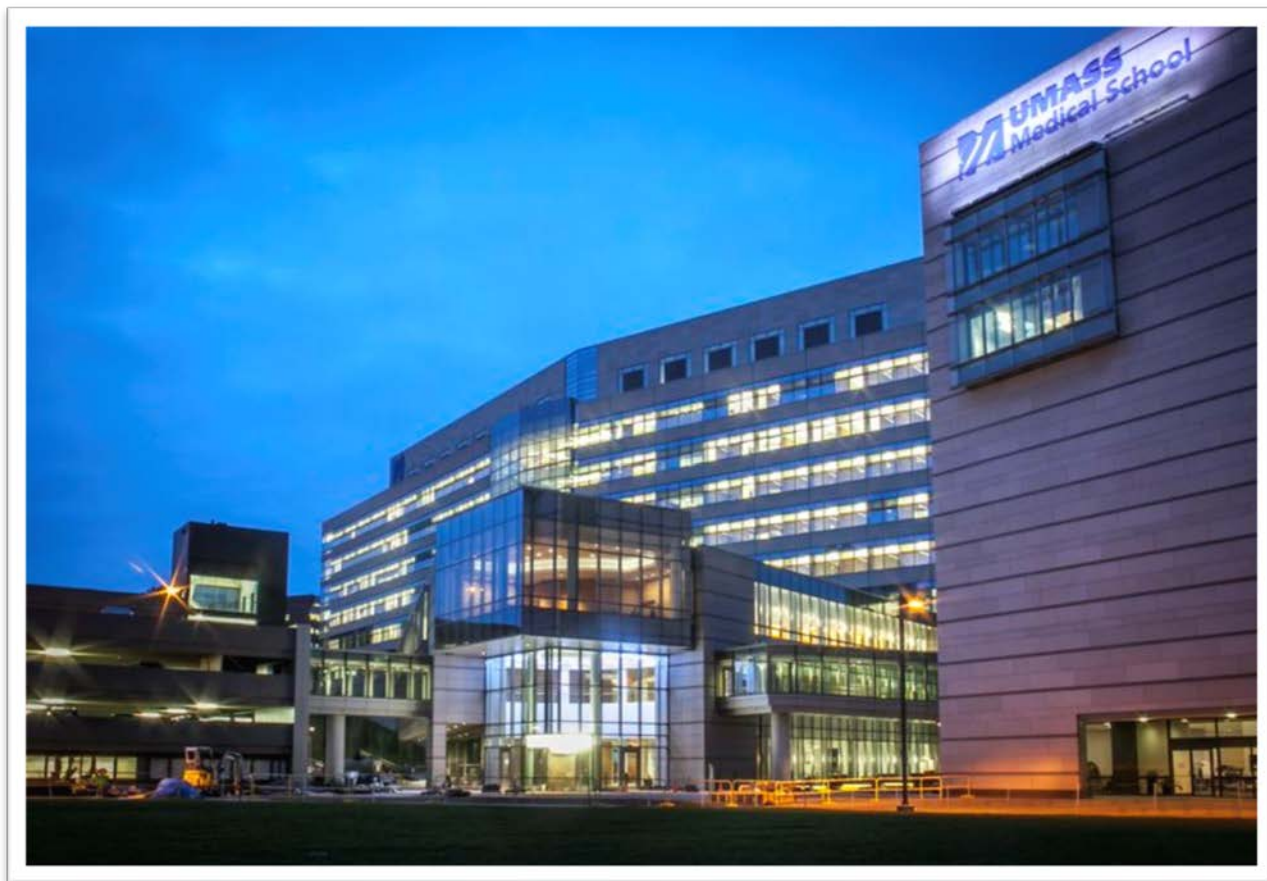




Graduate School *of*
Biomedical Sciences



Course Catalog & Registration Fall 2018

Registration Open: July 31 – August 21, 2018

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GSBS FALL 2018 REGISTRATION INSTRUCTIONS

Registration Period: 7/31/2018-8/21/2018

Final Date for add/drop: 9/14/2018

PeopleSoft Campus Solutions (PSCS) On-line Registration

To begin online Registration

Sign into PeopleSoft Campus Solutions (PSCS) with your assigned User name and Password

<https://wsa-prd.umasscs.net/psp/wsaprd90/?cmd=login&languageCd=ENG>

PSCS Online Training for Students

<http://inside.umassmed.edu/registrar/Peoplesoft/Online-Training-for-Students/>

Registration Changes, Course Drops or Adds

Instructions for changing your registration on-line in PSCS can be found in the PSCS online training (see link above). They can also be made manually through the Graduate School office using the [Registration Change Form](#).

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 PSCS Password or Access Problems

Contact the UMWHelpdesk, 508-856-8643 umwhelpdesk@umassmed.edu

Assistance with Administrative Questions

Basic & Biomedical Sciences Students Contact:

Mary Ellen Lane, S1-824, 508-856-4018, maryellen.lane@umassmed.edu

Clinical & Translational Sciences and MD/PhD Students Contact:

Anne Michelson, S1-824, 508-856-8025, anne.michelson@umassmed.edu

Assistance with Advanced Topics or Academic Questions Related to Courses

Students are advised to meet with their Graduate Program Director, Thesis Advisor or with Associate, Dean Mary Ellen Lane, for assistance in selecting Advanced Topics or Elective Courses, or if you have questions related to program or course requirements.

Graduate Program Directors

Program	Name	Location	Telephone
Biochemistry and Molecular Pharmacology	Kobertz, William	LRB-804	508-856-8861
Bioinformatics & Computational Biology	Kowalik, Timothy	ASC8-2057	508-856-6035
Cancer Biology	Cantor, Sharon	LRB-415	508-856-4421
Cancer Biology	Mercurio, Arthur	LRB-408	508-856-8676
Cell Biology	Imbalzano, Anthony	S3-125	508-856-1029
Clinical & Population Health Research	Lapane, Kate	AC7-073	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	S1-824	508-856-8025
Millennium MD/PhD Program	Kornfeld, Hardy	S1-824	508-856-8025
MS in Clinical Investigation	Goldberg, Robert	S1-824	508-856-8025
Neuroscience	Weaver, David	LRB-723	508-856-2495
Pathway to Graduate Study	Lewis, Brian	LRB-521	508-856-4325
Translational Science	Mandrekar, Pranoti	LRB-221	508-856-5391
Translational Science	Royer, William	LRB-921	508-856-6912

Academic Calendar Fall 2018

PROGRAM(S)	DESCRIPTION	SESSION ID	START	END
BBS, MPP, MSCI, MD/PhD, CPHR, PGSP	Early Fall Session	ERL	7/9/2018	8/31/2018
HSPP	HSPP Session	HSM	8/6/2018	12/21/2018
MD/PhD	MD/PhD Session	MDP	9/4/2018	12/31/2018
CPHR, MSCI	CTS Research Session	CTS	9/4/2018	1/18/2019
ALL	HOLIDAY: Labor Day		9/3/2018	9/3/2018
ALL	Faculty Poster Session		9/4/2018	9/4/2018
ALL	GSBS Orientation		9/4/2018	9/5/2018
BBS, MPP, PGSP	Regular Academic Session	1	9/4/2018	2/1/2019
CPHR, MSCI	CTS Class Session	CPH	9/5/2018	12/21/2018
ALL	Recognition Ceremony		9/18/2018	9/18/2018
BBS, PGSP	Fall Lab Session 1	L1	9/24/2018	11/16/2018
ALL	HOLIDAY: Columbus Day		10/8/2018	10/8/2018
ALL	BBS Research Retreat		9/20/2018	9/21/2018
ALL	HOLIDAY: Veteran's Day		11/12/2018	11/12/2018
BBS, PGSP	Fall Lab Session 2	L2	11/19/2018	2/1/2019
ALL	HOLIDAY: Thanksgiving		11/22/2018	11/22/2018
ALL	HOLIDAY: Day After Thanksgiving		11/23/2018	11/23/2018
ALL	HOLIDAY: Day Before Christmas		12/24/2018	12/24/2018
ALL	HOLIDAY: Christmas Day		12/25/2018	12/25/2018
ALL	HOLIDAY: New Years Day		1/1/2019	1/1/2019

COURSES FOR REGISTRATION

Basic & Biomedical Science Courses

BBS 601 - Professionalism and Research Conduct (PARC)

Class #: 2121

This is a required course for all third year Basic Sciences students and all MD/PhD students entering doctoral study but who are not on the CPHR track. The PARC course helps to center our students in areas that are foundational to success in research: responsible data management; management of intellectual property; the ethical use of research subjects; recognizing and resolving conflicts of interest, professionalism in peer review and publishing; engaging mentors; and career exploration and planning. The PARC course comprises faculty-led presentations and small group discussions with case studies and workshop material. An online learning module (CITI training program comprising many case studies) is also included and must be completed before the end of the fall semester. Students required to take the fall PARC course will be block-registered.

Prerequisites: None

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

Associated Program(s): Basic & Biomedical Sciences

Course Director: Imbalzano,A

Course Director email: anthony.imbalzano@umassmed.edu

Co-Course Director: Fuhrmann,C

Co-Course Director email: Cynthia.Fuhrmann@umassmed.edu

Course Administrator: Parker,I

Course Administrator email: irina.parker@umassmed.edu

Class Meeting Information: 9/26/18-12/12/18 Wednesdays 9am-11 am

Class Meeting Location: S2-351/S2-352

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 602 - Preparation for Qualifying Exam

Class #: 3871

This course seeks to help prospective scientists in the biological and medical sciences communicate their work effectively, in writing, graphics and oral presentations. The course teaches how to prepare a research paper using words, statistics and figures; how to present science to a lay audience; how to write a grant proposal; and how to present orally to scientific peers.

Prerequisites: None

Credits: 2 | **Grading:** Letter

Associated Program(s): Basic & Biomedical Sciences

Course Director: Lane,M

Course Director email: maryellen.lane@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Wednesdays 9a-11a (Class will meet every other week starting in October)

Class Meeting Location:

Required Textbooks: The visual display of quantitative informations 2nd ed. (2001). Cheshire, CT: Graphics Press.
PROVIDED TO STUDENTS BY THE GSBS

Recommended Textbooks:

Additional notes:

BBS 603 - Responsible Conduct of Research - Post Doctoral Scholars

Class #: 3609

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, A

Course Director email: anthony.imbalzano@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator: Parker,I

Course Administrator email: irina.parker@umassmed.edu

Class Meeting Information: 9/7, 9/11, 9/14, 9/17 and 9/25/2018 from 9:30-11:30.

Class Meeting Location: S2-351/S2-352

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 614 - Foundations in Biomedical Science

Class #: 3533

This problem-based course provides learning opportunities through exploration of multidisciplinary areas of contemporary biomedical research, and creates a forum for practice in the skills required for research.

Prerequisites: Matriculation in the PhD Program

Credits: 6 | **Grading:** Letter

Associated Program(s): Basic & Biomedical Sciences

Course Director: Theurkauf, W

Course Director email: william.theurkauf@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator: Stratton, A

Course Administrator email: annette.stratton@umassmed.edu

Class Meeting Information: 9/6/18-9/19/18 Monday through Friday 9am-5pm; 9/24/18-2/1/19 Monday through Friday 9am-12pm

Class Meeting Location:

Required Textbooks:

Recommended Textbooks:

Additional notes:

BBS 715 - Chemical Biology

Class #: CANCELLED

The course focuses on the use of chemical approaches to answer fundamental questions in biology. Topics include post-translational modifications; chemical synthesis and modification of biopolymers; combinatorial chemistry; chemical genetics; rational drug design; ligand-receptor interactions; and the fundamentals of fluorescence.

Prerequisites: None

Credits: 3 | **Grading:** Letter

Associated Program(s): Biochemistry & Molecular Pharmacology

Course Director: Miller, S

Course Director email: Stephen.Miller@UMassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Tuesdays 2pm-5pm

Class Meeting Location: LRB-816

Required Textbooks:

Recommended Textbooks:

Additional notes:

BBS 716 - Molecular Biophysics

Class #: 1007

The goal of this course is to give students a strong foundation in physical principles that underlie the thermodynamic and mechanistic properties of biological macromolecules and macromolecular complexes. In addition to providing theoretical background, lectures and discussion groups will focus on the application of physical chemical principles in contemporary biomedical research. Topics will include spectroscopic and computational approaches to studying protein and nucleic acid structures, thermodynamics and kinetics of protein folding, the solution behavior of macromolecules and principles that govern molecular recognition.

Prerequisites: Strongly recommended, but not required: undergraduate Physical Chemistry

Credits: 3 | **Grading:** Letter

Associated Program(s): Biochemistry & Molecular Pharmacology

Course Director: Zitzewitz,J

Course Director email: Jill.Zitzewitz@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Tuesdays & Thursdays 11am-12:30pm

Class Meeting Location: LRB-816

Required Textbooks: None

Recommended Textbooks: Kuriyan, J., Wemmer, D., & Konforti, B. (2013). The molecules of life: physical and chemical principles. New York: Garland Science, Taylor & Francis Group. ISBN 978-0-8153-4188-8

Additional notes:

BBS 738 - Eukaryotic Gene Expression

Class #: **CANCELLED**

This course encompasses current topics in eukaryotic gene regulation including the discussion of current research articles. Within this context, we will also explore the role of epigenetic regulators in transcriptional control. Course goals include improving skills in reading, presenting, discussing, and critically analyzing research articles.

Prerequisites: Core course/Foundations Course

Credits: 3 | **Grading:** Letter

Associated Program(s): Interdisciplinary

Course Director: Peterson,C

Course Director email: craig.peterson@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Wednesdays and Fridays 3pm-4:30pm

Class Meeting Location: BT2, 2nd floor conf. room

Required Textbooks:

Recommended Textbooks:

Additional notes:

BBS 741 - Advanced Topics in Bioinformatics

Class #: 4003

The Advanced Topics in Bioinformatics course covers several important areas of modern bioinformatics and computational biology. The course is aimed not only at students specializing in bioinformatics, but also general biology students who would like to utilize bioinformatics tools in their daily research. The course will begin with an overview of modern sources of bioinformatics data, especially high-throughput sequencing data (RNA-seq, ChIP-seq, DNase-seq, ATAC-seq, Whole genome bisulfite sequencing, etc.), followed by a thorough presentation of an extensive set of statistical learning and machine learning algorithms and their application to analyzing biological data. The course will include 10 lectures each with a homework set, followed by individual or group projects, presented in lieu of the final exam.

Prerequisites: None

Credits: 2 | **Grading:** Letter

Associated Program(s): Bioinformatics & Computational Biology Biochemistry & Molecular Pharmacology

Course Director: Weng, Z

Course Director email: zhiping.weng@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Tuesdays 9am-11am

Class Meeting Location: AS7-2072

Required Textbooks:

Recommended Textbooks:

Additional notes:

BBS 748 - Introduction to Cellular Metabolism and Disease

Class #: 2641

This intense 3-week course will expose students to a variety of topics related to cellular metabolism. The course will cover material ranging from foundational principles to current leading-edge research. The principles and mechanisms regulating metabolism will be explored from multiple perspectives, including biochemistry, biophysics, genetics, molecular biology and cell biology.

Prerequisites: None

Credits: 2 | **Grading:** Letter

Associated Program(s): Pathway to Graduate Study Interdisciplinary Translational Science

Course Director: Lewis, B

Course Director email: brian.lewis@umassmed.edu

Co-Course Director: Walker, A

Co-Course Director email: amy.walker@umassmed.edu

Course Administrator:

Course Administrator email:

Class Meeting Information: 7/16/2018-8/3/2018, Monday through Friday from 9am-11am

Class Meeting Location: S7-402

Required Textbooks:

Recommended Textbooks:

Additional notes:

BBS 782 - Bases of Brain Disease

Class #: 4004

This advanced topics course will be an in-depth study of specific areas of the neurochemical, anatomical, cell biological and genetic basis of nervous system disease. It will teach students skills in critically reading, literature and presentation of research material. The course topics are divided into sections covering disorders of neuronal migration and development; neurodegenerative diseases; and behavioral disorders. These topics cover the cell and molecular biological processes of brain function in health and disease.

Prerequisites: GSBS Core Courses or permission from course coordinator

Credits: 2 | **Grading:** Letter

Associated Program(s): Neuroscience

Course Director: Punzo, Claudio

Course Director email: claudio.punzo@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Thursdays 2:30pm-4pm

Class Meeting Location: AS6-2042

Required Textbooks: None

Recommended Textbooks: None

Additional notes:

BBS 783 - Genetic Basis of Behavior

Class #: 4005

The genetics of behavior represents a focal point in contemporary neuroscience research. Genetic screens have been conducted to identify mutants affecting behavior in model systems, and this has converged with advances in understanding the neurobiological basis of behavior. This course will synthesize the state of the art regarding the genetic basis of behavior in model organisms (worms, flies and mice), including discussion of learning and memory, circadian rhythms, and social behaviors. Lectures will include descriptions of systems for identifying mutations, genes that have been identified, and how identification of these genes contributes to understanding the underlying neural mechanisms of behavior. The course format will include faculty lectures, student presentations and discussion of assigned readings.

Prerequisites: GSBS Core Course Blocks I and II or permission from course coordinator

Credits: 2 | **Grading:** Letter

Associated Program(s): Neuroscience

Course Director: Xiang, Y

Course Director email: Yang.Xiang@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Tuesdays 2p-4p

Class Meeting Location:

Required Textbooks: None

Recommended Textbooks: None

Additional notes:

BBS 801 - RNA Biology Journal Club

Class #: 1009

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,V

Course Director email: victor.ambros@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: 4th Tuesday of each month (excluding Dec. – 3rd Tues.) 10a-12p; first class 9/25/2018

Class Meeting Location: Biotech Two, 2nd Floor Conference Room

Required Textbooks:

Recommended Textbooks:

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

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

BBS 808 - Journal Club in Neuroscience

Class #: 3875

Neuroscience Journal Club gives students the opportunity to present and discuss exciting new papers in neuroscience in an informal setting. Student presentations occur weekly (Wednesday 12-1). Students are also expected to attend the Neuroscience Program Seminar series (Thursday 12:15-1:15) and to meet with external speakers (Thursday 1:40-2:20). Program in Neuroscience students are required to take 2 semesters of BBS 808. BBS 838 substitutes for 808.

Prerequisites: None

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

Associated Program(s): Neuroscience

Course Director: Weaver,D

Course Director email: david.weaver@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Wednesday 12p-1p & Thursdays 12:15p-2:30p

Class Meeting Location: LRB-716

Required Textbooks:

Recommended Textbooks:

Additional notes: It is likely that either BBS 808 or BBS 838 will be offered, or a hybrid of them, but not both.

BBS 810 - Graduate Student Seminar Series**Class #: 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,W

Course Director email: William.Kobertz@Umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Fridays 4p-5p

Class Meeting Location: LRB 916

Required Textbooks:

Recommended Textbooks:

Additional notes: Instructor will advise students of start date.

BBS 821 - Molecular and Cellular Immunology**Class #: 2185**

Some of the most active areas of current immunology are investigated through the reading and discussion of research papers. Students further develop the ability to pose questions and design experiments to answer them through writing a research proposal. Topics to be covered include: regulation of lineage specification/commitment and antigen receptor gene recombination; mechanisms of immunological tolerance and lymphocyte activation, cellular transactions and their consequences (e.g., APC:T cell); and immune responses in infectious diseases.

Prerequisites: GSBS Core Courses, BBS755, Infection and Immune Response, or their equivalent

Credits: 3 | **Grading:** Letter

Associated Program(s): Immunology & Microbiology

Course Director: Kang,J

Course Director email: Joonsoo.Kang@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator: Snow,J

Course Administrator email: Jean.Snow@umassmed.edu

Class Meeting Information: Tuesdays & Thursdays 10a-11:30a

Class Meeting Location: AS9-1044

Required Textbooks: None

Recommended Textbooks: None

Additional notes:

BBS 822 - Advanced Animal Virology

Class #: CANCELLED

This is a paper reading-based course discussing in depth new findings in animal virology, including viral biochemistry and molecular biology, genetics, oncogenesis, and pathogenesis. The course will be team-taught by UMMS faculty. The course will begin with introductory lectures to provide background for more advanced readings. Students will then cover different specific areas chosen by the professors in detail with paper readings. At the end of the course the students will write a research proposal and present it to the class and faculty. Course can be taken for three credits with proposal and presentation or for two credits without proposal.

Prerequisites: BBS755, Infection and Immune Response, or their equivalent

Credits: 3 | **Grading:** Letter

Associated Program(s): Immunology & Microbiology

Course Director: Morrison,T

Course Director email: trudy.morrison@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Tuesdays & Thursdays 2pm-3pm

Class Meeting Location:

Required Textbooks: None

Recommended Textbooks: None

Additional notes:

BBS 823 - Advanced Bacterial Pathogenesis

Class #: CANCELLED

This course introduces students to cutting-edge topics in bacterial pathogenesis in a class format designed to encourage both critical analysis and concentration on experimental design, which will aid students in preparation for qualifying exams. The course meets once per week for 2.5-3 hours. Depending on class size and on a rotating basis, groups of two or three students lead discussions of selected topics. Presenting students are required to prepare written reviews to focus the discussion. The bulk of class time is devoted to open discussion and critical analysis of the literature, and constructive criticism of student reviews. Each student develops and presents a research proposal on one of the topics discussed. Students taking the course for 2 credits will not be required to prepare the research proposal and research plans. Grading is based on written reviews, quality of presentations, and class participation (all students) and on the quality of the research outline (students taking the class for 3 credits).

Prerequisites: GSBS Core Courses, BBS755, Infection and Immune Response, or permission from course coordinator

Credits: Variable | **Grading:** Letter

Associated Program(s): Immunology & Microbiology

Course Director: Irazoqui, J

Co-Course Director:

McCormick, B

Course Administrator: Barry, C

Course Director email: Javier.Irazoqui@umassmed.edu

Co-Course Director email: Beth.McCormick@umassmed.edu

Course Administrator email: Cheryl.Barry@umassmed.edu

Class Meeting Information: Wednesday 2pm-5pm

Class Meeting Location: First class in AS8-1073. AS8 or AS9-1073 for rest of semester.

Required Textbooks: None

Recommended Textbooks: Bacterial Pathogenesis (Ed. Cossart and Maloy) 2014 CSHL Press ISBN 978-1-936113-36-1

Bacterial Pathogenesis: a Molecular Approach 3rd Ed (Wilson et al) 2011 ASM Press ISBN 978-1-55581-418-2

Additional notes:

BBS 831 - Interprofessional Education in Clinical Neuroscience

Class #: 3925

GSBS students will participate in journal clubs with clinical residents and fellows, and participate in other clinically-focused activities typically outside the opportunities available to GSBS students.

Prerequisites: None

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

Associated Program(s): Neuroscience

Course Director: Benjamin, S

Co-Course Director: Weaver, D

Course Administrator:

Course Director email: Sheldon.Benjamin@umassmed.edu

Co-Course Director email: david.weaver@umassmed.edu

Course Administrator email:

Class Meeting Information: Mondays 12-1pm and Thursdays 2:30-3:30pm

Class Meeting Location: S4-325

Required Textbooks:

Recommended Textbooks:

Additional notes:

BBS 833 - Immunology and Virology Graduate Student Seminars

Class #: 1015

Advanced Immunology and Virology Program graduate students present seminars on their thesis research.

Prerequisites: BBS755, Infection and Immune Response

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

Associated Program(s): Immunology & Microbiology

Course Director: Huseby, E

Course Director email: eric.huseby@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Thursdays 4pm-5pm; First class 9/20/2018

Class Meeting Location: AS9-2072

Required Textbooks: None

Recommended Textbooks: None

Additional notes:

BBS 838 - Communicating Neuroscience: Learning by Doing

Class #: CANCELLED

This course will demonstrate the major elements that distinguish a great presentation, and identify areas in which each student can improve their presentations through peer critiques and self-assessment. Importantly, this class will allow students many opportunities to apply those critiques, and see their skills improve throughout the course. Substitutes for Neuroscience Journal Club in meeting Neuroscience Program requirements.

Prerequisites: Students conducting research in the neuroscience field will have priority if maximum enrollment is reached, but the course is open to students from other Programs and areas of research on a space-available basis

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

Associated Program(s): Immunology & Microbiology

Course Director: Weaver,D

Course Director email: David.Weaver@UMassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Wednesday 12pm-1pm

Class Meeting Location: LRB 716

Required Textbooks:

Recommended Textbooks:

Additional notes: It is likely that either BBS 808 or BBS 838 will be offered, or a hybrid of them, but not both.

BBS 848 - Tutorial in Neuroscience

Class #: 1013

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,D

Course Director email: David.Weaver@UMassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Flexible scheduling available

Class Meeting Location: Location to be determined by participants

Required Textbooks:

Recommended Textbooks:

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

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 860 - BBS Qualifying Exam

Class #: GROUP REGISTERED

Students are required to register for this course in the fall semester of the academic year in which they are to pass their Qualifying Examination.

Prerequisites: None

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

Associated Program(s): Basic & Biomedical Sciences

Course Director: Lane,M

Course Director email: maryellen.lane@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:

BBS 865 - BBS TRAC Meeting

**Class #: GROUP REGISTERED
(MDP ONLY FOR SPRING)**

All graduate students are required to have at least one Thesis Research Advisory Committee (TRAC) meeting each academic year. After passing their Qualifying Examination and selection of their TRAC, students are required to register for this course each fall semester until their Dissertation Advisory Committee is formed.

Prerequisites: None

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

Associated Program(s): Basic & Biomedical Sciences

Course Director: Lane,M

Course Director email: maryellen.lane@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:

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 602A - Advanced Epidemiology & Research Methods

Class #: 2217

Building on basic skills in epidemiology and scientific research methods, this two-semester course will cover research design, sampling, hypothesis development and testing. Students will develop skills in use of clinical and epidemiological databases and national health surveys. In addition, methodological strengths of various quantitative and qualitative techniques and designs will be explored. Students will have problem sets to complete, in addition to assignments to develop original research approaches to specific scientific and clinical questions.

Prerequisites: CTS605A or equivalent or permission from course coordinator

Credits: 3 | **Grading:** Letter

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

Course Director: Jesdale,W

Course Director email: william.jesdale@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Tuesdays and Thursdays from 9am-10:30am

Class Meeting Location: AS8-2042

Required Textbooks: Rothman, K. J., Greenland, S., & Lash, T. L. (2008). Modern epidemiology. Philadelphia: Wolters Kluwer Health/Lippincott Williams & Wilkins. 978-1-4511-9005-2.

Recommended Textbooks: None

Additional notes:

CTS 603A - Generalized Linear Models

Class #: 4018

This course provides an overview of multivariable analysis and advanced analytical strategies for clinical and population health research. Emphasis is on developing an understanding of multivariable modeling in the context of linear, logistic and Poisson regression. Computational lab assignments and two exams will be completed.

Prerequisites: CTS605A, Introduction to Statistics or permission from course coordinator

Credits: 4 | **Grading:** Letter

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

Course Director: Person,S

Course Director email: sharina.person@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Tuesdays and Thursdays from 10:30am-12pm and Wednesdays from 3:30pm-4:30pm

Class Meeting Location: AS8-2072

Required Textbooks: Kleinbaum, D. G. (2008). Applied regression analysis and other multivariable methods. Belmont: Thomson Brooks Cole. ISBN-13: 978-0-495-38496-0

Kleinbaum, D. G., & Klein, M. (2010). Logistic regression: a self-learning text. New York: Springer. ISBN: 978-

Recommended Textbooks: Acock, A. C. (2010). A gentle introduction to stata. College Station, TX: Stata Press. ISBN: 978-1-4419-1741-6

Additional notes:

CTS 605A - Introduction to Clinical Epidemiology and Biostatistics

Class #: 2635

This course reviews basic principles of epidemiology, investigation of disease outbreaks and the application of various observational and experimental research designs and strategies to clinical, epidemiological and translational research. Didactic instruction, readings and problem sets (including lab-based analyses) are utilized to more fully understand epidemics and their causes, as well as various study designs, including cross-sectional studies, case-control studies, cohort designs and randomized clinical trials. Students also will learn how to design surveillance systems and develop and evaluate screening and diagnostic tests. Students are graded on in-class participation and two writing assignments (write-up of lab exercise and in-class student presentation). This is a full semester course with a total of 30 contact hours.

Prerequisites: None

Credits: 3 | **Grading:** Letter

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

Course Director: Baek,J

Course Director email: Jonggyu.Baek@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: 7/5/2018-8/1/2018, Tuesdays and Thursdays from 9am-3pm

Class Meeting Location: AS8-2072 in am; AS7-2072 in pm

Required Textbooks: D'Agostino R.B., Sullivan L.M., Belser A.S. Introductory Applied Biostatistics. Duxbury (Thomson Brooks/Cole), Belmont, CA. 2006. Gordis, Leon. Epidemiology. Fifth Edition. Saunders Elsevier Publishing. 2014.

Recommended Textbooks:

Additional notes:

CTS 611 - Scientific Writing

Class #: 2209

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,R

Course Director email: robert.goldberg@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Wednesdays from 1pm-2pm

Class Meeting Location: AS6-2069

Required Textbooks: D'Agostino, R. B., Sullivan, L. M., & Beiser, A. S. (2006). Introductory applied biostatistics. Belmont, CA: Thomson, Brooks/Cole. ISBN: 053442399X

Recommended Textbooks:

Additional notes:

CTS 620 - Clinical & Translational Research Seminar

Class #: 3877

This course introduces Clinical Translational Research Pathway students in the optional elective in SOM to principles, theory, background and skills required for clinical and translational research. Seven required seminars plus attending a Human Subjects IRB meeting occur in MS1 and there are 6 additional contact hours and a paper required in MS2. Thus course requires participation in approximately 22 contact hours beyond medical school coursework, plus the 10-20 hour CITI certificate.

Prerequisites: successful completion of SOM Clinical Translational Research Pathway MS1 and MS2 requirements and admission to MSCI program

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

Associated Program(s): MS Clinical Investigation

Course Director: Kiefe,C

Course Director email: catarina.kiefe@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Every other Thursday beginning 9/6/2018. Meets either from 12pm-1pm or 3:30pm-5pm. Speak with Robert Goldberg (CVD T32) or Nate Hafer (PiPSS) for further details.

Class Meeting Location: AS8-2072 (3:30pm class) or AS8-2069 (12pm class)

Required Textbooks:

Recommended Textbooks:

Additional notes:

CTS 701 - Systematic Review

Class #: 4076

Description: The purpose of this class is to teach students how to conduct a systematic review, including development of a question of appropriate scope and clinical relevance; development of abstraction tool; selection of articles; and drafting sections of the review, including tables and figures. Class assignments are structured to prepare elements of a journal article.

Prerequisites: None

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

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

Course Director: Ulbricht,C

Course Director email: christine.ulbricht@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Wednesdays 10:00am-12:00pm

Class Meeting Location: AS6.1073

Required Textbooks: None

Recommended Textbooks: None

Additional notes:

CTS 702 - Ethics for Clinical Research

Class #: 2211

This course is designed to provide students with a basic knowledge of ethics that will prepare them to understand and address problems in the ethical conduct of research, as well as understand and address scientific misconduct, including fraud, misrepresentation and conflict of interest. The course also addresses authorship guidelines, IRB regulations and UMass Medical School regulations. Students will also focus on how to design ethical research and evaluate treatment risk, placebo control, ethics of recruitment, dilemmas of informed consent, potential scientific contribution and issues for special populations and conducting research internationally.

Prerequisites: None

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

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

Course Director: Dube,C

Course Director email: Catherine.Dube@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Thursdays from 2:30pm-4:30pm

Class Meeting Location: AS7-2072 (except 9/27 - AS9-2072)

Required Textbooks: Resnik, D. B. (1998). The ethics of science: An introduction. London: Routledge.

0-203-97906-0 (Free Online)

Recommended Textbooks: None

Additional notes:

CTS 729 - Social Epidemiology

Class #: 4071

We will cover the main societal causes implicated in affecting the health of human populations, including hierarchy, racism, gender hierarchy, heteronormativity and ableism. We will focus on methodological approaches to measuring and interpreting these forces and their effects, on both minority and dominant populations.

Prerequisites: CTS 605A or permission of the instructor

Credits: 2 | **Grading:** Letter

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

Course Director: Jesdale,W

Course Director email: william.jesdale@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: 9/5/2018-12/21/2018 Thursdays 12:30-2:30pm

Class Meeting Location: AS6-1073

Required Textbooks: Oakes, J. M., & Kaufman, J. S. (2017). *Methods in social epidemiology*. Hoboken, NJ: John Wiley & Sons.

Recommended Textbooks:

Additional notes:

CTS 735 - Introduction to Implementation Science: Moving Research into Practice in Healthcare and Community Settings

Class #: 2219

This class provides an introduction to what is often referred to as translational, dissemination or implementation research, as well as the broad field of implementation science. Students will learn about the significance and major initiatives associated with moving research into practice, and will be introduced to conceptual and analytic tools (e.g., theories, frameworks) to support work in this area.

Prerequisites: None

Credits: 2 | **Grading:** Letter

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

Course Director: Hogan,T

Course Director email: timothy.hogan@umassmed.edu

Co-Course Director: Houston,T

Co-Course Director email: thomas.houston@umassmed.edu

Course Administrator:

Course Administrator email:

Class Meeting Information: Tuesdays from 1pm-3pm

Class Meeting Location: AS8-2069

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,K

Course Director email: kate.lapane@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Individually arranged

Class Meeting Location:

Required Textbooks:

Recommended Textbooks:

Additional notes:

CTS 802 - Journal Club

Class #: 2213

This journal club provides a forum in which students will discuss current articles and be introduced to advanced 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: Golderbg,R

Course Director email: robert.goldberg@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Wednesdays from 9am-10am

Class Meeting Location: AS6-1073

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 855 - Research Seminar

Class #: 4009

This is an ongoing seminar series meets on a monthly basis throughout the academic year that will be led by individual senior scientists who will discuss their clinical, public health and translational science research. This seminar series will provide trainees with exposure to a wide variety of potential research mentors as well as topic areas to further explore for their thesis research and beyond.

Prerequisites:

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

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

Course Director: Goldberg,R

Course Director email: robert.goldberg@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: 2nd Tuesday of each month from 12pm-1pm

Class Meeting Location: AS9-2072

Required Textbooks:

Recommended Textbooks:

Additional notes:

CTS 860A - Written Qualifying Exam

Class #: 3959

This course number is used for students sitting for the written qualifying exam—an evaluation milestone typically conducted in Spring of their second year of graduate study.

Prerequisites:

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

Associated Program(s): Clinical & Population Health Research

Course Director: Lapane, K

Course Director email: kate.lapane@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:

CTS 865 - CTS TRAC Meeting

Class #: 2221

All graduate students are required to have a TRAC meeting each academic year in the Fall. After passing their Qualifying Exam in January of the second year, and the Thesis Proposal Defense in the Spring or Summer of second year, students are required to register for this course each Fall semester until their Dissertation Examination Committee is formed.

Prerequisites: None

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

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

Course Director: Lapane, K

Course Director email: kate.lapane@umassmed.edu

Co-Course Director: Goldberg, R

Co-Course Director email: robert.goldberg@umassmed.edu

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 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 500 - Building Working Cells and Tissues

Class #: 2667

The goals of the course are to: integrate key principles of biochemistry, physiology, and cell and tissue histology; advance understanding of molecular structures, interactions and processes that promote and regulate cellular function; provide students with foundational material for understanding organ structure, physiology and disease states to be covered in subsequent courses.

Prerequisites: None

Credits: 5 | **Grading:** Letter

Associated Program(s): Health Sciences Preparatory Program

Course Director: Royer, W

Course Director email: william.royer@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Please contact course director for details

Class Meeting Location:

Required Textbooks: Lippincott's Illustrated Reviews - Biochemistry. D.R. Ferrier.

Recommended Textbooks:

Additional notes:

HSP 502A - Medical Physiology and Histology Part A

Class #: 2671

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: None

Credits: 5 | **Grading:** Letter

Associated Program(s): Health Sciences Preparatory Program

Course Director: Jonassen, J

Course Director email: julie.jonassen@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator: Darling, L

Course Administrator email: Lisa.Darling@umassmed.edu

Class Meeting Information: Please contact course director for details

Class Meeting Location: Amphitheater 2, ITLC

Required Textbooks:

Recommended Textbooks: Berne & Levy Physiology

7th Edition

Authors: Bruce Koeppen, Bruce Stanton

Hardcover ISBN: 9780323393942

eBook ISBN: 9780323523417

Additional notes:

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) – one hour student group discussion/preparation; one hour with course-specific faculty, alternating weekly;

HSPF advisor meetings: (30 minutes/wk) - individual (one per month) and group meeting (one per month) with HSPF advisors. Specific activity includes rewrite of application/personal statement.

Prerequisites:

Credits: 2 | **Grading:** Letter

Associated Program(s): Health Sciences Preparatory Program

Course Director: Hines,D

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

Co-Course Director: Knight,K

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

Course Administrator:

Course Administrator email:

Class Meeting Information: Please contact course director for details

Class Meeting Location:

Required Textbooks:

Recommended Textbooks:

Additional notes:

MD/PhD Courses

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

Class #: 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,S

Course Director email: silvia.corvera@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Please contact course director for details

Class Meeting Location:

Required Textbooks:

Recommended Textbooks:

Additional notes:

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

Class #: See class number list

Course Goals: The goal for the course is to expose MD/PhD students to areas of basic and translational research, and to the knowledge and 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 for a minimum of one hour per week over the course of the semester (15 hours total). The focus and experimental methodologies of the investigators research will be explored in-depth through analysis of the primary literature and participation in individual and/or group discussion.

Prerequisites: None

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

Associated Program(s): MD/PhD

Course Director: Corvera,S

Course Director email: silvia.corvera@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Please contact course director for details

Class Meeting Location:

Required Textbooks:

Recommended Textbooks:

Additional notes:

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

Class #: 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,S

Course Director email: silvia.corvera@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Please contact course director for details

Class Meeting Location:

Required Textbooks:

Recommended Textbooks:

Additional notes:

MDP 741 - Introduction to Translational Medicine

Class #: 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,S

Course Director email: silvia.corvera@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Please contact course director for details

Class Meeting Location:

Required Textbooks:

Recommended Textbooks:

Additional notes:

MDP 742 - MD/PhD HIPAA and OSHA Certification

Class #: GROUP REGISTERED

Certification module of HIPPA and OSHA that students enrolled in the PhD portion of the program are required to maintain annually (within the first two weeks of GSBS Fall semester) each year. This is an online WebCt class which can be accessed by each MD/PhD student registered for this course in PSSA. The scores will be monitored by the MD/PhD program administrator during the student's PhD years.

Prerequisites: None

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

Associated Program(s): MD/PhD

Course Director: Michelson,A

Course Director email: anne.michelson@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Please contact course director for details

Class Meeting Location:

Required Textbooks: None

Recommended Textbooks: None

Additional notes:

MDP 744 - MD/PhD Learning Communities

Class #: 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: Szabo,G

Course Director email: Gyongyi.Szabo@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Please contact course director for details

Class Meeting Location:

Required Textbooks:

Recommended Textbooks:

Additional notes:

MDP 800 - MD/PhD Seminar

Class #: 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,A

Course Director email: anne.michelson@umassmed.edu

Co-Course Director:

Co-Course Director email:

Course Administrator:

Course Administrator email:

Class Meeting Information: Please contact course director for details

Class Meeting Location:

Required Textbooks:

Recommended Textbooks:

Additional notes:

CLASS NUMBERS FOR REGISTRATION

Basic & Biomedical Science Non-Research Class Numbers

Class Nbr	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2121	BBS	601	1	Professionalism & Res. Conduct	Imbalzano	Anthony
3871	BBS	602	1	Preparation Qualifying Exam	Lane	Mary
3609	BBS	603	1	Resp.Conduct Res. Post Doc.Sch	Imbalzano	Anthony
3533	BBS	614	1	Foundations in Biomedical Scie	Theurkauf	William
CANCELLED	BBS	715	1	Chemical Biology	Miller	Stephen
1007	BBS	716	1	Molecular Biophysics	Zitzewitz	Jill
4001	BBS	725	1	Cancer Biology	Mercurio	Arthur
CANCELLED	BBS	738	1	Eukaryotic Gene Expression	Peterson	Craig
4003	BBS	741	1	Adv Topics in Bioinformatics	Weng	Zhiping
2641	BBS	748	ERL	Intro.to Cellular Metab. & Dis	Lewis	Brian
4004	BBS	782	1	Bases of Brain Disease	Punzo	Claudio
4005	BBS	783	1	Genetic Basis of Behavior	Xiang	Yang
1009	BBS	801	1	RNA Biology Journal Club	Ambros	Victor
3875	BBS	808	1	Journal Club in Neuroscience	Weaver	David
1011	BBS	810	1	Grad. Student Seminar Series	Kobertz	William
2185	BBS	821	1	Molecul & Cellular Immunology	Kang	Joonsoo
CANCELLED	BBS	822	1	Advanced Animal Virology	Morrison	Trudy
CANCELLED	BBS	823	1	Adv Bacterial Pathogenesis	Goguen	Jon
3925	BBS	831	1	Interprof. Edu. in Clin. Neuro	Benjamin	Sheldon
1015	BBS	833	1	IVR Graduate Student Seminars	Huseby	Eric
CANCELLED	BBS	838	1	Communicating Neuroscience	Weaver	David
1013	BBS	848	1	Tutorial in Neuroscience	Weaver	David
2033	BBS	860	1	BBS Qualifying Exam	Lane	Mary
2065	BBS	865	1	BBS TRAC Meeting	Lane	Mary
3443	BBS	865	MDP	BBS TRAC Meeting	Lane	Mary

Basic & Biomedical Science Research Class Numbers

Class Nbr	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2567	BBS	850	ERL	Laboratory Rotation	Alkema	Mark
3695	BBS	850	ERL	Laboratory Rotation	ANACLET	Christelle
2663	BBS	850	ERL	Laboratory Rotation	Aroian	Raffi
2479	BBS	850	ERL	Laboratory Rotation	Baehrecke	Eric
2581	BBS	850	ERL	Laboratory Rotation	Behar	Samuel
2595	BBS	850	ERL	Laboratory Rotation	Benanti	Jennifer
2481	BBS	850	ERL	Laboratory Rotation	Berg	Leslie
2553	BBS	850	ERL	Laboratory Rotation	Bergmann	Andreas
3889	BBS	850	ERL	Laboratory Rotation	BYRNE	Alexandra Catherine
4033	BBS	850	ERL	Laboratory Rotation	Corvera	Silvia
2485	BBS	850	ERL	Laboratory Rotation	Czech	Michael
4034	BBS	850	ERL	Laboratory Rotation	Dekker	Job
4035	BBS	850	ERL	Laboratory Rotation	Donahue	Kevin
2529	BBS	850	ERL	Laboratory Rotation	Futai	Kensuke
2463	BBS	850	ERL	Laboratory Rotation	Gao	Fen-Biao
2593	BBS	850	ERL	Laboratory Rotation	Garber	Manuel
2441	BBS	850	ERL	Laboratory Rotation	Green	Michael
2487	BBS	850	ERL	Laboratory Rotation	Guertin	David
2537	BBS	850	ERL	Laboratory Rotation	Harris	John
3645	BBS	850	ERL	Laboratory Rotation	Haynes	Cole
2585	BBS	850	ERL	Laboratory Rotation	Kelch	Brian
2541	BBS	850	ERL	Laboratory Rotation	Khanna	Hemant
2613	BBS	850	ERL	Laboratory Rotation	Khvorova	Anastasia
2547	BBS	850	ERL	Laboratory Rotation	Korostelev	Andrei
2467	BBS	850	ERL	Laboratory Rotation	Landers	John
3561	BBS	850	ERL	Laboratory Rotation	Lawson	Nathan
2617	BBS	850	ERL	Laboratory Rotation	Lee	Michael
2495	BBS	850	ERL	Laboratory Rotation	Li	Hong-Sheng
2563	BBS	850	ERL	Laboratory Rotation	Luban	Jeremy

Class Nbr	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2561	BBS	850	ERL	Laboratory Rotation	Maehr	Rene
2621	BBS	850	ERL	Laboratory Rotation	Melikian	Haley
2591	BBS	850	ERL	Laboratory Rotation	Mercurio	Arthur
3595	BBS	850	ERL	Laboratory Rotation	MITCHELL	Amir Zadok
2627	BBS	850	ERL	Laboratory Rotation	Peterson	Craig
2543	BBS	850	ERL	Laboratory Rotation	Punzo	Claudio
4036	BBS	850	ERL	Laboratory Rotation	Ram	Sanjay
2527	BBS	850	ERL	Laboratory Rotation	Rando	Oliver
3549	BBS	850	ERL	Laboratory Rotation	REBOLDI	Andrea
2639	BBS	850	ERL	Laboratory Rotation	Rhind	Nicholas
2503	BBS	850	ERL	Laboratory Rotation	Rock	Kenneth
3895	BBS	850	ERL	Laboratory Rotation	Rogaev	Evgeny
2649	BBS	850	ERL	Laboratory Rotation	Schafer	Dorothy
2439	BBS	850	ERL	Laboratory Rotation	Schiffer	Celia
4037	BBS	850	ERL	Laboratory Rotation	Shaffer	Scott
3701	BBS	850	ERL	Laboratory Rotation	Shim	Jae-Hyuck
2525	BBS	850	ERL	Laboratory Rotation	Silverman	Neal
2509	BBS	850	ERL	Laboratory Rotation	Song	Jie
2625	BBS	850	ERL	Laboratory Rotation	Szabo	Gyongyi
2647	BBS	850	ERL	Laboratory Rotation	Thompson	Paul
2551	BBS	850	ERL	Laboratory Rotation	Trivedi	Chinmay
2473	BBS	850	ERL	Laboratory Rotation	Wang	Jennifer
3699	BBS	850	ERL	Laboratory Rotation	Watts	Jonathan
2515	BBS	850	ERL	Laboratory Rotation	Weng	Zhiping
3535	BBS	850	ERL	Laboratory Rotation	Wolfe	Scot
2557	BBS	850	ERL	Laboratory Rotation	Xiang	Yang
4038	BBS	850	ERL	Laboratory Rotation	Xu	Zuoshang
2653	BBS	850	ERL	Laboratory Rotation	ZHUGE	Ronghua
2675	BBS	850	L1	Laboratory Rotation	Alkema	Mark
3711	BBS	850	L1	Laboratory Rotation	ANACLET	Christelle

Class Nbr	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3027	BBS	850	L1	Laboratory Rotation	Aroian	Raffi
2683	BBS	850	L1	Laboratory Rotation	Baehrecke	Eric
2985	BBS	850	L1	Laboratory Rotation	Behar	Samuel
2943	BBS	850	L1	Laboratory Rotation	Benanti	Jennifer
2685	BBS	850	L1	Laboratory Rotation	Berg	Leslie
2973	BBS	850	L1	Laboratory Rotation	Bergmann	Andreas
3705	BBS	850	L1	Laboratory Rotation	BYRNE	Alexandra Catherine
2703	BBS	850	L1	Laboratory Rotation	Corvera	Silvia
2705	BBS	850	L1	Laboratory Rotation	Czech	Michael
2709	BBS	850	L1	Laboratory Rotation	Dekker	Job
4039	BBS	850	L1	Laboratory Rotation	Donahue	Kevin
2713	BBS	850	L1	Laboratory Rotation	EMERY	Patrick
2721	BBS	850	L1	Laboratory Rotation	Francis	Michael
2949	BBS	850	L1	Laboratory Rotation	Futai	Kensuke
2931	BBS	850	L1	Laboratory Rotation	Gao	Fen-Biao
2993	BBS	850	L1	Laboratory Rotation	Garber	Manuel
2737	BBS	850	L1	Laboratory Rotation	Green	Michael
2915	BBS	850	L1	Laboratory Rotation	Guertin	David
2953	BBS	850	L1	Laboratory Rotation	Harris	John
3647	BBS	850	L1	Laboratory Rotation	Haynes	Cole
2751	BBS	850	L1	Laboratory Rotation	Kang	Joonsoo
2753	BBS	850	L1	Laboratory Rotation	Kaufman	Paul
2989	BBS	850	L1	Laboratory Rotation	Kelch	Brian
2957	BBS	850	L1	Laboratory Rotation	Khanna	Hemant
3007	BBS	850	L1	Laboratory Rotation	Khvorova	Anastasia
2891	BBS	850	L1	Laboratory Rotation	Kim	Jason
2965	BBS	850	L1	Laboratory Rotation	Korostelev	Andrei
2903	BBS	850	L1	Laboratory Rotation	Landers	John
2769	BBS	850	L1	Laboratory Rotation	Lawson	Nathan
3009	BBS	850	L1	Laboratory Rotation	Lee	Michael

Class Nbr	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2771	BBS	850	L1	Laboratory Rotation	Levitz	Stuart
2775	BBS	850	L1	Laboratory Rotation	Li	Hong-Sheng
2889	BBS	850	L1	Laboratory Rotation	Li	Shaoguang
2981	BBS	850	L1	Laboratory Rotation	Luban	Jeremy
2979	BBS	850	L1	Laboratory Rotation	Maehr	Rene
2785	BBS	850	L1	Laboratory Rotation	Massi	Francesca
2791	BBS	850	L1	Laboratory Rotation	Melikian	Haley
2795	BBS	850	L1	Laboratory Rotation	Mercurio	Arthur
2797	BBS	850	L1	Laboratory Rotation	Miller	Stephen
3591	BBS	850	L1	Laboratory Rotation	MITCHELL	Amir Zadok
2969	BBS	850	L1	Laboratory Rotation	Muller	Christian
2803	BBS	850	L1	Laboratory Rotation	Munson	Maryann
4012	BBS	850	L1	Laboratory Rotation	PAI	Athma Anjali
2813	BBS	850	L1	Laboratory Rotation	Peterson	Craig
2961	BBS	850	L1	Laboratory Rotation	Punzo	Claudio
2817	BBS	850	L1	Laboratory Rotation	Ram	Sanjay
2819	BBS	850	L1	Laboratory Rotation	Rando	Oliver
3547	BBS	850	L1	Laboratory Rotation	REBOLDI	Andrea
2821	BBS	850	L1	Laboratory Rotation	Rhind	Nicholas
2823	BBS	850	L1	Laboratory Rotation	Richter	Joel
2825	BBS	850	L1	Laboratory Rotation	Rivera Perez	Jaime
2827	BBS	850	L1	Laboratory Rotation	Rock	Kenneth
3897	BBS	850	L2	Laboratory Rotation	Rogaev	Evgeny
3031	BBS	850	L1	Laboratory Rotation	Schafer	Dorothy
2841	BBS	850	L1	Laboratory Rotation	Schiffer	Celia
4040	BBS	850	L1	Laboratory Rotation	Shaffer	Scott
3707	BBS	850	L1	Laboratory Rotation	Shim	Jae-Hyuck
3994	BBS	850	L1	Laboratory Rotation	SHOHET	Jason Matthew
2847	BBS	850	L1	Laboratory Rotation	Silverman	Neal
2851	BBS	850	L1	Laboratory Rotation	Socolovsky	Merav

Class Nbr	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2853	BBS	850	L1	Laboratory Rotation	Song	Jie
2859	BBS	850	L1	Laboratory Rotation	Szabo	Gyongyi
2863	BBS	850	L1	Laboratory Rotation	Theurkauf	William
3023	BBS	850	L1	Laboratory Rotation	Thompson	Paul
3003	BBS	850	L1	Laboratory Rotation	Torres	Eduardo
2971	BBS	850	L1	Laboratory Rotation	Trivedi	Chinmay
2939	BBS	850	L1	Laboratory Rotation	Wang	Jennifer
3715	BBS	850	L1	Laboratory Rotation	Watts	Jonathan
2875	BBS	850	L1	Laboratory Rotation	Weng	Zhiping
2887	BBS	850	L1	Laboratory Rotation	Wolfe	Scot
2977	BBS	850	L1	Laboratory Rotation	Xiang	Yang
2879	BBS	850	L1	Laboratory Rotation	Xu	Zuoshang
2883	BBS	850	L1	Laboratory Rotation	Zhang	Hong
2885	BBS	850	L1	Laboratory Rotation	ZHUGE	Ronghua
3035	BBS	850	L2	Laboratory Rotation	Alkema	Mark
3717	BBS	850	L2	Laboratory Rotation	ANACLET	Christelle
3389	BBS	850	L2	Laboratory Rotation	Aroian	Raffi
3043	BBS	850	L2	Laboratory Rotation	Baehrecke	Eric
3349	BBS	850	L2	Laboratory Rotation	Behar	Samuel
3307	BBS	850	L2	Laboratory Rotation	Benanti	Jennifer
3045	BBS	850	L2	Laboratory Rotation	Berg	Leslie
3335	BBS	850	L2	Laboratory Rotation	Bergmann	Andreas
3721	BBS	850	L2	Laboratory Rotation	BYRNE	Alexandra Catherine
3065	BBS	850	L2	Laboratory Rotation	Corvera	Silvia
3067	BBS	850	L2	Laboratory Rotation	Czech	Michael
3071	BBS	850	L2	Laboratory Rotation	Dekker	Job
4041	BBS	850	L2	Laboratory Rotation	Donahue	Kevin
3075	BBS	850	L2	Laboratory Rotation	EMERY	Patrick
3083	BBS	850	L2	Laboratory Rotation	Francis	Michael
3313	BBS	850	L2	Laboratory Rotation	Futai	Kensuke

Class Nbr	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3293	BBS	850	L2	Laboratory Rotation	Gao	Fen-Biao
3357	BBS	850	L2	Laboratory Rotation	Garber	Manuel
3099	BBS	850	L2	Laboratory Rotation	Green	Michael
3277	BBS	850	L2	Laboratory Rotation	Guertin	David
3315	BBS	850	L2	Laboratory Rotation	Harris	John
3649	BBS	850	L2	Laboratory Rotation	Haynes	Cole
3113	BBS	850	L2	Laboratory Rotation	Kang	Joonsoo
3115	BBS	850	L2	Laboratory Rotation	Kaufman	Paul
3353	BBS	850	L2	Laboratory Rotation	Kelch	Brian
3319	BBS	850	L2	Laboratory Rotation	Khanna	Hemant
3367	BBS	850	L2	Laboratory Rotation	Khvorova	Anastasia
3253	BBS	850	L2	Laboratory Rotation	Kim	Jason
3327	BBS	850	L2	Laboratory Rotation	Korostelev	Andrei
3265	BBS	850	L2	Laboratory Rotation	Landers	John
3131	BBS	850	L2	Laboratory Rotation	Lawson	Nathan
3369	BBS	850	L2	Laboratory Rotation	Lee	Michael
3133	BBS	850	L2	Laboratory Rotation	Levitz	Stuart
3137	BBS	850	L2	Laboratory Rotation	Li	Hong-Sheng
3251	BBS	850	L2	Laboratory Rotation	Li	Shaoguang
3345	BBS	850	L2	Laboratory Rotation	Luban	Jeremy
3343	BBS	850	L2	Laboratory Rotation	Maehr	Rene
3147	BBS	850	L2	Laboratory Rotation	Massi	Francesca
3153	BBS	850	L2	Laboratory Rotation	Melikian	Haley
3157	BBS	850	L2	Laboratory Rotation	Mercurio	Arthur
3159	BBS	850	L2	Laboratory Rotation	Miller	Stephen
3593	BBS	850	L2	Laboratory Rotation	MITCHELL	Amir Zadok
3331	BBS	850	L2	Laboratory Rotation	Muller	Christian
3165	BBS	850	L2	Laboratory Rotation	Munson	Maryann
4013	BBS	850	L2	Laboratory Rotation	PAI	Athma Anjali
3175	BBS	850	L2	Laboratory Rotation	Peterson	Craig

Class Nbr	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3323	BBS	850	L2	Laboratory Rotation	Punzo	Claudio
3179	BBS	850	L2	Laboratory Rotation	Ram	Sanjay
3181	BBS	850	L2	Laboratory Rotation	Rando	Oliver
3183	BBS	850	L2	Laboratory Rotation	Rhind	Nicholas
3185	BBS	850	L2	Laboratory Rotation	Richter	Joel
3187	BBS	850	L2	Laboratory Rotation	Rivera Perez	Jaime
3189	BBS	850	L2	Laboratory Rotation	Rock	Kenneth
3899	BBS	850	L1	Laboratory Rotation	Rogaev	Evgeny
3393	BBS	850	L2	Laboratory Rotation	Schafer	Dorothy
3203	BBS	850	L2	Laboratory Rotation	Schiffer	Celia
4042	BBS	850	L2	Laboratory Rotation	Shaffer	Scott
3723	BBS	850	L2	Laboratory Rotation	Shim	Jae-Hyuck
3995	BBS	850	L2	Laboratory Rotation	SHOHET	Jason Matthew
3209	BBS	850	L2	Laboratory Rotation	Silverman	Neal
3213	BBS	850	L2	Laboratory Rotation	Socolovsky	Merav
3215	BBS	850	L2	Laboratory Rotation	Song	Jie
3221	BBS	850	L2	Laboratory Rotation	Szabo	Gyongyi
3225	BBS	850	L2	Laboratory Rotation	Theurkauf	William
3385	BBS	850	L2	Laboratory Rotation	Thompson	Paul
3675	BBS	850	L2	Laboratory Rotation	Torres	Eduardo
3333	BBS	850	L2	Laboratory Rotation	Trivedi	Chinmay
3301	BBS	850	L2	Laboratory Rotation	Wang	Jennifer
3673	BBS	850	L2	Laboratory Rotation	Watts	Jonathan
3237	BBS	850	L2	Laboratory Rotation	Weng	Zhiping
3249	BBS	850	L2	Laboratory Rotation	Wolfe	Scot
3339	BBS	850	L2	Laboratory Rotation	Xiang	Yang
3241	BBS	850	L2	Laboratory Rotation	Xu	Zuoshang
3245	BBS	850	L2	Laboratory Rotation	Zhang	Hong
3247	BBS	850	L2	Laboratory Rotation	ZHUGE	Ronghua
1017	BBS	870	1	Prequalifying Research	Alkema	Mark

1733	BBS	870	1	Prequalifying Research	Allison	Jeroan
2011	BBS	870	1	Prequalifying Research	Alonso	Laura
1019	BBS	870	1	Prequalifying Research	Ambros	Victor
3777	BBS	870	1	Prequalifying Research	ANACLET	Christelle
1021	BBS	870	1	Prequalifying Research	ANDERSON	Frederick Arthur
2151	BBS	870	1	Prequalifying Research	Aroian	Raffi
1023	BBS	870	1	Prequalifying Research	Aronin	Neil
1025	BBS	870	1	Prequalifying Research	Baehrecke	Eric
1775	BBS	870	1	Prequalifying Research	Bailey	Jeffrey
1979	BBS	870	1	Prequalifying Research	Behar	Samuel
1847	BBS	870	1	Prequalifying Research	Benanti	Jennifer
1777	BBS	870	1	Prequalifying Research	Benard	Claire
1027	BBS	870	1	Prequalifying Research	Berg	Leslie
1937	BBS	870	1	Prequalifying Research	Bergmann	Andreas
1029	BBS	870	1	Prequalifying Research	Bolon	Daniel
1233	BBS	870	1	Prequalifying Research	Bosco	Daryl
1779	BBS	870	1	Prequalifying Research	Boyer	Edward
1981	BBS	870	1	Prequalifying Research	Brass	Abraham
1781	BBS	870	1	Prequalifying Research	Brehm	Michael
2053	BBS	870	1	Prequalifying Research	Brewer	Judson
3473	BBS	870	1	Prequalifying Research	Brewster	Robert
1237	BBS	870	1	Prequalifying Research	Brown	Robert
1031	BBS	870	1	Prequalifying Research	Budnik	Vivian
3765	BBS	870	1	Prequalifying Research	BYRNE	Alexandra Catherine
1033	BBS	870	1	Prequalifying Research	Cantor	Sharon
1035	BBS	870	1	Prequalifying Research	Carruthers	Anthony
1037	BBS	870	1	Prequalifying Research	Castilla	Lucio
3475	BBS	870	1	Prequalifying Research	Cavacini	Lisa
1783	BBS	870	1	Prequalifying Research	Ceol	Craig
1039	BBS	870	1	Prequalifying Research	CHAN	Francis Ka Ming
1041	BBS	870	1	Prequalifying Research	Clapham	Paul

1043	BBS	870	1	Prequalifying Research	Clark	Robin
1735	BBS	870	1	Prequalifying Research	Cooper	Marcus
1045	BBS	870	1	Prequalifying Research	Corvera	Silvia
1047	BBS	870	1	Prequalifying Research	Czech	Michael
1049	BBS	870	1	Prequalifying Research	Davis	Roger
1051	BBS	870	1	Prequalifying Research	Dekker	Job
4043	BBS	870	1	Prequalifying Research	Donahue	Kevin
1053	BBS	870	1	Prequalifying Research	Doxsey	Stephen
1055	BBS	870	1	Prequalifying Research	EMERY	Patrick
1849	BBS	870	1	Prequalifying Research	Fazzio	Thomas
1057	BBS	870	1	Prequalifying Research	Finberg	Robert
1059	BBS	870	1	Prequalifying Research	Fitzgerald	Katherine
1061	BBS	870	1	Prequalifying Research	Flotte	Terence
1063	BBS	870	1	Prequalifying Research	Francis	Michael
1917	BBS	870	1	Prequalifying Research	FREEDMAN	Jane
1065	BBS	870	1	Prequalifying Research	Freeman	Marc
1881	BBS	870	1	Prequalifying Research	Futai	Kensuke
1785	BBS	870	1	Prequalifying Research	Gao	Fen-Biao
1069	BBS	870	1	Prequalifying Research	Gao	Guangping
2001	BBS	870	1	Prequalifying Research	Garber	Manuel
1067	BBS	870	1	Prequalifying Research	Gardner	Paul
1859	BBS	870	1	Prequalifying Research	Goguen	Jon
1071	BBS	870	1	Prequalifying Research	Goldberg	Robert
2175	BBS	870	1	Prequalifying Research	Golenbock	Douglas
1073	BBS	870	1	Prequalifying Research	Gottlinger	Heinrich
1075	BBS	870	1	Prequalifying Research	Gravallese	Ellen
1077	BBS	870	1	Prequalifying Research	Green	Michael
3943	BBS	870	1	Prequalifying Research	GREER	Paul Lieberman
1079	BBS	870	1	Prequalifying Research	Greiner	Dale
1999	BBS	870	1	Prequalifying Research	Grunwald	David
1739	BBS	870	1	Prequalifying Research	Guertin	David

1871	BBS	870	1	Prequalifying Research	Han	Gang
1887	BBS	870	1	Prequalifying Research	Harris	John
3651	BBS	870	1	Prequalifying Research	Haynes	Cole
1081	BBS	870	1	Prequalifying Research	Hayward	Lawrence
2045	BBS	870	1	Prequalifying Research	Huh	Jun
1083	BBS	870	1	Prequalifying Research	Huseby	Eric
1085	BBS	870	1	Prequalifying Research	Imbalzano	Anthony
1087	BBS	870	1	Prequalifying Research	Ip	Yicktung
3773	BBS	870	1	Prequalifying Research	IRAZOQUI	Javier Elbio
1089	BBS	870	1	Prequalifying Research	Jacobson	Allan
2019	BBS	870	1	Prequalifying Research	Jones	Peter
1091	BBS	870	1	Prequalifying Research	Jones	Stephen
1093	BBS	870	1	Prequalifying Research	Kang	Joonsoo
2153	BBS	870	1	Prequalifying Research	Karlsson	Elinor
1095	BBS	870	1	Prequalifying Research	Kaufman	Paul
1787	BBS	870	1	Prequalifying Research	Keaney	John
1983	BBS	870	1	Prequalifying Research	Kelch	Brian
1097	BBS	870	1	Prequalifying Research	Kelliher	Michelle
1883	BBS	870	1	Prequalifying Research	Kennedy	David
1869	BBS	870	1	Prequalifying Research	Khanna	Hemant
2035	BBS	870	1	Prequalifying Research	Khvorova	Anastasia
1741	BBS	870	1	Prequalifying Research	Kiefe	Catarina
3477	BBS	870	1	Prequalifying Research	Kim	Dohoon
1231	BBS	870	1	Prequalifying Research	Kim	Jason
1099	BBS	870	1	Prequalifying Research	King	Jean
1101	BBS	870	1	Prequalifying Research	Kobertz	William
1103	BBS	870	1	Prequalifying Research	Kornfeld	Hardy
1911	BBS	870	1	Prequalifying Research	Korostelev	Andrei
1105	BBS	870	1	Prequalifying Research	Kowalik	Timothy
1107	BBS	870	1	Prequalifying Research	Kurt-Jones	Evelyn
1789	BBS	870	1	Prequalifying Research	Landers	John

2017	BBS	870	1	Prequalifying Research	Lane	Mary
1109	BBS	870	1	Prequalifying Research	Lawrence	Jeanne
1111	BBS	870	1	Prequalifying Research	Lawson	Nathan
2041	BBS	870	1	Prequalifying Research	Lee	Michael
2177	BBS	870	1	Prequalifying Research	Lemos	Jose
1113	BBS	870	1	Prequalifying Research	Levitz	Stuart
1115	BBS	870	1	Prequalifying Research	Lewis	Brian
1117	BBS	870	1	Prequalifying Research	Li	Hong-Sheng
1229	BBS	870	1	Prequalifying Research	Li	Shaoguang
1119	BBS	870	1	Prequalifying Research	Libraty	Daniel
1121	BBS	870	1	Prequalifying Research	Lien	Egil
2021	BBS	870	1	Prequalifying Research	Litvak	Vladimir
1791	BBS	870	1	Prequalifying Research	Lois	Carlos
1123	BBS	870	1	Prequalifying Research	Lu	Shan
1947	BBS	870	1	Prequalifying Research	Luban	Jeremy
1125	BBS	870	1	Prequalifying Research	Luckmann	Roger
1945	BBS	870	1	Prequalifying Research	Maehr	Rene
1763	BBS	870	1	Prequalifying Research	Mandrekar	Pranoti
1239	BBS	870	1	Prequalifying Research	Mao	Junhao
1949	BBS	870	1	Prequalifying Research	Martin	Gilles
1127	BBS	870	1	Prequalifying Research	Massi	Francesca
1129	BBS	870	1	Prequalifying Research	Matthews	Charles
1131	BBS	870	1	Prequalifying Research	McCollum	Dannel
1241	BBS	870	1	Prequalifying Research	McCormick	Beth
1133	BBS	870	1	Prequalifying Research	Melikian	Haley
1135	BBS	870	1	Prequalifying Research	Mello	Craig
1137	BBS	870	1	Prequalifying Research	Mercurio	Arthur
2031	BBS	870	1	Prequalifying Research	Miller	Stephen
3597	BBS	870	1	Prequalifying Research	MITCHELL	Amir Zadok
1885	BBS	870	1	Prequalifying Research	Moore	Constance
1139	BBS	870	1	Prequalifying Research	Moore	Melissa

1765	BBS	870	1	Prequalifying Research	Moormann	Ann
1141	BBS	870	1	Prequalifying Research	Morrison	Trudy
1925	BBS	870	1	Prequalifying Research	Muller	Christian
1143	BBS	870	1	Prequalifying Research	Munson	Maryann
1145	BBS	870	1	Prequalifying Research	Newburger	Peter
1147	BBS	870	1	Prequalifying Research	Ockene	Judith
3769	BBS	870	1	Prequalifying Research	Ortiz-Miranda	Sonia
1727	BBS	870	1	Prequalifying Research	Ostroff	Gary
4014	BBS	870	1	Prequalifying Research	PAI	Athma Anjali
1149	BBS	870	1	Prequalifying Research	Paydarfar	David
1151	BBS	870	1	Prequalifying Research	Pazour	Gregory
1153	BBS	870	1	Prequalifying Research	Peterson	Craig
1155	BBS	870	1	Prequalifying Research	Pryciak	Peter
2131	BBS	870	1	Prequalifying Research	Pukkila-Worley	Read
1889	BBS	870	1	Prequalifying Research	Punzo	Claudio
1157	BBS	870	1	Prequalifying Research	Ram	Sanjay
1159	BBS	870	1	Prequalifying Research	Rando	Oliver
3553	BBS	870	1	Prequalifying Research	REBOLDI	Andrea
1161	BBS	870	1	Prequalifying Research	Rhind	Nicholas
1163	BBS	870	1	Prequalifying Research	Richter	Joel
1165	BBS	870	1	Prequalifying Research	Rivera Perez	Jaime
1167	BBS	870	1	Prequalifying Research	Rock	Kenneth
3901	BBS	870	1	Prequalifying Research	Rogaev	Evgeny
1169	BBS	870	1	Prequalifying Research	Ross	Alonzo
1793	BBS	870	1	Prequalifying Research	Rothstein	Ann
1171	BBS	870	1	Prequalifying Research	Royer	William
1173	BBS	870	1	Prequalifying Research	Ruiz De Luzuriaga	Katherine
1175	BBS	870	1	Prequalifying Research	Ryder	Sean
1177	BBS	870	1	Prequalifying Research	Sagerstrom	Charles
1179	BBS	870	1	Prequalifying Research	Sasseti	Christopher
2155	BBS	870	1	Prequalifying Research	Schafer	Dorothy

1181	BBS	870	1	Prequalifying Research	Schiffer	Celia
1197	BBS	870	1	Prequalifying Research	Selin	Liisa
1737	BBS	870	1	Prequalifying Research	Sena Esteves	Miguel
4044	BBS	870	1	Prequalifying Research	Shaffer	Scott
1183	BBS	870	1	Prequalifying Research	Shaw	Leslie
3767	BBS	870	1	Prequalifying Research	Shim	Jae-Hyuck
3996	BBS	870	1	Prequalifying Research	SHOHET	Jason Matthew
1185	BBS	870	1	Prequalifying Research	Silverman	Neal
1187	BBS	870	1	Prequalifying Research	Sluder	Greenfield
1189	BBS	870	1	Prequalifying Research	Socolovsky	Merav
1191	BBS	870	1	Prequalifying Research	Song	Jie
2133	BBS	870	1	Prequalifying Research	Sontheimer	Erik
1193	BBS	870	1	Prequalifying Research	Stein	Gary
1195	BBS	870	1	Prequalifying Research	Stern	Lawrence
1923	BBS	870	1	Prequalifying Research	Swain	Susan
1199	BBS	870	1	Prequalifying Research	Szabo	Gyongyi
1227	BBS	870	1	Prequalifying Research	Tapper	Andrew
1201	BBS	870	1	Prequalifying Research	Theurkauf	William
2135	BBS	870	1	Prequalifying Research	Thompson	Paul
1203	BBS	870	1	Prequalifying Research	Tissenbaum	Heidi
1935	BBS	870	1	Prequalifying Research	Trivedi	Chinmay
1205	BBS	870	1	Prequalifying Research	Urano	Fumihiko
1207	BBS	870	1	Prequalifying Research	Walhout	Albertha
1943	BBS	870	1	Prequalifying Research	Walker	Amy
4028	BBS	870	1	Prequalifying Research	WANG	Bo
1795	BBS	870	1	Prequalifying Research	Wang	Jennifer
1797	BBS	870	1	Prequalifying Research	Waring	Molly
3775	BBS	870	1	Prequalifying Research	Watts	Jonathan
1209	BBS	870	1	Prequalifying Research	Weaver	David
1211	BBS	870	1	Prequalifying Research	Welsh	Raymond
1213	BBS	870	1	Prequalifying Research	Weng	Zhiping

1215	BBS	870	1	Prequalifying Research	Wolfe	Scot
1217	BBS	870	1	Prequalifying Research	Woodland	Robert
1941	BBS	870	1	Prequalifying Research	Xiang	Yang
1219	BBS	870	1	Prequalifying Research	Xu	Zuoshang
2157	BBS	870	1	Prequalifying Research	Xue	Wen
2055	BBS	870	1	Prequalifying Research	Yu	Hong
1221	BBS	870	1	Prequalifying Research	Zamore	Phillip
1235	BBS	870	1	Prequalifying Research	Zeldovich	Konstantin
1223	BBS	870	1	Prequalifying Research	Zhang	Hong
1225	BBS	870	1	Prequalifying Research	ZHUGE	Ronghua
1939	BBS	870	1	Prequalifying Research	Ziedonis	Douglas
3727	BBS	870	MDP	Prequalifying Research	Baehrecke	Eric
3729	BBS	870	MDP	Prequalifying Research	Boudreaux	Edwin
3731	BBS	870	MDP	Prequalifying Research	Khvorova	Anastasia
3733	BBS	870	MDP	Prequalifying Research	Peterson	Craig
3735	BBS	870	MDP	Prequalifying Research	Pukkila-Worley	Read
3737	BBS	870	MDP	Prequalifying Research	Rhind	Nicholas
4022	BBS	870	MDP	Prequalifying Research	SHOHET	Jason Matthew
3953	BBS	870	MDP	Prequalifying Research	Sontheimer	Erik
3739	BBS	870	MDP	Prequalifying Research	Weng	Zhiping
3741	BBS	870	MDP	Prequalifying Research	Xue	Wen
1243	BBS	900	1	Thesis Research	ACHARYA	Usha Rajagopalan Jairaj
1245	BBS	900	1	Thesis Research	Akbarian	Schahram
1247	BBS	900	1	Thesis Research	Alkema	Mark
1743	BBS	900	1	Thesis Research	Allison	Jeroan
2013	BBS	900	1	Thesis Research	Alonso	Laura
1249	BBS	900	1	Thesis Research	Ambros	Victor
3785	BBS	900	1	Thesis Research	ANACLET	Christelle
1251	BBS	900	1	Thesis Research	ANDERSON	Frederick Arthur
2159	BBS	900	1	Thesis Research	Aroian	Raffi
1253	BBS	900	1	Thesis Research	Aronin	Neil

1255	BBS	900	1	Thesis Research	Bach	Ingolf
1257	BBS	900	1	Thesis Research	Baehrecke	Eric
1799	BBS	900	1	Thesis Research	Bailey	Jeffrey
1259	BBS	900	1	Thesis Research	Baker	Richard
1985	BBS	900	1	Thesis Research	Behar	Samuel
1851	BBS	900	1	Thesis Research	Benanti	Jennifer
1801	BBS	900	1	Thesis Research	Benard	Claire
1261	BBS	900	1	Thesis Research	Berg	Leslie
1951	BBS	900	1	Thesis Research	Bergmann	Andreas
1263	BBS	900	1	Thesis Research	Bogdanov	Alexei
1265	BBS	900	1	Thesis Research	Bolon	Daniel
1267	BBS	900	1	Thesis Research	Bortell	Rita
1269	BBS	900	1	Thesis Research	Bosch	Irene
1483	BBS	900	1	Thesis Research	Bosco	Daryl
1271	BBS	900	1	Thesis Research	Boyartchuk	Victor
1803	BBS	900	1	Thesis Research	Boyer	Edward
1987	BBS	900	1	Thesis Research	Brass	Abraham
1805	BBS	900	1	Thesis Research	Brehm	Michael
2057	BBS	900	1	Thesis Research	Brewer	Judson
3479	BBS	900	1	Thesis Research	Brewster	Robert
1273	BBS	900	1	Thesis Research	Brodsky	Michael
1487	BBS	900	1	Thesis Research	Brown	Robert
1275	BBS	900	1	Thesis Research	Budnik	Vivian
3779	BBS	900	1	Thesis Research	BYRNE	Alexandra Catherine
1277	BBS	900	1	Thesis Research	Cantor	Sharon
1279	BBS	900	1	Thesis Research	Carruthers	Anthony
1281	BBS	900	1	Thesis Research	Castilla	Lucio
3481	BBS	900	1	Thesis Research	Cavacini	Lisa
1807	BBS	900	1	Thesis Research	Ceol	Craig
1283	BBS	900	1	Thesis Research	CHAN	Francis Ka Ming
1285	BBS	900	1	Thesis Research	Clapham	Paul

1287	BBS	900	1	Thesis Research	Clark	Robin
1745	BBS	900	1	Thesis Research	Cooper	Marcus
1289	BBS	900	1	Thesis Research	Corvera	Silvia
1291	BBS	900	1	Thesis Research	Craig	Roger
1293	BBS	900	1	Thesis Research	Czech	Michael
1295	BBS	900	1	Thesis Research	Davis	Roger
1297	BBS	900	1	Thesis Research	Dekker	Job
1299	BBS	900	1	Thesis Research	DIFRANZA	Joseph
1301	BBS	900	1	Thesis Research	Dobner	Paul
4045	BBS	900	1	Thesis Research	Donahue	Kevin
1303	BBS	900	1	Thesis Research	Doxsey	Stephen
1305	BBS	900	1	Thesis Research	Ellison	Richard
1307	BBS	900	1	Thesis Research	EMERY	Patrick
1853	BBS	900	1	Thesis Research	Fazzio	Thomas
1309	BBS	900	1	Thesis Research	Finberg	Robert
1311	BBS	900	1	Thesis Research	Fitzgerald	Katherine
1313	BBS	900	1	Thesis Research	Flotte	Terence
1315	BBS	900	1	Thesis Research	Francis	Michael
1919	BBS	900	1	Thesis Research	FREEDMAN	Jane
1317	BBS	900	1	Thesis Research	Freeman	Marc
1877	BBS	900	1	Thesis Research	Futai	Kensuke
1809	BBS	900	1	Thesis Research	Gao	Fen-Biao
1321	BBS	900	1	Thesis Research	Gao	Guangping
2005	BBS	900	1	Thesis Research	Garber	Manuel
1319	BBS	900	1	Thesis Research	Gardner	Paul
1861	BBS	900	1	Thesis Research	Goguen	Jon
1323	BBS	900	1	Thesis Research	Goldberg	Robert
1325	BBS	900	1	Thesis Research	Golenbock	Douglas
1327	BBS	900	1	Thesis Research	Gottlinger	Heinrich
1329	BBS	900	1	Thesis Research	Gravallese	Ellen
1331	BBS	900	1	Thesis Research	Green	Michael

3945	BBS	900	1	Thesis Research	GREER	Paul Lieberman
1333	BBS	900	1	Thesis Research	Greiner	Dale
2003	BBS	900	1	Thesis Research	Grunwald	David
1749	BBS	900	1	Thesis Research	Guertin	David
1873	BBS	900	1	Thesis Research	Han	Gang
1895	BBS	900	1	Thesis Research	Harris	John
3653	BBS	900	1	Thesis Research	Haynes	Cole
1335	BBS	900	1	Thesis Research	Hayward	Lawrence
2047	BBS	900	1	Thesis Research	Huh	Jun
1337	BBS	900	1	Thesis Research	Huseby	Eric
1339	BBS	900	1	Thesis Research	Imbalzano	Anthony
1341	BBS	900	1	Thesis Research	Ip	Yicktung
3787	BBS	900	1	Thesis Research	IRAZOQUI	Javier Elbio
1343	BBS	900	1	Thesis Research	Jacobson	Allan
2023	BBS	900	1	Thesis Research	Jones	Peter
1345	BBS	900	1	Thesis Research	Jones	Stephen
1347	BBS	900	1	Thesis Research	Kang	Joonsoo
2161	BBS	900	1	Thesis Research	Karlsson	Elinor
1349	BBS	900	1	Thesis Research	Kaufman	Paul
1811	BBS	900	1	Thesis Research	Keaney	John
1989	BBS	900	1	Thesis Research	Kelch	Brian
1477	BBS	900	1	Thesis Research	Kelliher	Michelle
1891	BBS	900	1	Thesis Research	Kennedy	David
1865	BBS	900	1	Thesis Research	Khanna	Hemant
2037	BBS	900	1	Thesis Research	Khvorova	Anastasia
1751	BBS	900	1	Thesis Research	Kiefe	Catarina
3483	BBS	900	1	Thesis Research	Kim	Dohoon
1481	BBS	900	1	Thesis Research	Kim	Jason
1351	BBS	900	1	Thesis Research	King	Jean
1353	BBS	900	1	Thesis Research	Kobertz	William
1355	BBS	900	1	Thesis Research	Kornfeld	Hardy

1913	BBS	900	1	Thesis Research	Korostelev	Andrei
1357	BBS	900	1	Thesis Research	Kowalik	Timothy
1359	BBS	900	1	Thesis Research	Kurt-Jones	Evelyn
1813	BBS	900	1	Thesis Research	Landers	John
1371	BBS	900	1	Thesis Research	Lane	Mary
1997	BBS	900	1	Thesis Research	Lane	Mary
3555	BBS	900	1	Thesis Research	Lane	Mary
1383	BBS	900	1	Thesis Research	Lane	Mary
1387	BBS	900	1	Thesis Research	Lane	Mary
1393	BBS	900	1	Thesis Research	Lane	Mary
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1411	BBS	900	1	Thesis Research	Lane	Mary
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1279	BBS	900	1	Thesis Research	Lane	Mary
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1809	BBS	900	1	Thesis Research	Lane	Mary
1861	BBS	900	1	Thesis Research	Lane	Mary
1895	BBS	900	1	Thesis Research	Lane	Mary
1899	BBS	900	1	Thesis Research	Lane	Mary

1919	BBS	900	1	Thesis Research	Lane	Mary
1933	BBS	900	1	Thesis Research	Lane	Mary
1959	BBS	900	1	Thesis Research	Lane	Mary
1961	BBS	900	1	Thesis Research	Lane	Mary
1289	BBS	900	1	Thesis Research	Lane	Mary
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1297	BBS	900	1	Thesis Research	Lane	Mary
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1317	BBS	900	1	Thesis Research	Lane	Mary
1329	BBS	900	1	Thesis Research	Lane	Mary
1355	BBS	900	1	Thesis Research	Lane	Mary
1361	BBS	900	1	Thesis Research	Lawrence	Jeanne
1363	BBS	900	1	Thesis Research	Lawson	Nathan
2187	BBS	900	1	Thesis Research	Lee	Michael
2179	BBS	900	1	Thesis Research	Lemos	Jose
1365	BBS	900	1	Thesis Research	Levitz	Stuart
1367	BBS	900	1	Thesis Research	Lewis	Brian
1369	BBS	900	1	Thesis Research	Li	Hong-Sheng
1479	BBS	900	1	Thesis Research	Li	Shaoguang
1371	BBS	900	1	Thesis Research	Libraty	Daniel
1373	BBS	900	1	Thesis Research	Lien	Egil
2025	BBS	900	1	Thesis Research	Litvak	Vladimir
1815	BBS	900	1	Thesis Research	Lois	Carlos
1375	BBS	900	1	Thesis Research	Lu	Shan
1961	BBS	900	1	Thesis Research	Luban	Jeremy
1377	BBS	900	1	Thesis Research	Luckmann	Roger
1959	BBS	900	1	Thesis Research	Maehr	Rene
1767	BBS	900	1	Thesis Research	Mandrekar	Pranoti
1489	BBS	900	1	Thesis Research	Mao	Junhao

1963	BBS	900	1	Thesis Research	Martin	Gilles
1379	BBS	900	1	Thesis Research	Massi	Francesca
1381	BBS	900	1	Thesis Research	Matthews	Charles
1383	BBS	900	1	Thesis Research	McCollum	Dannel
1491	BBS	900	1	Thesis Research	McCormick	Beth
1385	BBS	900	1	Thesis Research	Melikian	Haley
1387	BBS	900	1	Thesis Research	Mello	Craig
1389	BBS	900	1	Thesis Research	Mercurio	Arthur
1391	BBS	900	1	Thesis Research	Miller	Stephen
3599	BBS	900	1	Thesis Research	MITCHELL	Amir Zadok
1893	BBS	900	1	Thesis Research	Moore	Constance
1393	BBS	900	1	Thesis Research	Moore	Melissa
1769	BBS	900	1	Thesis Research	Moormann	Ann
1395	BBS	900	1	Thesis Research	Morrison	Trudy
1927	BBS	900	1	Thesis Research	Muller	Christian
1397	BBS	900	1	Thesis Research	Munson	Maryann
1399	BBS	900	1	Thesis Research	Newburger	Peter
1401	BBS	900	1	Thesis Research	Ockene	Judith
3783	BBS	900	1	Thesis Research	Ortiz-Miranda	Sonia
1729	BBS	900	1	Thesis Research	Ostroff	Gary
4015	BBS	900	1	Thesis Research	PAI	Athma Anjali
1403	BBS	900	1	Thesis Research	Paydarfar	David
1405	BBS	900	1	Thesis Research	Pazour	Gregory
2181	BBS	900	1	Thesis Research	Peterson	Craig
1407	BBS	900	1	Thesis Research	Pryciak	Peter
2125	BBS	900	1	Thesis Research	Pukkila-Worley	Read
1897	BBS	900	1	Thesis Research	Punzo	Claudio
1409	BBS	900	1	Thesis Research	Ram	Sanjay
1411	BBS	900	1	Thesis Research	Rando	Oliver
3555	BBS	900	1	Thesis Research	REBOLDI	Andrea
1413	BBS	900	1	Thesis Research	Rhind	Nicholas

1415	BBS	900	1	Thesis Research	Richter	Joel
1417	BBS	900	1	Thesis Research	Rivera Perez	Jaime
1419	BBS	900	1	Thesis Research	Rock	Kenneth
3903	BBS	900	1	Thesis Research	Rogaev	Evgeny
1421	BBS	900	1	Thesis Research	Ross	Alonzo
1817	BBS	900	1	Thesis Research	Rothstein	Ann
1423	BBS	900	1	Thesis Research	Royer	William
1425	BBS	900	1	Thesis Research	Ruiz De Luzuriaga	Katherine
1427	BBS	900	1	Thesis Research	Ryder	Sean
1429	BBS	900	1	Thesis Research	Sagerstrom	Charles
1431	BBS	900	1	Thesis Research	Sassetti	Christopher
2163	BBS	900	1	Thesis Research	Schafer	Dorothy
1433	BBS	900	1	Thesis Research	Schiffer	Celia
1747	BBS	900	1	Thesis Research	Sena Esteves	Miguel
4046	BBS	900	1	Thesis Research	Shaffer	Scott
1435	BBS	900	1	Thesis Research	Shaw	Leslie
3781	BBS	900	1	Thesis Research	Shim	Jae-Hyuck
3997	BBS	900	1	Thesis Research	SHOHET	Jason Matthew
1437	BBS	900	1	Thesis Research	Silverman	Neal
2183	BBS	900	1	Thesis Research	Sluder	Greenfield
1439	BBS	900	1	Thesis Research	Socolovsky	Merav
1441	BBS	900	1	Thesis Research	Song	Jie
2127	BBS	900	1	Thesis Research	Sontheimer	Erik
1443	BBS	900	1	Thesis Research	Stein	Gary
1445	BBS	900	1	Thesis Research	Stern	Lawrence
1899	BBS	900	1	Thesis Research	Swain	Susan
1447	BBS	900	1	Thesis Research	Szabo	Gyongyi
1449	BBS	900	1	Thesis Research	Tapper	Andrew
1451	BBS	900	1	Thesis Research	Theurkauf	William
2129	BBS	900	1	Thesis Research	Thompson	Paul
1453	BBS	900	1	Thesis Research	Tissenbaum	Heidi

1933	BBS	900	1	Thesis Research	Trivedi	Chinmay
1455	BBS	900	1	Thesis Research	Urano	Fumihiko
1457	BBS	900	1	Thesis Research	Walhout	Albertha
1957	BBS	900	1	Thesis Research	Walker	Amy
1819	BBS	900	1	Thesis Research	Wang	Jennifer
1821	BBS	900	1	Thesis Research	Waring	Molly
3789	BBS	900	1	Thesis Research	Watts	Jonathan
1459	BBS	900	1	Thesis Research	Weaver	David
1461	BBS	900	1	Thesis Research	Welsh	Raymond
1463	BBS	900	1	Thesis Research	Weng	Zhiping
1465	BBS	900	1	Thesis Research	Wolfe	Scot
1467	BBS	900	1	Thesis Research	Woodland	Robert
1955	BBS	900	1	Thesis Research	Xiang	Yang
1469	BBS	900	1	Thesis Research	Xu	Zuoshang
2165	BBS	900	1	Thesis Research	Xue	Wen
2059	BBS	900	1	Thesis Research	Yu	Hong
1471	BBS	900	1	Thesis Research	Zamore	Phillip
1485	BBS	900	1	Thesis Research	Zeldovich	Konstantin
1473	BBS	900	1	Thesis Research	Zhang	Hong
1475	BBS	900	1	Thesis Research	ZHUGE	Ronghua
1953	BBS	900	1	Thesis Research	Ziedonis	Douglas
3743	BBS	900	MDP	Thesis Research	Alonso	Laura
4059	BBS	900	MDP	Thesis Research	ANACLET	Christelle
3811	BBS	900	MDP	Thesis Research	ANACLET	Christelle
4063	BBS	900	MDP	Thesis Research	Baehrecke	Eric
4058	BBS	900	MDP	Thesis Research	Boudreaux	Edwin
3565	BBS	900	MDP	Thesis Research	Ceol	Craig
4056	BBS	900	MDP	Thesis Research	Futai	Kensuke
3747	BBS	900	MDP	Thesis Research	Harris	John
3749	BBS	900	MDP	Thesis Research	Huh	Jun
3813	BBS	900	MDP	Thesis Research	IRAZOQUI	Javier Elbio

4057	BBS	900	MDP	Thesis Research	Khvorova	Anastasia
3563	BBS	900	MDP	Thesis Research	Lee	Michael
3981	BBS	900	MDP	Thesis Research	Luban	Jeremy
3751	BBS	900	MDP	Thesis Research	McCormick	Beth
3849	BBS	900	MDP	Thesis Research	McManus	David
3753	BBS	900	MDP	Thesis Research	Mercurio	Arthur
3571	BBS	900	MDP	Thesis Research	Moore	Melissa
4055	BBS	900	MDP	Thesis Research	Peterson	Craig
4060	BBS	900	MDP	Thesis Research	Pukkila-Worley	Read
3567	BBS	900	MDP	Thesis Research	Richter	Joel
3569	BBS	900	MDP	Thesis Research	Sassetti	Christopher
3745	BBS	900	MDP	Thesis Research	Schafer	Dorothy
4062	BBS	900	MDP	Thesis Research	Sontheimer	Erik
4030	BBS	900	MDP	Thesis Research	WANG	Bo
3815	BBS	900	MDP	Thesis Research	Watts	Jonathan
4061	BBS	900	MDP	Thesis Research	Weng	Zhiping
4064	BBS	900	MDP	Thesis Research	Xue	Wen
3755	BBS	900	MDP	Thesis Research	Xue	Wen
1493	BBS	990	1	Graduate Research	Alkema	Mark
1753	BBS	990	1	Graduate Research	Allison	Jeroan
2015	BBS	990	1	Graduate Research	Alonso	Laura
1495	BBS	990	1	Graduate Research	Ambros	Victor
3791	BBS	990	1	Graduate Research	ANACLET	Christelle
1497	BBS	990	1	Graduate Research	ANDERSON	Frederick Arthur
2167	BBS	990	1	Graduate Research	Aroian	Raffi
1499	BBS	990	1	Graduate Research	Aronin	Neil
1501	BBS	990	1	Graduate Research	Baehrecke	Eric
1823	BBS	990	1	Graduate Research	Bailey	Jeffrey
1991	BBS	990	1	Graduate Research	Behar	Samuel
1855	BBS	990	1	Graduate Research	Benanti	Jennifer
1825	BBS	990	1	Graduate Research	Benard	Claire

1503	BBS	990	1	Graduate Research	Berg	Leslie
1965	BBS	990	1	Graduate Research	Bergmann	Andreas
1505	BBS	990	1	Graduate Research	Bolon	Daniel
1717	BBS	990	1	Graduate Research	Bosco	Daryl
1827	BBS	990	1	Graduate Research	Boyer	Edward
1993	BBS	990	1	Graduate Research	Brass	Abraham
1829	BBS	990	1	Graduate Research	Brehm	Michael
2061	BBS	990	1	Graduate Research	Brewer	Judson
3485	BBS	990	1	Graduate Research	Brewster	Robert
1721	BBS	990	1	Graduate Research	Brown	Robert
1507	BBS	990	1	Graduate Research	Budnik	Vivian
3795	BBS	990	1	Graduate Research	BYRNE	Alexandra Catherine
1509	BBS	990	1	Graduate Research	Cantor	Sharon
1511	BBS	990	1	Graduate Research	Carruthers	Anthony
1513	BBS	990	1	Graduate Research	Castilla	Lucio
3487	BBS	990	1	Graduate Research	Cavacini	Lisa
1831	BBS	990	1	Graduate Research	Ceol	Craig
1515	BBS	990	1	Graduate Research	CHAN	Francis Ka Ming
1517	BBS	990	1	Graduate Research	Clapham	Paul
1519	BBS	990	1	Graduate Research	Clark	Robin
1755	BBS	990	1	Graduate Research	Cooper	Marcus
1521	BBS	990	1	Graduate Research	Corvera	Silvia
1523	BBS	990	1	Graduate Research	Czech	Michael
1525	BBS	990	1	Graduate Research	Davis	Roger
1527	BBS	990	1	Graduate Research	Dekker	Job
4047	BBS	990	1	Graduate Research	Donahue	Kevin
1529	BBS	990	1	Graduate Research	Doxsey	Stephen
1531	BBS	990	1	Graduate Research	EMERY	Patrick
1857	BBS	990	1	Graduate Research	Fazzio	Thomas
1533	BBS	990	1	Graduate Research	Finberg	Robert
1535	BBS	990	1	Graduate Research	Fitzgerald	Katherine

1537	BBS	990	1	Graduate Research	Flotte	Terence
1539	BBS	990	1	Graduate Research	Francis	Michael
1921	BBS	990	1	Graduate Research	FREEDMAN	Jane
1541	BBS	990	1	Graduate Research	Freeman	Marc
1879	BBS	990	1	Graduate Research	Futai	Kensuke
1833	BBS	990	1	Graduate Research	Gao	Fen-Biao
1545	BBS	990	1	Graduate Research	Gao	Guangping
2009	BBS	990	1	Graduate Research	Garber	Manuel
1543	BBS	990	1	Graduate Research	Gardner	Paul
1863	BBS	990	1	Graduate Research	Goguen	Jon
1547	BBS	990	1	Graduate Research	Goldberg	Robert
1549	BBS	990	1	Graduate Research	Golenbock	Douglas
1551	BBS	990	1	Graduate Research	Gottlinger	Heinrich
1553	BBS	990	1	Graduate Research	Gravallese	Ellen
1555	BBS	990	1	Graduate Research	Green	Michael
3947	BBS	990	1	Graduate Research	GREER	Paul Lieberman
1557	BBS	990	1	Graduate Research	Greiner	Dale
2007	BBS	990	1	Graduate Research	Grunwald	David
1759	BBS	990	1	Graduate Research	Guertin	David
1875	BBS	990	1	Graduate Research	Han	Gang
1905	BBS	990	1	Graduate Research	Harris	John
3655	BBS	990	1	Graduate Research	Haynes	Cole
1559	BBS	990	1	Graduate Research	Hayward	Lawrence
2049	BBS	990	1	Graduate Research	Huh	Jun
1561	BBS	990	1	Graduate Research	Huseby	Eric
1563	BBS	990	1	Graduate Research	Imbalzano	Anthony
1565	BBS	990	1	Graduate Research	Ip	Yicktung
3793	BBS	990	1	Graduate Research	IRAZOQUI	Javier Elbio
1567	BBS	990	1	Graduate Research	Jacobson	Allan
2027	BBS	990	1	Graduate Research	Jones	Peter
1569	BBS	990	1	Graduate Research	Jones	Stephen

1571	BBS	990	1	Graduate Research	Kang	Joonsoo
2169	BBS	990	1	Graduate Research	Karlsson	Elinor
1573	BBS	990	1	Graduate Research	Kaufman	Paul
1835	BBS	990	1	Graduate Research	Keaney	John
1995	BBS	990	1	Graduate Research	Kelch	Brian
1575	BBS	990	1	Graduate Research	Kelliher	Michelle
1901	BBS	990	1	Graduate Research	Kennedy	David
1867	BBS	990	1	Graduate Research	Khanna	Hemant
2039	BBS	990	1	Graduate Research	Khvorova	Anastasia
1761	BBS	990	1	Graduate Research	Kiefe	Catarina
3489	BBS	990	1	Graduate Research	Kim	Dohoon
1715	BBS	990	1	Graduate Research	Kim	Jason
1577	BBS	990	1	Graduate Research	King	Jean
1581	BBS	990	1	Graduate Research	Kobertz	William
1583	BBS	990	1	Graduate Research	Kornfeld	Hardy
1915	BBS	990	1	Graduate Research	Korostelev	Andrei
1585	BBS	990	1	Graduate Research	Kowalik	Timothy
1587	BBS	990	1	Graduate Research	Kurt-Jones	Evelyn
1837	BBS	990	1	Graduate Research	Landers	John
1583	BBS	990	1	Graduate Research	Lane	Mary
1587	BBS	990	1	Graduate Research	Lane	Mary
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2007	BBS	990	1	Graduate Research	Lane	Mary
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1579	BBS	990	1	Graduate Research	Lane	Mary
1581	BBS	990	1	Graduate Research	Lane	Mary

1589	BBS	990	1	Graduate Research	Lawrence	Jeanne
1591	BBS	990	1	Graduate Research	Lawson	Nathan
2043	BBS	990	1	Graduate Research	Lee	Michael
1593	BBS	990	1	Graduate Research	Lemos	Jose
1595	BBS	990	1	Graduate Research	Levitz	Stuart
1597	BBS	990	1	Graduate Research	Lewis	Brian
1599	BBS	990	1	Graduate Research	Li	Hong-Sheng
1713	BBS	990	1	Graduate Research	Li	Shaoguang
1601	BBS	990	1	Graduate Research	Libraty	Daniel
1603	BBS	990	1	Graduate Research	Lien	Egil
2029	BBS	990	1	Graduate Research	Litvak	Vladimir
1839	BBS	990	1	Graduate Research	Lois	Carlos
1605	BBS	990	1	Graduate Research	Lu	Shan
1975	BBS	990	1	Graduate Research	Luban	Jeremy
1607	BBS	990	1	Graduate Research	Luckmann	Roger
1973	BBS	990	1	Graduate Research	Maehr	Rene
1771	BBS	990	1	Graduate Research	Mandrekar	Pranoti
1723	BBS	990	1	Graduate Research	Mao	Junhao
1977	BBS	990	1	Graduate Research	Martin	Gilles
1609	BBS	990	1	Graduate Research	Massi	Francesca
1611	BBS	990	1	Graduate Research	Matthews	Charles
1613	BBS	990	1	Graduate Research	McCollum	Dannel
1725	BBS	990	1	Graduate Research	McCormick	Beth
1615	BBS	990	1	Graduate Research	Melikian	Haley
1617	BBS	990	1	Graduate Research	Mello	Craig
1619	BBS	990	1	Graduate Research	Mercurio	Arthur
1621	BBS	990	1	Graduate Research	Miller	Stephen
3603	BBS	990	1	Graduate Research	MITCHELL	Amir Zadok
1903	BBS	990	1	Graduate Research	Moore	Constance
1623	BBS	990	1	Graduate Research	Moore	Melissa
1773	BBS	990	1	Graduate Research	Moormann	Ann

1625	BBS	990	1	Graduate Research	Morrison	Trudy
1929	BBS	990	1	Graduate Research	Muller	Christian
1627	BBS	990	1	Graduate Research	Munson	Maryann
1629	BBS	990	1	Graduate Research	Newburger	Peter
1631	BBS	990	1	Graduate Research	Ockene	Judith
3799	BBS	990	1	Graduate Research	Ortiz-Miranda	Sonia
1731	BBS	990	1	Graduate Research	Ostroff	Gary
4016	BBS	990	1	Graduate Research	PAI	Athma Anjali
1633	BBS	990	1	Graduate Research	Paydarfar	David
1635	BBS	990	1	Graduate Research	Pazour	Gregory
1637	BBS	990	1	Graduate Research	Peterson	Craig
1639	BBS	990	1	Graduate Research	Pryciak	Peter
2137	BBS	990	1	Graduate Research	Pukkila-Worley	Read
1907	BBS	990	1	Graduate Research	Punzo	Claudio
1641	BBS	990	1	Graduate Research	Ram	Sanjay
1643	BBS	990	1	Graduate Research	Rando	Oliver
3559	BBS	990	1	Graduate Research	REBOLDI	Andrea
1645	BBS	990	1	Graduate Research	Rhind	Nicholas
1647	BBS	990	1	Graduate Research	Richter	Joel
1649	BBS	990	1	Graduate Research	Rivera Perez	Jaime
1651	BBS	990	1	Graduate Research	Rock	Kenneth
3905	BBS	990	1	Graduate Research	Rogaev	Evgeny
1653	BBS	990	1	Graduate Research	Ross	Alonzo
1841	BBS	990	1	Graduate Research	Rothstein	Ann
1655	BBS	990	1	Graduate Research	Royer	William
1657	BBS	990	1	Graduate Research	Ruiz De Luzuriaga	Katherine
1659	BBS	990	1	Graduate Research	Ryder	Sean
1661	BBS	990	1	Graduate Research	Sagerstrom	Charles
1663	BBS	990	1	Graduate Research	Sassetti	Christopher
2171	BBS	990	1	Graduate Research	Schafer	Dorothy
1665	BBS	990	1	Graduate Research	Schiffer	Celia

1667	BBS	990	1	Graduate Research	Selin	Liisa
1757	BBS	990	1	Graduate Research	Sena Esteves	Miguel
4048	BBS	990	1	Graduate Research	Shaffer	Scott
1669	BBS	990	1	Graduate Research	Shaw	Leslie
3797	BBS	990	1	Graduate Research	Shim	Jae-Hyuck
1671	BBS	990	1	Graduate Research	Silverman	Neal
1673	BBS	990	1	Graduate Research	Sluder	Greenfield
1675	BBS	990	1	Graduate Research	Socolovsky	Merav
1677	BBS	990	1	Graduate Research	Song	Jie
2139	BBS	990	1	Graduate Research	Sontheimer	Erik
1679	BBS	990	1	Graduate Research	Stein	Gary
1681	BBS	990	1	Graduate Research	Stern	Lawrence
1909	BBS	990	1	Graduate Research	Swain	Susan
1683	BBS	990	1	Graduate Research	Szabo	Gyongyi
1685	BBS	990	1	Graduate Research	Tapper	Andrew
1687	BBS	990	1	Graduate Research	Theurkauf	William
2141	BBS	990	1	Graduate Research	Thompson	Paul
1689	BBS	990	1	Graduate Research	Tissenbaum	Heidi
1931	BBS	990	1	Graduate Research	Trivedi	Chinmay
1691	BBS	990	1	Graduate Research	Urano	Fumihiko
1693	BBS	990	1	Graduate Research	Walhout	Albertha
1971	BBS	990	1	Graduate Research	Walker	Amy
1843	BBS	990	1	Graduate Research	Wang	Jennifer
1845	BBS	990	1	Graduate Research	Waring	Molly
3615	BBS	990	1	Graduate Research	Watts	Jonathan
1695	BBS	990	1	Graduate Research	Weaver	David
1697	BBS	990	1	Graduate Research	Welsh	Raymond
1699	BBS	990	1	Graduate Research	Weng	Zhiping
1701	BBS	990	1	Graduate Research	Wolfe	Scot
1703	BBS	990	1	Graduate Research	Woodland	Robert
1969	BBS	990	1	Graduate Research	Xiang	Yang

1705	BBS	990	1	Graduate Research	Xu	Zuoshang
2173	BBS	990	1	Graduate Research	Xue	Wen
2063	BBS	990	1	Graduate Research	Yu	Hong
1707	BBS	990	1	Graduate Research	Zamore	Phillip
1719	BBS	990	1	Graduate Research	Zeldovich	Konstantin
1709	BBS	990	1	Graduate Research	Zhang	Hong
1711	BBS	990	1	Graduate Research	ZHUGE	Ronghua
1967	BBS	990	1	Graduate Research	Ziedonis	Douglas
4070	BBS	990	MDP	Graduate Research	Alonso	Laura
3817	BBS	990	MDP	Graduate Research	ANACLET	Christelle
3397	BBS	990	MDP	Graduate Research	Aronin	Neil
3399	BBS	990	MDP	Graduate Research	Bailey	Jeffrey
3441	BBS	990	MDP	Graduate Research	Behar	Samuel
3581	BBS	990	MDP	Graduate Research	Bosco	Daryl
3491	BBS	990	MDP	Graduate Research	Brewster	Robert
3401	BBS	990	MDP	Graduate Research	Brown	Robert
3855	BBS	990	MDP	Graduate Research	BYRNE	Alexandra Catherine
3493	BBS	990	MDP	Graduate Research	Cavacini	Lisa
3957	BBS	990	MDP	Graduate Research	Ceol	Craig
3437	BBS	990	MDP	Graduate Research	Cooper	Marcus
3403	BBS	990	MDP	Graduate Research	Gardner	Paul
3405	BBS	990	MDP	Graduate Research	Golenbock	Douglas
3439	BBS	990	MDP	Graduate Research	Gravallese	Ellen
3949	BBS	990	MDP	Graduate Research	GREER	Paul Lieberman
3577	BBS	990	MDP	Graduate Research	Guertin	David
3583	BBS	990	MDP	Graduate Research	Harris	John
3657	BBS	990	MDP	Graduate Research	Haynes	Cole
3819	BBS	990	MDP	Graduate Research	IRAZOQUI	Javier Elbio
3495	BBS	990	MDP	Graduate Research	Kim	Dohoon
3407	BBS	990	MDP	Graduate Research	Kurt-Jones	Evelyn
3573	BBS	990	MDP	Graduate Research	Lawrence	Jeanne

3955	BBS	990	MDP	Graduate Research	Lee	Michael
3409	BBS	990	MDP	Graduate Research	Levitz	Stuart
3411	BBS	990	MDP	Graduate Research	Li	Hong-Sheng
3413	BBS	990	MDP	Graduate Research	Lien	Egil
4069	BBS	990	MDP	Graduate Research	Luban	Jeremy
4067	BBS	990	MDP	Graduate Research	McCormick	Beth
3851	BBS	990	MDP	Graduate Research	McManus	David
4065	BBS	990	MDP	Graduate Research	Mercurio	Arthur
3601	BBS	990	MDP	Graduate Research	MITCHELL	Amir Zadok
3801	BBS	990	MDP	Graduate Research	Ortiz-Miranda	Sonia
3757	BBS	990	MDP	Graduate Research	Pazour	Gregory
3557	BBS	990	MDP	Graduate Research	REBOLDI	Andrea
3415	BBS	990	MDP	Graduate Research	Rhind	Nicholas
3417	BBS	990	MDP	Graduate Research	Richter	Joel
3575	BBS	990	MDP	Graduate Research	Rock	Kenneth
3907	BBS	990	MDP	Graduate Research	Rogaev	Evgeny
3759	BBS	990	MDP	Graduate Research	Sassetti	Christopher
4066	BBS	990	MDP	Graduate Research	Schafer	Dorothy
3419	BBS	990	MDP	Graduate Research	Schiffer	Celia
3421	BBS	990	MDP	Graduate Research	Shaw	Leslie
3857	BBS	990	MDP	Graduate Research	Shim	Jae-Hyuck
3998	BBS	990	MDP	Graduate Research	SHOHET	Jason Matthew
3423	BBS	990	MDP	Graduate Research	Song	Jie
3425	BBS	990	MDP	Graduate Research	Szabo	Gyongyi
3579	BBS	990	MDP	Graduate Research	Trivedi	Chinmay
3453	BBS	990	MDP	Graduate Research	Walhout	Albertha
4029	BBS	990	MDP	Graduate Research	WANG	Bo
3821	BBS	990	MDP	Graduate Research	Watts	Jonathan
3427	BBS	990	MDP	Graduate Research	Weng	Zhiping
4068	BBS	990	MDP	Graduate Research	Xue	Wen
3429	BBS	990	MDP	Graduate Research	Zamore	Phillip

Clinical & Translational Science Non-Research Class Numbers

Class Nbr	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2217	CTS	602A	CPH	Adv Epidemiology & Res Mthds	Jesdale	William
4018	CTS	603A	CPH	Generalized Linear Models	Person	Sharina
2635	CTS	605A	ERL	Intro to Clin.Epi & Biostatist	BAEK	Jong Gyu
2209	CTS	611	CPH	Scientific Writing	Goldberg	Robert
3877	CTS	620	CPH	Clin & Trans Research Sem	Kiefe	Catarina
4076	CTS	701	CPH	Systematic Review	Ulbricht	Christine
2211	CTS	702	CPH	Ethics for Clinical Research	Dube	Catherine
4071	CTS	729	CPH	Social Epidemiology	Jesdale	William
2219	CTS	735	CPH	Intro.Implementation Science	Hogan	Timothy
3927	CTS	799	CPH	Independent Study	Allison	Jeroan
3625	CTS	799	CPH	Independent Study	Ash	Arlene
3631	CTS	799	CPH	Independent Study	Epstein	Mara
2215	CTS	799	CPH	Independent Study	Goldberg	Robert
4079	CTS	799	CPH	Independent Study	Jesdale	William
2205	CTS	799	CPH	Independent Study	Lapane	Kate
3929	CTS	799	CPH	Independent Study	LIU	Shao-Hsien
3623	CTS	799	CPH	Independent Study	Ockene	Judith
3613	CTS	799	CPH	Independent Study	Person	Sharina
4073	CTS	799	CPH	Independent Study	Ulbricht	Christine
2213	CTS	802	CPH	Journal Club	Goldberg	Robert
4009	CTS	855	CPH	Research Seminar	Goldberg	Robert
3959	CTS	860A	CTS	Written Qualifying Exam	Lapane	Kate
2221	CTS	865	CPH	CTS TRAC MEETING	Lapane	Kate

Clinical & Translational Science Research Class Numbers

Class Nbr	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3837	CTS	850	CTS	Research Assistantship	Aidlen	Jeremy
2333	CTS	850	CTS	Research Assistantship	Alavi	Karim
2235	CTS	850	CTS	Research Assistantship	Allison	Jeroan

Class Nbr	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2401	CTS	850	CTS	Research Assistantship	ANDERSON	Frederick Arthur
2395	CTS	850	CTS	Research Assistantship	Ash	Arlene
2231	CTS	850	CTS	Research Assistantship	Boudreaux	Edwin
2371	CTS	850	CTS	Research Assistantship	Brewer	Judson
4024	CTS	850	CTS	Research Assistantship	Byatt	Nancy
2403	CTS	850	CTS	Research Assistantship	Clark	Robin
2335	CTS	850	CTS	Research Assistantship	Epstein	Mara
2233	CTS	850	CTS	Research Assistantship	Goldberg	Robert
2409	CTS	850	CTS	Research Assistantship	Harlan	David
2425	CTS	850	CTS	Research Assistantship	Kiefe	Catarina
2229	CTS	850	CTS	Research Assistantship	Lapane	Kate
2397	CTS	850	CTS	Research Assistantship	Lemon	Stephenie
2399	CTS	850	CTS	Research Assistantship	Luckmann	Roger
2353	CTS	850	CTS	Research Assistantship	Mattocks	Kristin
4020	CTS	850	CTS	Research Assistantship	Mazor	Kathleen
3537	CTS	850	CTS	Research Assistantship	McManus	David
2239	CTS	850	CTS	Research Assistantship	Mick	Eric
2437	CTS	850	CTS	Research Assistantship	Moormann	Ann
2237	CTS	850	CTS	Research Assistantship	Ockene	Judith
2435	CTS	850	CTS	Research Assistantship	Pagoto	Sherry
2227	CTS	850	CTS	Research Assistantship	Person	Sharina
2361	CTS	850	CTS	Research Assistantship	Rosal	Milagros
2225	CTS	850	CTS	Research Assistantship	Rosen	Allison
2427	CTS	850	CTS	Research Assistantship	Saczynski	Jane
3917	CTS	850	CTS	Research Assistantship	Ulbricht	Christine
2359	CTS	850	CTS	Research Assistantship	Waring	Molly
2373	CTS	850	CTS	Research Assistantship	Yu	Hong
2423	CTS	850	CTS	Research Assistantship	Ziedonis	Douglas
3891	CTS	850	ERL	Research Assistantship	Brewer	Judson
2637	CTS	850	ERL	Research Assistantship	Kiefe	Catarina

Class Nbr	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3839	CTS	870	CTS	Pre-Thesis Research	Aidlen	Jeremy
3621	CTS	870	CTS	Pre-Thesis Research	Alavi	Karim
3909	CTS	870	CTS	Pre-Thesis Research	Allison	Jeroan
4025	CTS	870	CTS	Pre-Thesis Research	Byatt	Nancy
4080	CTS	870	CTS	Pre-Thesis Research	Epstein	Mara
3529	CTS	870	CTS	Pre-Thesis Research	Goldberg	Robert
3527	CTS	870	CTS	Pre-Thesis Research	Kiefe	Catarina
3531	CTS	870	CTS	Pre-Thesis Research	Lapane	Kate
3523	CTS	870	CTS	Pre-Thesis Research	Lemon	Stephenie
3911	CTS	870	CTS	Pre-Thesis Research	Mattocks	Kristin
4021	CTS	870	CTS	Pre-Thesis Research	Mazor	Kathleen
3627	CTS	870	CTS	Pre-Thesis Research	McCormick	Beth
3539	CTS	870	CTS	Pre-Thesis Research	McManus	David
3525	CTS	870	CTS	Pre-Thesis Research	Ockene	Judith
3605	CTS	870	CTS	Pre-Thesis Research	Pagoto	Sherry
3611	CTS	870	CTS	Pre-Thesis Research	Person	Sharina
3629	CTS	870	CTS	Pre-Thesis Research	Rosal	Milagros
3919	CTS	870	CTS	Pre-Thesis Research	Ulbricht	Christine
3679	CTS	870	ERL	Pre-Thesis Research	Goldberg	Robert
3841	CTS	900	CTS	Thesis Research	Aidlen	Jeremy
2337	CTS	900	CTS	Thesis Research	Alavi	Karim
2247	CTS	900	CTS	Thesis Research	Allison	Jeroan
3823	CTS	900	CTS	Thesis Research	ANACLET	Christelle
2245	CTS	900	CTS	Thesis Research	ANDERSON	Frederick Arthur
2261	CTS	900	CTS	Thesis Research	Ash	Arlene
2375	CTS	900	CTS	Thesis Research	Brewer	Judson
4026	CTS	900	CTS	Thesis Research	Byatt	Nancy
2243	CTS	900	CTS	Thesis Research	Clark	Robin
2339	CTS	900	CTS	Thesis Research	Epstein	Mara
2249	CTS	900	CTS	Thesis Research	Goldberg	Robert

Class Nbr	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2411	CTS	900	CTS	Thesis Research	Harlan	David
3825	CTS	900	CTS	Thesis Research	IRAZOQUI	Javier Elbio
2421	CTS	900	CTS	Thesis Research	Kiefe	Catarina
2257	CTS	900	CTS	Thesis Research	King	Jean
4072	CTS	900	CTS	Thesis Research	LaFemina	Jennifer
2267	CTS	900	CTS	Thesis Research	Lapane	Kate
2251	CTS	900	CTS	Thesis Research	Lemon	Stephenie
2241	CTS	900	CTS	Thesis Research	Luckmann	Roger
2355	CTS	900	CTS	Thesis Research	Mattocks	Kristin
3541	CTS	900	CTS	Thesis Research	McManus	David
2269	CTS	900	CTS	Thesis Research	Mick	Eric
2263	CTS	900	CTS	Thesis Research	Moore	Constance
3913	CTS	900	CTS	Thesis Research	Ockene	Judith
2255	CTS	900	CTS	Thesis Research	Paydarfar	David
2259	CTS	900	CTS	Thesis Research	Person	Sharina
2363	CTS	900	CTS	Thesis Research	Rosal	Milagros
2253	CTS	900	CTS	Thesis Research	Rosen	Allison
2265	CTS	900	CTS	Thesis Research	Saczynski	Jane
3921	CTS	900	CTS	Thesis Research	Ulbricht	Christine
2405	CTS	900	CTS	Thesis Research	Waring	Molly
3827	CTS	900	CTS	Thesis Research	Watts	Jonathan
2377	CTS	900	CTS	Thesis Research	Yu	Hong
2419	CTS	900	CTS	Thesis Research	Ziedonis	Douglas
3843	CTS	990	CTS	Graduate Research	Aidlen	Jeremy
2341	CTS	990	CTS	Graduate Research	Alavi	Karim
2291	CTS	990	CTS	Graduate Research	Allison	Jeroan
3829	CTS	990	CTS	Graduate Research	ANACLET	Christelle
2285	CTS	990	CTS	Graduate Research	ANDERSON	Frederick Arthur
2223	CTS	990	CTS	Graduate Research	Ash	Arlene
2307	CTS	990	CTS	Graduate Research	Bandini	Linda

Class Nbr	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2381	CTS	990	CTS	Graduate Research	Bova	Carol
2379	CTS	990	CTS	Graduate Research	Brewer	Judson
4027	CTS	990	CTS	Graduate Research	Byatt	Nancy
3503	CTS	990	CTS	Graduate Research	Clark	Melissa
2279	CTS	990	CTS	Graduate Research	Clark	Robin
3497	CTS	990	CTS	Graduate Research	Deligiannidis	Kristina
2321	CTS	990	CTS	Graduate Research	DIFRANZA	Joseph
3831	CTS	990	CTS	Graduate Research	Donahue	Kevin
2383	CTS	990	CTS	Graduate Research	Dube	Catherine
2343	CTS	990	CTS	Graduate Research	Epstein	Mara
2287	CTS	990	CTS	Graduate Research	Etzel	Lori
2385	CTS	990	CTS	Graduate Research	Fang	Hua
2297	CTS	990	CTS	Graduate Research	FIELD	Terry
2293	CTS	990	CTS	Graduate Research	Fisher	William
2299	CTS	990	CTS	Graduate Research	Franklin	Patricia
2303	CTS	990	CTS	Graduate Research	Frazier	Jean
2295	CTS	990	CTS	Graduate Research	Goldberg	Robert
2413	CTS	990	CTS	Graduate Research	Harlan	David
2387	CTS	990	CTS	Graduate Research	Hoaglin	David
2389	CTS	990	CTS	Graduate Research	Hogan	Timothy
2309	CTS	990	CTS	Graduate Research	Houston	Thomas
3833	CTS	990	CTS	Graduate Research	IRAZOQUI	Javier Elbio
2415	CTS	990	CTS	Graduate Research	Kiefe	Catarina
2313	CTS	990	CTS	Graduate Research	King	Jean
2369	CTS	990	CTS	Graduate Research	LAFEMINA	Jennifer
2329	CTS	990	CTS	Graduate Research	Lapane	Kate
2301	CTS	990	CTS	Graduate Research	Lemon	Stephenie
2277	CTS	990	CTS	Graduate Research	Lilly	Craig
2275	CTS	990	CTS	Graduate Research	Luckmann	Roger
2345	CTS	990	CTS	Graduate Research	Madison	John

Class Nbr	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2283	CTS	990	CTS	Graduate Research	Madoff	Lawrence
2317	CTS	990	CTS	Graduate Research	Marsh	Wendy
3659	CTS	990	CTS	Graduate Research	MARTINS	Paulo
2357	CTS	990	CTS	Graduate Research	Mattocks	Kristin
3933	CTS	990	CTS	Graduate Research	Mazor	Kathleen
2271	CTS	990	CTS	Graduate Research	McLaughlin	Thomas
3543	CTS	990	CTS	Graduate Research	McManus	David
2331	CTS	990	CTS	Graduate Research	Mick	Eric
2323	CTS	990	CTS	Graduate Research	Moore	Constance
2289	CTS	990	CTS	Graduate Research	Ockene	Ira
3915	CTS	990	CTS	Graduate Research	Ockene	Judith
2347	CTS	990	CTS	Graduate Research	OLENDZKI	Barbara
2311	CTS	990	CTS	Graduate Research	Paydarfar	David
2315	CTS	990	CTS	Graduate Research	Person	Sharina
2273	CTS	990	CTS	Graduate Research	Reed	George
2365	CTS	990	CTS	Graduate Research	Rosal	Milagros
2305	CTS	990	CTS	Graduate Research	Rosen	Allison
2391	CTS	990	CTS	Graduate Research	Rosen	Amy
2281	CTS	990	CTS	Graduate Research	Rothman	Alan
2325	CTS	990	CTS	Graduate Research	Saczynski	Jane
2349	CTS	990	CTS	Graduate Research	Santry	Heena
2319	CTS	990	CTS	Graduate Research	Schneider	Kristin
3665	CTS	990	CTS	Graduate Research	Smelson	David
2351	CTS	990	CTS	Graduate Research	Spencer	Frederick
3923	CTS	990	CTS	Graduate Research	Ulbricht	Christine
2327	CTS	990	CTS	Graduate Research	Ware	John
2407	CTS	990	CTS	Graduate Research	Waring	Molly
3835	CTS	990	CTS	Graduate Research	Watts	Jonathan
2393	CTS	990	CTS	Graduate Research	Yu	Hong
2417	CTS	990	CTS	Graduate Research	Ziedonis	Douglas

Health Sciences Preparatory Program Class Numbers

Class Nbr	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2667	HSP	500	HSM	Building Working Cells & Tissu	Royer	William
2671	HSP	502A	HSM	Med Physiology & Histology A	Jonassen	Julie
2669	HSP	504A	HSM	Academic Achievement A	Hines	Deborah
2673	HSP	509	HSM	Jumpstart	Hatem	David

MD/PhD Class Numbers

Class Nbr	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3443	BBS	865	MDP	BBS TRAC Meeting	Lane	Mary
3727	BBS	870	MDP	Prequalifying Research	Baehrecke	Eric
3729	BBS	870	MDP	Prequalifying Research	Boudreaux	Edwin
3731	BBS	870	MDP	Prequalifying Research	Khvorova	Anastasia
3733	BBS	870	MDP	Prequalifying Research	Peterson	Craig
3735	BBS	870	MDP	Prequalifying Research	Pukkila-Worley	Read
3737	BBS	870	MDP	Prequalifying Research	Rhind	Nicholas
4022	BBS	870	MDP	Prequalifying Research	SHOHET	Jason Matthew
3953	BBS	870	MDP	Prequalifying Research	Sontheimer	Erik
3739	BBS	870	MDP	Prequalifying Research	Weng	Zhiping
3741	BBS	870	MDP	Prequalifying Research	Xue	Wen
3743	BBS	900	MDP	Thesis Research	Alonso	Laura
3811	BBS	900	MDP	Thesis Research	ANACLET	Christelle
3565	BBS	900	MDP	Thesis Research	Ceol	Craig
3747	BBS	900	MDP	Thesis Research	Harris	John
3749	BBS	900	MDP	Thesis Research	Huh	Jun
3813	BBS	900	MDP	Thesis Research	IRAZOQUI	Javier Elbio
3563	BBS	900	MDP	Thesis Research	Lee	Michael
3981	BBS	900	MDP	Thesis Research	Luban	Jeremy
3751	BBS	900	MDP	Thesis Research	McCormick	Beth
3849	BBS	900	MDP	Thesis Research	McManus	David
3753	BBS	900	MDP	Thesis Research	Mercurio	Arthur
3571	BBS	900	MDP	Thesis Research	Moore	Melissa
3567	BBS	900	MDP	Thesis Research	Richter	Joel
3569	BBS	900	MDP	Thesis Research	Sassetti	Christopher
3745	BBS	900	MDP	Thesis Research	Schafer	Dorothy
4030	BBS	900	MDP	Thesis Research	WANG	Bo
3815	BBS	900	MDP	Thesis Research	Watts	Jonathan
3755	BBS	900	MDP	Thesis Research	Xue	Wen

Class Nbr	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3817	BBS	990	MDP	Graduate Research	ANACLET	Christelle
3397	BBS	990	MDP	Graduate Research	Aronin	Neil
3399	BBS	990	MDP	Graduate Research	Bailey	Jeffrey
3441	BBS	990	MDP	Graduate Research	Behar	Samuel
3581	BBS	990	MDP	Graduate Research	Bosco	Daryl
3491	BBS	990	MDP	Graduate Research	Brewster	Robert
3401	BBS	990	MDP	Graduate Research	Brown	Robert
3855	BBS	990	MDP	Graduate Research	BYRNE	Alexandra Catherine
3493	BBS	990	MDP	Graduate Research	Cavacini	Lisa
3957	BBS	990	MDP	Graduate Research	Ceol	Craig
3437	BBS	990	MDP	Graduate Research	Cooper	Marcus
3403	BBS	990	MDP	Graduate Research	Gardner	Paul
3405	BBS	990	MDP	Graduate Research	Golenbock	Douglas
3439	BBS	990	MDP	Graduate Research	Gravallese	Ellen
3949	BBS	990	MDP	Graduate Research	GREER	Paul Lieberman
3577	BBS	990	MDP	Graduate Research	Guertin	David
3583	BBS	990	MDP	Graduate Research	Harris	John
3657	BBS	990	MDP	Graduate Research	Haynes	Cole
3819	BBS	990	MDP	Graduate Research	IRAZOQUI	Javier Elbio
3495	BBS	990	MDP	Graduate Research	Kim	Dohoon
3407	BBS	990	MDP	Graduate Research	Kurt-Jones	Evelyn
3573	BBS	990	MDP	Graduate Research	Lawrence	Jeanne
3955	BBS	990	MDP	Graduate Research	Lee	Michael
3409	BBS	990	MDP	Graduate Research	Levitz	Stuart
3411	BBS	990	MDP	Graduate Research	Li	Hong-Sheng
3413	BBS	990	MDP	Graduate Research	Lien	Egil
3851	BBS	990	MDP	Graduate Research	McManus	David
3601	BBS	990	MDP	Graduate Research	MITCHELL	Amir Zadok
3801	BBS	990	MDP	Graduate Research	Ortiz-Miranda	Sonia
3757	BBS	990	MDP	Graduate Research	Pazour	Gregory

Class Nbr	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3557	BBS	990	MDP	Graduate Research	REBOLDI	Andrea
3415	BBS	990	MDP	Graduate Research	Rhind	Nicholas
3417	BBS	990	MDP	Graduate Research	Richter	Joel
3575	BBS	990	MDP	Graduate Research	Rock	Kenneth
3907	BBS	990	MDP	Graduate Research	Rogaev	Evgeny
3759	BBS	990	MDP	Graduate Research	Sassetti	Christopher
3419	BBS	990	MDP	Graduate Research	Schiffer	Celia
3421	BBS	990	MDP	Graduate Research	Shaw	Leslie
3857	BBS	990	MDP	Graduate Research	Shim	Jae-Hyuck
3998	BBS	990	MDP	Graduate Research	SHOHET	Jason Matthew
3423	BBS	990	MDP	Graduate Research	Song	Jie
3425	BBS	990	MDP	Graduate Research	Szabo	Gyongyi
3579	BBS	990	MDP	Graduate Research	Trivedi	Chinmay
3453	BBS	990	MDP	Graduate Research	Walhout	Albertha
4029	BBS	990	MDP	Graduate Research	WANG	Bo
3821	BBS	990	MDP	Graduate Research	Watts	Jonathan
3427	BBS	990	MDP	Graduate Research	Weng	Zhiping
3429	BBS	990	MDP	Graduate Research	Zamore	Phillip
3761	CTS	870	MDP	Pre-Thesis Research	Lapane	Kate
3763	CTS	870	MDP	Pre-Thesis Research	McManus	David
3845	CTS	990	MDP	Graduate Research	Aidlen	Jeremy
3431	CTS	990	MDP	Graduate Research	Allison	Jeroan
3433	CTS	990	MDP	Graduate Research	ANDERSON	Frederick Arthur
3505	CTS	990	MDP	Graduate Research	Clark	Melissa
3435	CTS	990	MDP	Graduate Research	Clark	Robin
3499	CTS	990	MDP	Graduate Research	Deligiannidis	Kristina
3585	CTS	990	MDP	Graduate Research	Kiefe	Catarina
3587	CTS	990	MDP	Graduate Research	Luckmann	Roger
3661	CTS	990	MDP	Graduate Research	MARTINS	Paulo
3931	CTS	990	MDP	Graduate Research	Mazor	Kathleen

Class Nbr	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3545	CTS	990	MDP	Graduate Research	McManus	David
3667	CTS	990	MDP	Graduate Research	Smelson	David
2067	MDP	740A	MDP	Dev. Solutions Res.Prob.A Yr1	Corvera	Silvia
2191	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Alonso	Laura
3803	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	ANACLET	Christelle
3635	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Baehrecke	Eric
3971	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Bailey	Jeffrey
3973	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Berg	Leslie
2101	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Bosco	Daryl
2199	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Brehm	Michael
3987	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Caffrey	Daniel
2111	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Ceol	Craig
2115	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Corvera	Silvia
3501	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Deligiannidis	Kristina
3805	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Donahue	Kevin
3979	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Dube	Catherine
2107	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Epstein	Mara
2195	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Fitzgerald	Katherine
3663	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Francis	Michael
2117	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Goldberg	Robert
2093	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Grigg	Peter
2099	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Guertin	David
2079	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Harris	John
3807	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	IRAZOQUI	Javier Elbio
3975	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Keaney	John
3969	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Kelliher	Michelle
2103	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Khanna	Hemant
3617	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Khvorova	Anastasia
2085	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Lawrence	Jeanne
2113	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Lee	Michael

Class Nbr	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2081	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Levitz	Stuart
2095	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Luckmann	Roger
3967	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	McCormick	Beth
3639	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	McManus	David
3977	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Melikian	Haley
2193	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Mercurio	Arthur
2119	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Moore	Melissa
2091	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Paydarfar	David
3633	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Peterson	Craig
2143	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Pukkila-Worley	Read
3669	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Rhind	Nicholas
2087	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Sassetti	Christopher
2197	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Schafer	Dorothy
2083	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Schiffer	Celia
2097	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Sena Esteves	Miguel
2075	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Shaw	Leslie
3999	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	SHOHET	Jason Matthew
2145	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Sontheimer	Erik
2109	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Szabo	Gyongyi
3671	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Tapper	Andrew
2147	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Thompson	Paul
2105	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Tjia	Jennifer
2089	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Trivedi	Chinmay
3989	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Ulbricht	Christine
2073	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Walhout	Albertha
2123	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Walz	Jens
4031	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	WANG	Bo
2149	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Wang	Donghai
2201	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Ward	Doyle
3809	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Watts	Jonathan

Class Nbr	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3641	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Weng	Zhiping
2077	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Woodland	Robert
2189	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Xue	Wen
2071	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Zhang	Nanyin
3619	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Ziedonis	Douglas
2069	MDP	740C	MDP	Dev. Solutions Res.Prob.C Yr3	Corvera	Silvia
3445	MDP	741	MDP	Intro. to Translational Med	Corvera	Silvia
3447	MDP	742	MDP	MD/PhD HIPAA & OSHA Cert.	Michelson	Anne
3451	MDP	744	MDP	MD/PhD Learning Communities	Szabo	Gyongyi
3449	MDP	800	MDP	MD/PhD Seminar	Michelson	Anne
3395	MDP	990	MDP	MD/PhD Grad.Res.Stu Post-Disse	Michelson	Anne