2835	BBS	900	MDP	Thesis Research	Ceol	Craig
3763	BBS	900	MDP	Thesis Research	EMERY	Patrick
3764	BBS	900	MDP	Thesis Research	Fitzgerald	Katherine
3077	BBS	900	MDP	Thesis Research	Futai	Kensuke
2837	BBS	900	MDP	Thesis Research	Gardner	Paul

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2839	BBS	900	MDP	Thesis Research	Golenbock	Douglas
3727	BBS	900	MDP	Thesis Research	GRAYEDWARDS	Heather Leigh
2841	BBS	900	MDP	Thesis Research	Guertin	David
2843	BBS	900	MDP	Thesis Research	Harris	John
3701	BBS	900	MDP	Thesis Research	Henninger	Nils
3703	BBS	900	MDP	Thesis Research	JOHNSON	Mark Damone
3765	BBS	900	MDP	Thesis Research	Kelliher	Michelle
3079	BBS	900	MDP	Thesis Research	Khvorova	Anastasia
2845	BBS	900	MDP	Thesis Research	Kurt-Jones	Evelyn
2847	BBS	900	MDP	Thesis Research	Lawrence	Jeanne
2849	BBS	900	MDP	Thesis Research	Lee	Michael
2851	BBS	900	MDP	Thesis Research	Li	Hong-Sheng
2973	BBS	900	MDP	Thesis Research	Luban	Jeremy
2853	BBS	900	MDP	Thesis Research	McCormick	Beth
3766	BBS	900	MDP	Thesis Research	Melikian	Haley
2855	BBS	900	MDP	Thesis Research	Mercurio	Arthur
2857	BBS	900	MDP	Thesis Research	Moore	Melissa
3081	BBS	900	MDP	Thesis Research	Peterson	Craig
3083	BBS	900	MDP	Thesis Research	Pukkila-Worley	Read
2859	BBS	900	MDP	Thesis Research	Rhind	Nicholas
2861	BBS	900	MDP	Thesis Research	Richter	Joel
2863	BBS	900	MDP	Thesis Research	Rock	Kenneth
3767	BBS	900	MDP	Thesis Research	Rothstein	Ann
2865	BBS	900	MDP	Thesis Research	Sassetti	Christopher
2867	BBS	900	MDP	Thesis Research	Schafer	Dorothy
2869	BBS	900	MDP	Thesis Research	Schiffer	Celia
2871	BBS	900	MDP	Thesis Research	Shaw	Leslie
3053	BBS	900	MDP	Thesis Research	SHOHET	Jason Matthew
2873	BBS	900	MDP	Thesis Research	Song	Jie
3085	BBS	900	MDP	Thesis Research	Sontheimer	Erik

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2875	BBS	900	MDP	Thesis Research	Szabo	Gyongyi
3735	BBS	900	MDP	Thesis Research	Thomson	Travis
2877	BBS	900	MDP	Thesis Research	Trivedi	Chinmay
2879	BBS	900	MDP	Thesis Research	Walhout	Albertha
3057	BBS	900	MDP	Thesis Research	WANG	Bo
2881	BBS	900	MDP	Thesis Research	Weng	Zhiping
2883	BBS	900	MDP	Thesis Research	Xue	Wen
2885	BBS	900	MDP	Thesis Research	Zamore	Phillip
2887	BBS	990	MDP	Graduate Research	Alonso	Laura
2889	BBS	990	MDP	Graduate Research	Aronin	Neil
3768	BBS	990	MDP	Graduate Research	Baehrecke	Eric
2891	BBS	990	MDP	Graduate Research	Bailey	Jeffrey
2893	BBS	990	MDP	Graduate Research	Behar	Samuel
2895	BBS	990	MDP	Graduate Research	Bosco	Daryl
3769	BBS	990	MDP	Graduate Research	Boudreaux	Edwin
2897	BBS	990	MDP	Graduate Research	Brown	Robert
2899	BBS	990	MDP	Graduate Research	Ceol	Craig
3770	BBS	990	MDP	Graduate Research	Futai	Kensuke
2901	BBS	990	MDP	Graduate Research	Gardner	Paul
2903	BBS	990	MDP	Graduate Research	Golenbock	Douglas
3729	BBS	990	MDP	Graduate Research	GRAYEDWARDS	Heather Leigh
2905	BBS	990	MDP	Graduate Research	Guertin	David
2907	BBS	990	MDP	Graduate Research	Harris	John
3706	BBS	990	MDP	Graduate Research	Henninger	Nils
3707	BBS	990	MDP	Graduate Research	JOHNSON	Mark Damone
3771	BBS	990	MDP	Graduate Research	Khvorova	Anastasia
2909	BBS	990	MDP	Graduate Research	Kurt-Jones	Evelyn
2953	BBS	990	MDP	Graduate Research	Lane	Mary
2911	BBS	990	MDP	Graduate Research	Lawrence	Jeanne
2913	BBS	990	MDP	Graduate Research	Lee	Michael

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2915	BBS	990	MDP	Graduate Research	Li	Hong-Sheng
3087	BBS	990	MDP	Graduate Research	Luban	Jeremy
2917	BBS	990	MDP	Graduate Research	McCormick	Beth
2751	BBS	990	MDP	Graduate Research	McManus	David
2919	BBS	990	MDP	Graduate Research	Mercurio	Arthur
2921	BBS	990	MDP	Graduate Research	Moore	Melissa
2975	BBS	990	MDP	Graduate Research	Pazour	Gregory
3772	BBS	990	MDP	Graduate Research	Peterson	Craig
3773	BBS	990	MDP	Graduate Research	Pukkila-Worley	Read
2923	BBS	990	MDP	Graduate Research	Rhind	Nicholas
2925	BBS	990	MDP	Graduate Research	Richter	Joel
2927	BBS	990	MDP	Graduate Research	Rock	Kenneth
2929	BBS	990	MDP	Graduate Research	Sassetti	Christopher
2931	BBS	990	MDP	Graduate Research	Schafer	Dorothy
2933	BBS	990	MDP	Graduate Research	Schiffer	Celia
2935	BBS	990	MDP	Graduate Research	Shaw	Leslie
3037	BBS	990	MDP	Graduate Research	SHOHET	Jason Matthew
2937	BBS	990	MDP	Graduate Research	Song	Jie
3774	BBS	990	MDP	Graduate Research	Sontheimer	Erik
2939	BBS	990	MDP	Graduate Research	Szabo	Gyongyi
3737	BBS	990	MDP	Graduate Research	Thomson	Travis
2941	BBS	990	MDP	Graduate Research	Trivedi	Chinmay
2943	BBS	990	MDP	Graduate Research	Walhout	Albertha
3059	BBS	990	MDP	Graduate Research	WANG	Bo
2945	BBS	990	MDP	Graduate Research	Weng	Zhiping
2953	BBS	990	MDP	Graduate Research	Xiang	Yang
2947	BBS	990	MDP	Graduate Research	Xue	Wen
2949	BBS	990	MDP	Graduate Research	Zamore	Phillip
3720	CQLS	525	MDP	ST: Cloud Computing (WPI)	Grunwald	David
3721	CQLS	586	MDP	Big Data Analytics (WPI)	Grunwald	David

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3121	CQLS	850	MDP	Laboratory Rotation	Grunwald	David
3379	CTS	865	MDP	CTS TRAC MEETING	Lapane	Kate
3419	CTS	870	MDP	Pre-Thesis Research	ANACLET	Christelle
3781	CTS	870	MDP	Pre-Thesis Research	Ash	Arlene
3425	CTS	870	MDP	Pre-Thesis Research	Baehrecke	Eric
3409	CTS	870	MDP	Pre-Thesis Research	Boudreaux	Edwin
3411	CTS	870	MDP	Pre-Thesis Research	Byatt	Nancy
3465	CTS	870	MDP	Pre-Thesis Research	Friedmann	Peter
3415	CTS	870	MDP	Pre-Thesis Research	Futai	Kensuke
3782	CTS	870	MDP	Pre-Thesis Research	Himmelstein	Jay
3417	CTS	870	MDP	Pre-Thesis Research	Khvorova	Anastasia
3463	CTS	870	MDP	Pre-Thesis Research	Mazor	Kathleen
3407	CTS	870	MDP	Pre-Thesis Research	McManus	David
3413	CTS	870	MDP	Pre-Thesis Research	Peterson	Craig
3421	CTS	870	MDP	Pre-Thesis Research	Pukkila-Worley	Read
3740	CTS	870	MDP	Pre-Thesis Research	RHEIN	Lawrence
3423	CTS	870	MDP	Pre-Thesis Research	Sontheimer	Erik
3783	CTS	870	MDP	Pre-Thesis Research	Ulbricht	Christine
3427	CTS	870	MDP	Pre-Thesis Research	Xue	Wen
3341	CTS	900	MDP	Thesis Research	Allison	Jeroan
3467	CTS	900	MDP	Thesis Research	Byatt	Nancy
3481	CTS	900	MDP	Thesis Research	Friedmann	Peter
3343	CTS	900	MDP	Thesis Research	Kiefe	Catarina
3345	CTS	900	MDP	Thesis Research	Luckmann	Roger
3469	CTS	900	MDP	Thesis Research	McManus	David
3742	CTS	900	MDP	Thesis Research	RHEIN	Lawrence
3339	CTS	990	MDP	Graduate Research	Aidlen	Jeremy
3347	CTS	990	MDP	Graduate Research	Allison	Jeroan
3357	CTS	990	MDP	Graduate Research	ANACLET	Christelle
3785	CTS	990	MDP	Graduate Research	Byatt	Nancy

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3353	CTS	990	MDP	Graduate Research	Donahue	John
3479	CTS	990	MDP	Graduate Research	Friedmann	Peter
3355	CTS	990	MDP	Graduate Research	IRAZOQUI	Javier Elbio
3349	CTS	990	MDP	Graduate Research	Kiefe	Catarina
3784	CTS	990	MDP	Graduate Research	Lapane	Kate
3351	CTS	990	MDP	Graduate Research	Luckmann	Roger
3361	CTS	990	MDP	Graduate Research	MARTINS	Paulo
3337	CTS	990	MDP	Graduate Research	McManus	David
3359	CTS	990	MDP	Graduate Research	MITCHELL	Amir Zadok
3744	CTS	990	MDP	Graduate Research	RHEIN	Lawrence
3547	MDP	741	MDP	Intro. to Translational Med	Corvera	Silvia
3547	MDP	741	MDP	Intro. to Translational Med	Michelson	Anne
3547	MDP	741	MDP	Intro. to Translational Med	Satishchandran	Abhishek
3573	MDP	744	MDP	MD/PhD Learning Communities	Corvera	Silvia
3549	MDP	800	MDP	MD/PhD Seminar	Michelson	Anne
3543	MDP	990	MDP	MD/PhD Grad.Res.Stu Post-Disse	Michelson	Anne
3551	MDP	740A	MDP	Dev. Solutions Res.Prob.A Yr1	Corvera	Silvia
3599	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Allison	Jeroan
3615	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Alonso	Laura
3633	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	ANACLET	Christelle
3567	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Aronin	Neil
3603	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Ash	Arlene
3639	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Baehrecke	Eric
3559	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Bailey	Jeffrey
3575	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Bosco	Daryl
3561	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Brass	Abraham
3665	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Brehm	Michael
3669	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Caffrey	Daniel
3607	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Ceol	Craig
3579	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Corvera	Silvia

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3629	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Donahue	John
3625	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Fitzgerald	Katherine
3653	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Francis	Michael
3611	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	GOLDBERG	Robert Joel
3555	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Golenbock	Douglas
3593	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Guertin	David
3583	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Harris	John
3677	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Haynes	Cole
3631	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	IRAZOQUI	Javier Elbio
3663	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Keaney	John
3659	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Kelliher	Michelle
3577	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Khanna	Hemant
3651	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Khvorova	Anastasia
3597	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Lawrence	Jeanne
3605	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Lee	Michael
3571	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Luckmann	Roger
3637	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	MARTINS	Paulo
3623	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	McCormick	Beth
3627	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	McManus	David
3661	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Melikian	Haley
3619	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Mercurio	Arthur
3635	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	MITCHELL	Amir Zadok
3609	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Moore	Melissa
3589	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Paydarfar	David
3643	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Peterson	Craig
3647	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Pukkila-Worley	Read
3601	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Punzo	Claudio
3645	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Rhind	Nicholas
3563	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Richter	Joel
3667	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Rothstein	Ann

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3565	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Sassetti	Christopher
3617	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Schafer	Dorothy
3587	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Schiffer	Celia
3585	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Shaw	Leslie
3673	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	SHOHET	Jason Matthew
3595	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Szabo	Gyongyi
3649	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Tapper	Andrew
3569	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Tjia	Jennifer
3591	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Trivedi	Chinmay
3671	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Ulbricht	Christine
3581	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Walhout	Albertha
3613	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Walz	Jens
3675	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	WANG	Bo
3557	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Weng	Zhiping
3621	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Xue	Wen
3545	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Zhang	Nanyin
3641	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Ziedonis	Douglas
3553	MDP	740C	MDP	Dev. Solutions Res.Prob.C Yr3	Corvera	Silvia