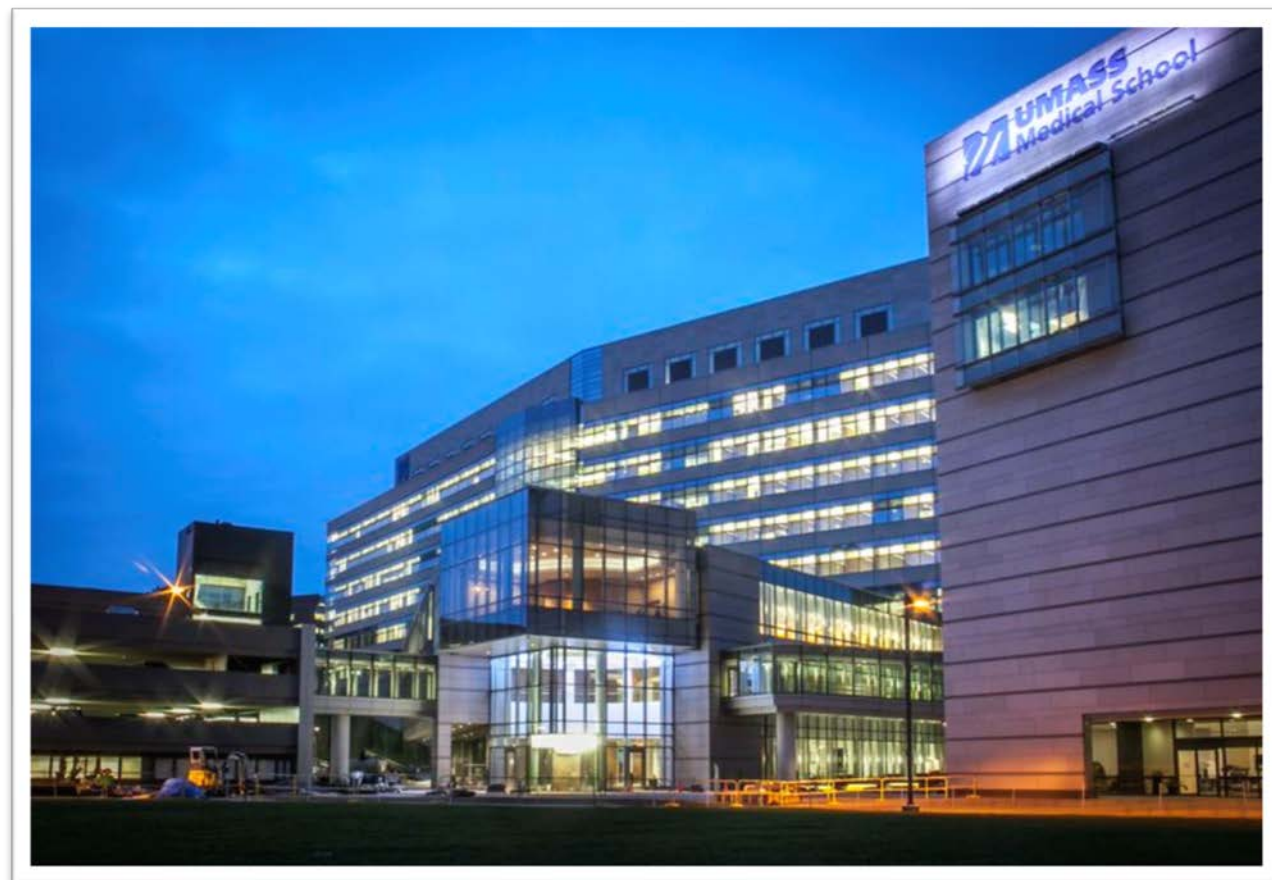




Graduate School of
Biomedical Sciences



Course Catalog & Registration Spring 2018

Registration Open: December 18, 2017 – January 8, 2018

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GSBS SPRING 2018 REGISTRATION INSTRUCTIONS

Registration Period: 12/18/2017-1/8/2018

Final Date for add/drop: 2/15/2018

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 Coordinator 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 SPRING 2018

SPRING

PROGRAM(S)	DESCRIPTION	SESSION ID	START	END
MD/PhD	MD/PhD Session	MDP	1/2/2018	4/27/2018
HSPB	HSPB Session	HSM	1/2/2018	5/25/2018
ALL	HOLIDAY: MLK		1/15/2018	1/15/2018
CPHR, MSCI	CTS Class Session	CPH	1/22/2018	5/10/2018
CPHR, MSCI	CTS Research Session	CTS	1/22/2018	5/18/2018
BBS	Recruitment Weekend (1)		1/26/2018	1/27/2018
BBS, CPHR	Recruitment Weekend (2)		2/2/2018	2/3/2018
BBS, PGSP	Lab Session 1	L1	2/5/2018	3/30/2018
BBS, MPP, PGSP	Regular Academic Session	1	2/5/2018	6/1/2018
BBS, CPHR	ALTERNATE Recruitment Weekend		2/12/2018	2/13/2018
ALL	HOLIDAY: President's Day		2/19/2018	2/19/2018
CPHR, MSCI	CTS Spring Break		3/11/2018	3/18/2018
BBS, PGSP	Lab Session 2	L2	4/2/2018	5/25/2018
ALL	HOLIDAY: Patriot's Day		4/16/2018	4/16/2018
ALL	GSBS Awards Ceremony		5/31/2018	5/31/2018

2018

January

S	M	T	W	Th	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

February

S	M	T	W	Th	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

March

S	M	T	W	Th	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

April

S	M	T	W	Th	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

May

S	M	T	W	Th	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

June

S	M	T	W	Th	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

COURSES FOR REGISTRATION

Basic & Biomedical Sciences Courses

BBS 550 - Laboratory Rotation (PGSP)	Class #: See class number list
<p>Course Description</p> <p>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.</p>	<p>Course Coordinator: Lewis,B email: brian.lewis@umassmed.edu Phone: 6-4325 Location: LRB, 521</p> <p>Course Coordinator 2: Knight,K</p> <p>Prerequisites: None</p> <p>Credits: 2-5</p> <p>Grading: Pass/Marginal Pass/Fail</p> <p>Associated Programs: Pathway to Graduate Study</p> <p>Class Meeting Information:</p> <p>Class Meeting Location:</p> <p>Additional notes:</p> <p>Required Textbooks:</p> <p>Recommended Textbooks:</p>

BBS 603 - Responsible Conduct of Research - Post Doctoral Scholars	Class #: 4112
<p>Course Description</p> <p>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 and additional two-hour session to introduce Individual Development Plans.</p>	<p>Course Coordinator: Imbalzano, A email: anthony.imbalzano@umassmed.edu Phone: 6-3603 Location: S1-824</p> <p>Course Coordinator 2: None</p> <p>Prerequisites: None</p> <p>Credits: 1</p> <p>Grading: Pass/Marginal Pass/Fail</p> <p>Associated Programs: Basic & Biomedical Sciences</p> <p>Class Meeting Information: February 7, 9, 16, 21 and 26 from 9:30a-11:30a</p> <p>Class Meeting Location: S2-351 & 352</p> <p>Additional notes:</p> <p>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</p> <p>Recommended Textbooks:</p>

BBS 718 - Regulatory RNA Biology

Class #: 4627

Course Description

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

Course Coordinator: Ryder,S

email: sean.ryder@umassmed.edu

Phone: 6-1372

Location: LRB 906

Course Coordinator 2: None

Prerequisites: Blocks I, II, III fo the core course or equivalent

Credits: 3

Grading: Letter

Associated Programs: Biochemistry & Molecular Pharmacology

Class Meeting Information: Wednesdays 2p-5p

Class Meeting Location:

Additional notes:

Required Textbooks:

Recommended Textbooks:

BBS 719 - Cellular Biochemistry

Class #: 4182

Course Description

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

Course Coordinator: Thompson,P

email: paul.thompson@umassmed.edu

Phone: 6- 8492

Location: LRB 826

Course Coordinator 2: None

Prerequisites:

Credits: 3

Grading: Letter

Associated Programs: Biochemistry & Molecular Pharmacology

Class Meeting Information: 2/8/2018-5/31/2018 | Tuesdays & Thursdays 1p-2:30p

Class Meeting Location: LRB-816

Additional notes:

Required Textbooks:

Recommended Textbooks:

Course Description

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

Course Coordinator: Mercurio,A

email: Arthur.Mercurio@UMassmed.edu

Phone: 6-8676

Location: LRB 408

Course Coordinator 2: Kelliher,M

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

Credits: 3

Grading: Letter

Associated Programs: Cancer Biology Interdisciplinary

Class Meeting Information: 2/6/2018-5/29/2016 |
Tuesdays 9a-11a & Fridays 9a-10:30a

Class Meeting Location: LRB 4th Floor Conference Room

Additional notes:

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

Recommended Textbooks:

Course Description

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

Course Coordinator: Kowalik, T**email:** Timothy.Kowalik@umassmed.edu**Phone:** 6-6035**Location:** ASC8-2057**Course Coordinator 2:** None**Prerequisites:** GSBS Core Course Blocks I and II**Credits:** 4**Grading:** Letter**Associated Programs:** Immunology & Microbiology**Class Meeting Information:** 2/6/2018-6/1/2018 |
Tuesdays, Thursdays and Fridays 10:30a-12p**Class Meeting Location:** Goff S2-309B**Additional notes:****Required Textbooks:****Recommended Textbooks:**

BBS 755a - Introduction to Immunology

Class #: 2898

Course Description

This is the immunology component of BBS755
Infection and Immune Response

Course Coordinator: Kowalik, T

email: Timothy.Kowalik@umassmed.edu

Phone: 6-6035

Location: ASC8-2057

Course Coordinator 2: None

Prerequisites: GSBS Core Course Blocks I and II

Credits: 2

Grading: Letter

Associated Programs: Immunology & Microbiology

Class Meeting Information: 2/6/2018-3/29/2018 |
Tuesdays, Thursdays and Fridays 10:30a-12p

Class Meeting Location: Goff S2-309B

Additional notes:

Required Textbooks:

Recommended Textbooks:

BBS 755b - Introduction to Bacteriology

Class #: 2900

Course Description

This is the bacteriology component of BBS755
Infection and Immune Response

Course Coordinator: Kowalik, T

email: Timothy.Kowalik@umassmed.edu

Phone: 6-6035

Location: ASC8-2057

Course Coordinator 2: None

Prerequisites: GSBS Core Course Blocks I and II

Credits: 1

Grading: Letter

Associated Programs: Immunology & Microbiology

Class Meeting Information: 3/30/2018-5/1/2018 |
Tuesdays, Thursdays and Fridays 10:30a-12p

Class Meeting Location: Goff S2-309B

Additional notes:

Required Textbooks:

Recommended Textbooks:

BBS 755c - Introduction to Virology

Class #: 2902

Course Description

This is the virology component of BBS755 Infection and Immune Response

Course Coordinator: Kowalik, T

email: Timothy.Kowalik@umassmed.edu

Phone: 6-6035

Location: ASC8-2057

Course Coordinator 2: None

Prerequisites: GSBS Core Course Blocks I and II

Credits: 1

Grading: Letter

Associated Programs: Immunology & Microbiology

Class Meeting Information: 5/3/2018-6/1/2018 |
Tuesdays, Thursdays and Fridays 10:30a-12p

Class Meeting Location: Goff S2-309B

Additional notes:

Required Textbooks:

Recommended Textbooks:

BBS 760 - Introduction to Neuroscience

Class #: 2904

Course Description

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

Course Coordinator: Rittenhouse,A

email: Ann.Rittenhouse@umassmed.edu

Phone: 6-3735

Location: AS8-2041

Course Coordinator 2: None

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

Credits: 3

Grading: Letter

Associated Programs: Neuroscience

Class Meeting Information: Tuesdays & Thursdays
3:00p-4:30p

Class Meeting Location: LRB 7th Floor Conference Room

Additional notes:

Required Textbooks:

Recommended Textbooks: Kandel, Eric R., and Sarah Mack. Principles of Neural Science. McGraw-Hill Medical, 2014. ISBN: 978-0071390118

BBS 761 - Molecular Biology of Cell Cycle

Class #: 4628

Course Description

This course covers genetic, biochemical and cellular mechanisms of cell cycle control. Topics include genetic screens for cell cycle regulators; cell cycle checkpoints; cell cycle regulation of DNA replication and chromosome structure; and the cell cycle in development and cancer.

Course Coordinator: Rhind,N

email: nick.rhind@umassmed.edu

Phone: 6-8316

Location: Research 904

Course Coordinator 2: None

Prerequisites: None

Credits: 2

Grading: Letter

Associated Programs: Interdisciplinary

Class Meeting Information: 2/5/2018-5/21/2018 | Mondays 9a-12p

Class Meeting Location: AS5-1044

Additional notes:

Required Textbooks:

Recommended Textbooks:

BBS 764 - Systems and Computational Biology

Class #: 4626

Course Description

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

Course Coordinator: Walhout,M

email: Marian.Walhout@umassmed.edu

Phone: 6-4364

Location: AS5-1051

Course Coordinator 2: None

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

Credits: 3

Grading: Letter

Associated Programs: Interdisciplinary Bioinformatics & Computational Biology

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

Class Meeting Location:

Additional notes:

Required Textbooks:

Recommended Textbooks:

BBS 786 - Molecular Basis of Disease**Class #: 3538****Course Description**

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

Course Coordinator: Mandrekar, P**email:** pranoti.mandrekar@umassmed.edu**Phone:** 6-5391**Location:** LRB 221**Course Coordinator 2:** None**Prerequisites:** Core Course (may be concurrent)**Credits:** 3**Grading:** Letter**Associated Programs:** Translational Science
Biochemistry & Molecular Pharmacology**Class Meeting Information:** 2/7/2018-5/16/2018 |
Wednesdays 10a-12p**Class Meeting Location:****Additional notes:****Required Textbooks:****Recommended Textbooks:****BBS 801 - RNA Biology Journal Club****Class #: 4108****Course Description**

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.

Course Coordinator: Ambros,V**email:** victor.ambros@umassmed.edu**Phone:** 6-6380**Location:** BT2-306**Course Coordinator 2:** None**Prerequisites:** Permission from course coordinator**Credits:** 1**Grading:** Pass/Marginal Pass/Fail**Associated Programs:** Interdisciplinary**Class Meeting Information:** Tuesdays 10a-12p**Class Meeting Location:** 2 Biotech, 2nd Floor Conference Room**Additional notes:** Schedule and paper to be posted on the website:
<http://www.umassmed.edu/ambroslab/meetings/rna-biology-club-schedule/>**Required Textbooks:****Recommended Textbooks:**

BBS 808 - Journal Club in Neuroscience**Class #: 4048****Course Description**

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.

Course Coordinator: Weaver,D**email:** david.weaver@umassmed.edu**Phone:** 6-2495**Location:** LRB 723**Course Coordinator 2:** None**Prerequisites:** None**Credits:** 2**Grading:** Pass/Marginal Pass/Fail**Associated Programs:** Neuroscience**Class Meeting Information:** 2/7/2018-5/31/2018 |
Wednesday 12p-1p & Thursdays 12:15p-2:20p**Class Meeting Location:** LRB-716**Additional notes:** See Description for additional course meeting times on Thursday.**Required Textbooks:****Recommended Textbooks:****BBS 810 - Graduate Student Seminar Series****Class #: GROUP REGISTERED****Course Description**

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.

Course Coordinator: Kobertz,W**email:** William.Kobertz@Umassmed.edu**Phone:** 6-8861**Location:** LRB 804**Course Coordinator 2:** None**Prerequisites:** None**Credits:** 1**Grading:** Pass/Marginal Pass/Fail**Associated Programs:** Biochemistry & Molecular
Pharmacology**Class Meeting Information:** Fridays 4p-5p**Class Meeting Location:****Additional notes:** Instructor will advise students of start date.**Required Textbooks:****Recommended Textbooks:**

BBS 831 - Interprofessional Education in Clinical Neuroscience

Class #: 4629

Course Description

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.

Course Coordinator: Benjamin,S

email: Sheldon.Benjamin@umassmed.edu

Phone: 6-3066

Location: S7-860

Course Coordinator 2: Weaver,D

Prerequisites: None

Credits: 1

Grading: Pass/Marginal Pass/Fail

Associated Programs: Neuroscience

Class Meeting Information: Ongoing - year round on Mondays 12p-1p (bring bag lunch)

Class Meeting Location: S4-325

Additional notes: Students may also elect to attend the Clinical Neuroscience Seminar Thursdays 2:30-3:30 in S4-325 (ongoing July-June, exact schedule from Vickie.white @umassmed.edu). This is a survey course of the neuroscience of psychiatry and of clinical neuropsychiat

Required Textbooks:

Recommended Textbooks:

BBS 834 - Immunobiology and Virology Spring Seminar Series

Class #: 2908

Course Description

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

Course Coordinator: Chan, F

email: Francis.Chan@Umassmed.edu

Phone: 6-1664

Location: S2-125

Course Coordinator 2: None

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

Credits: 2

Grading: Pass/Marginal Pass/Fail

Associated Programs: Immunology & Microbiology

Class Meeting Information: 2/6/2018-5/31/2018 | Tuesdays 3p-4p and Thursdays 3p-5p

Class Meeting Location: Tuesday classes in AS9-2042; Thursday seminars in AS6-2072 and post-seminar discussions in AS9-2042

Additional notes:

Required Textbooks:

Recommended Textbooks:

BBS 848 - Tutorial in Neuroscience

Class #: 3610

Course Description

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 a faculty member. 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.

Course Coordinator: Weaver,D

email: David.Weaver@UMassmed.edu

Phone: 6-2495

Location: LRB 723

Course Coordinator 2: None

Prerequisites: Permission from Neuroscience Program Director

Credits: 1

Grading: Pass/Marginal Pass/Fail

Associated Programs: Neuroscience

Class Meeting Information: Contact Director for meeting information

Class Meeting Location:

Additional notes:

Required Textbooks:

Recommended Textbooks:

BBS 850 - Laboratory Rotation

Class #: See class number list

Course Description

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.

Course Coordinator: GSBS Full Faculty

email: N/A

Phone: N/A

Location: N/A

Course Coordinator 2: None

Prerequisites: None

Credits: 2-5

Grading: Pass/Marginal Pass/Fail

Associated Programs: Basic & Biomedical Sciences

Class Meeting Information:

Class Meeting Location:

Additional notes:

Required Textbooks:

Recommended Textbooks:

BBS 865 - BBS TRAC Meeting

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

Course Description

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.

Course Coordinator: Lane,M

email: maryellen.lane@umassmed.edu

Phone: 6-4018

Location: S10824

Course Coordinator 2: None

Prerequisites: None

Credits: 1

Grading: Pass/Marginal Pass/Fail

Associated Programs: Basic & Biomedical Sciences

Class Meeting Information:

Class Meeting Location:

Additional notes:

Required Textbooks:

Recommended Textbooks:

BBS 870 - Prequalifying Research

Class #: See class number list

Course Description

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

Course Coordinator: Student's thesis advisor

email: N/A

Phone: N/A

Location: N/A

Course Coordinator 2: None

Prerequisites: None

Credits: 9

Grading: Pass/Marginal Pass/Fail

Associated Programs: Basic & Biomedical Sciences

Class Meeting Information:

Class Meeting Location:

Additional notes:

Required Textbooks:

Recommended Textbooks:

BBS 900 - Thesis Research	Class #: AUTO REGISTERED
<p>Course Description Students register for Thesis Research fall term of year three of the program, after passing the Qualifying Exam.</p>	<p>Course Coordinator: Student's thesis advisor email: N/A Phone: N/A Location: N/A</p> <p>Course Coordinator 2: None</p> <p>Prerequisites: None</p> <p>Credits: 12</p> <p>Grading: Pass/Marginal Pass/Fail</p> <p>Associated Programs: Basic & Biomedical Sciences</p> <p>Class Meeting Information:</p> <p>Class Meeting Location:</p> <p>Additional notes:</p> <p>Required Textbooks:</p> <p>Recommended Textbooks:</p>

BBS 990 - Graduate Research	Class #: AUTO REGISTERED
<p>Course Description 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.</p>	<p>Course Coordinator: Student's thesis advisor email: N/A Phone: N/A Location: N/A</p> <p>Course Coordinator 2: None</p> <p>Prerequisites: None</p> <p>Credits: 0</p> <p>Grading: Pass/Marginal Pass/Fail</p> <p>Associated Programs: Basic & Biomedical Sciences</p> <p>Class Meeting Information:</p> <p>Class Meeting Location:</p> <p>Additional notes:</p> <p>Required Textbooks:</p> <p>Recommended Textbooks:</p>

Clinical & Translational Sciences Courses

CTS 550 - Research Assistantship	Class #: See class number list
<p>Course Description</p> <p>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 on-going 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.</p>	<p>Course Coordinator: Student's advisor email: N/A Phone: N/A Location: N/A</p> <p>Course Coordinator 2: None</p> <p>Prerequisites:</p> <p>Credits: 4</p> <p>Grading: Pass/Marginal Pass/Fail</p> <p>Associated Programs: Pathway to Graduate Study</p> <p>Class Meeting Information:</p> <p>Class Meeting Location:</p> <p>Additional notes:</p> <p>Required Textbooks:</p> <p>Recommended Textbooks:</p>

CTS 602B - Advanced Epidemiology and Research Methods

Class #: 3752

Course Description

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

Course Coordinator: Lapane, K

email: kate.lapane@umassmed.edu

Phone: 6-8965

Location: ASC7-2072

Course Coordinator 2: None

Prerequisites: CTS602A, CTS603A, CTS603B (corequisite)

Credits: 3

Grading: Letter

Associated Programs: Clinical & Population Health Research MS Clinical Investigation

Class Meeting Information: 1/22/2018-5/10/2018 | Tuesday & Thursday 9-10:30 a.m.

Class Meeting Location: AS7-2069

Additional notes:

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

Recommended Textbooks:

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

Class #: 3728

Course Description

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

Course Coordinator: Baek,J

email: Jonggyu.Baek@umassmed.edu

Phone: 774-455-4590

Location: AS9-1081

Course Coordinator 2: None

Prerequisites: CTS603A

Credits: 4

Grading: Letter

Associated Programs: Clinical & Population Health Research MS Clinical Investigation

Class Meeting Information: Tuesday & Thursday 10:30 a.m.-12 p.m., Wednesday 3:30-5 p.m

Class Meeting Location: Tue & Thu: AS8-2042 | Wed AS8-1044

Additional notes:

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

Recommended Textbooks:

CTS 611 - Scientific Writing

Class #: 4578

Course Description

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.

Course Coordinator: Goldberg,R

email: robert.goldberg@umassmed.edu

Phone: 6-3991

Location: BT4-314

Course Coordinator 2: None

Prerequisites: None

Credits: 3

Grading: Letter

Associated Programs: Clinical & Population Health Research MS Clinical Investigation

Class Meeting Information: 1/25/2018-5/10/2018 | Thursdays 3:30p-5p

Class Meeting Location: AS8-2069

Additional notes:

Required Textbooks:

Recommended Textbooks:

CTS 620 - Clinical & Translational Research Seminar

Class #: 4514

Course Description

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.

Course Coordinator: Kiefe,C

email: catarina.kiefe@umassmed.edu

Phone: 6-8999

Location: AS7-1077

Course Coordinator 2: None

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 Programs: MS Clinical Investigation

Class Meeting Information: Please contact Course Director for meeting information

Class Meeting Location:

Additional notes:

Required Textbooks:

Recommended Textbooks:

CTS 717 - Randomized Clinical Trials in Behavioral Research

Class #: 4630

Course Description

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

Course Coordinator: Dube,C

email: catherine.dube@umassmed.edu

Phone: 774-455-3746

Location: AS7-2061

Course Coordinator 2: None

Prerequisites: CTS 702 or permission from instructor.

Credits: 2

Grading: Pass/Marginal Pass/Fail

Associated Programs: Clinical & Population Health Research MS Clinical Investigation

Class Meeting Information: 1/25/2018-5/7/2018 | Thursdays 1-3 p.m.

Class Meeting Location: AS7-2069

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

Required Textbooks: Gitlin LN, Czaja SJ. Behavioral Intervention Research: Designing, Evaluating, and Implementing. New York: Springer, 2016. ISBN 978-0-8261-2658-0

CTS 721 - Infectious Disease Epidemiology

Class #: 4631

Course Description

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

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

Course Coordinator: Moormann, A

email: ann.moormann@umassmed.edu

Phone: 6-8826

Location: Biotech 2, suite 318 or ACC 7th floor

Course Coordinator 2: None

Prerequisites: CTS605A or permission from instructor

Credits: 2

Grading: Pass/Marginal Pass/Fail

Associated Programs: Clinical & Population Health Research MS Clinical Investigation Immunology & Microbiology

Class Meeting Information:

Class Meeting Location:

Additional notes:

Required Textbooks:

Recommended Textbooks:

CTS 736 - Conducting Implementation Research: Designing and Executing Studies for Moving Research into Practice in Health Care and Community Settings

Class #: 4046

Course Description

This class builds on the foundation offered in CTS 735 regarding salient concepts and theories in the field of implementation science to examine key issues in the design and conduct of implementation research. Students will learn about prominent study designs that characterize many implementation trials, the important role that formative assessment plays in informing implementation efforts, and the issues inherent in identifying and measuring appropriate implementation processes and outcomes.

Course Coordinator: Hogan,T

email: timothy.hogan@umassmed.edu

Phone: 6-6063

Location: AS8.1063

Course Coordinator 2: None

Prerequisites: CTS 735 - or instructor permission

Credits: 2

Grading: Letter

Associated Programs: Clinical & Population Health Research MS Clinical Investigation

Class Meeting Information: 1/23/2018-5/8/2018 | Tuesdays 1-3 p.m.

Class Meeting Location: AS8-2069

Additional notes:

Required Textbooks:

Recommended Textbooks:

CTS 737 - Theory and Skills for Academic Health Educators

Class #: 4632

Course Description

This course presents evidence based teaching theories, strategies and skills for individuals interested in the role of faculty in programs preparing students for health professions. Contemporary issues and approaches to educating students with diverse learning needs will be addressed from assessment of learning styles to evaluation of outcomes. Societal influences on the curriculum development process are highlighted along with strategies for enhancing academic career development.

Course Coordinator: Wassef,M

email: Maureen.Wassef@umassmed.edu

Phone: 6-3016

Location:

Course Coordinator 2: None

Prerequisites: None

Credits: 3

Grading:

Associated Programs: Clinical & Population Health Research MS Clinical Investigation

Class Meeting Information: Tuesdays 1-4 p.m.

Class Meeting Location:

Additional notes: This is a blended format course; live class every other week

Required Textbooks:

Recommended Textbooks:

CTS 799 - Independent Study

Class #: See class number list

Course Description

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.

Course Coordinator: Lapane,K

email: kate.lapane@umassmed.edu

Phone: 6-8965

Location: ASC7-2072

Course Coordinator 2: None

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

Credits: 3

Grading: Pass/Marginal Pass/Fail

Associated Programs: Clinical & Population Health Research MS Clinical Investigation

Class Meeting Information:

Class Meeting Location:

Additional notes:

Required Textbooks:

Recommended Textbooks:

CTS 802 - Journal Club**Class #: 3700****Course Description**

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.

Course Coordinator: Golderbg,R**email:** robert.goldberg@umassmed.edu**Phone:** 6-3991**Location:** AS8-2017**Course Coordinator 2:** None**Prerequisites:** None**Credits:** 1**Grading:** Pass/Marginal Pass/Fail**Associated Programs:** Clinical & Population Health Research MS Clinical Investigation**Class Meeting Information:** 1/24/2018-4/2/2018 | Every other Wednesday 4p**Class Meeting Location:** AS8-2071**Additional notes:****Required Textbooks:****Recommended Textbooks:****CTS 850 - Research Assistantship****Class #: See class number list****Course Description**

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.

Course Coordinator: Student's advisor**email:** N/A**Phone:** N/A**Location:** N/A**Course Coordinator 2:** None**Prerequisites:** None**Credits:** 4**Grading:** Pass/Marginal Pass/Fail**Associated Programs:** Clinical & Population Health Research**Class Meeting Information:****Class Meeting Location:****Additional notes:****Required Textbooks:****Recommended Textbooks:**

CTS 855 - Research Seminar**Class #: 4633****Course Description**

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.

Course Coordinator: Goldberg,R**email:** robert.goldberg@umassmed.edu**Phone:** 6-3991**Location:** BT4-314**Course Coordinator 2:** None**Prerequisites:****Credits:** 0**Grading:** Pass/Marginal Pass/Fail**Associated Programs:** Clinical & Population Health Research MS Clinical Investigation**Class Meeting Information:** 2/13/2018-5/8/2018 | 2nd Tuesday of every month 12p-1p**Class Meeting Location:** AS9-2072**Additional notes:****Required Textbooks:****Recommended Textbooks:****CTS 860B - Oral Qualifying Exam****Class #: 3930****Course Description**

This course number is used for students who will defend their dissertation proposal. Students should register for this either in the Spring or Summer of their second year of graduate studies.

Course Coordinator: Lapane,K**email:** kate.lapane@umassmed.edu**Phone:** 6-8965**Location:** AS7.2071**Course Coordinator 2:** None**Prerequisites:****Credits:** 1**Grading:** Pass/Marginal Pass/Fail**Associated Programs:** Clinical & Population Health Research**Class Meeting Information:****Class Meeting Location:****Additional notes:****Required Textbooks:****Recommended Textbooks:**

CTS 865 - CTS TRAC Meeting

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

Course Description

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.

Course Coordinator: Lapane, K
email: kate.lapane@umassmed.edu
Phone: 6-8965
Location: AS7.2071

Course Coordinator 2: Goldberg,R

Prerequisites: None

Credits: 1

Grading: Pass/Marginal Pass/Fail

Associated Programs: Clinical & Population Health Research MS Clinical Investigation

Class Meeting Information:

Class Meeting Location:

Additional notes:

Required Textbooks:

Recommended Textbooks:

CTS 870 - Pre-Thesis Research

Class #: See class number list

Course Description

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

Course Coordinator: Student's thesis advisor
email: N/A
Phone: N/A
Location: N/A

Course Coordinator 2: None

Prerequisites: None

Credits: Variable 3 to 9

Grading: Pass/Marginal Pass/Fail

Associated Programs: Clinical & Population Health Research MS Clinical Investigation

Class Meeting Information:

Class Meeting Location:

Additional notes:

Required Textbooks:

Recommended Textbooks:

CTS 875 - Grant Writing

Class #: 3870

Course Description

The purpose of this course is to allow students to develop their dissertation proposals in a systematic fashion under faculty guidance. The dissertation proposal will be in the format of an NIH R03 grant proposal, and at the end of the semester the student is expected to have completed the dissertation proposal. As such, the course is designed to walk the student through each of the NIH grant proposal requirements and expectations. The course will include detailed reviews of the grant process, participation in a mock proposal review session and the completion of each of the written grant components. It is expected that students will involve their mentor and three-member Thesis Research Advisory Committee (TRAC) in making decisions regarding their proposal and receive their input throughout the semester, so that the student will be prepared to defend the proposal soon after the semester is completed. The course will also be useful as an introduction to NIH proposal writing.

Course Coordinator: Lemon,S

email: Stephenie.Lemon@umassmed.edu

Phone: 6-4098

Location: S7-745

Course Coordinator 2: None

Prerequisites: CTS702, CTS602A, CTS603A or permission of instructor

Credits: 3

Grading: Pass/Marginal Pass/Fail

Associated Programs: Clinical & Population Health Research MS Clinical Investigation

Class Meeting Information: Wednesdays 1p-3p

Class Meeting Location: AS8-2069

Additional notes:

Required Textbooks:

Recommended Textbooks:

CTS 900 - Thesis Research

Class #: AUTO REGISTERED

Course Description

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

Course Coordinator: Student's thesis advisor

email: N/A

Phone: N/A

Location: N/A

Course Coordinator 2: None

Prerequisites: None

Credits: Variable 7 to 12

Grading: Pass/Marginal Pass/Fail

Associated Programs: Clinical & Population Health Research MS Clinical Investigation

Class Meeting Information:

Class Meeting Location:

Additional notes:

Required Textbooks:

Recommended Textbooks:

CTS 990 - Graduate Research

Class #: AUTO REGISTERED

Course Description

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.

Course Coordinator: Student's thesis advisor

email: N/A

Phone: N/A

Location: N/A

Course Coordinator 2: None

Prerequisites: None

Credits: 0

Grading: Pass/Marginal Pass/Fail

Associated Programs: Clinical & Population Health Research

Class Meeting Information:

Class Meeting Location:

Additional notes:

Required Textbooks:

Recommended Textbooks:

Health Sciences Preparatory Program Courses

HSP 502B - Medical Physiology and Histology Part B

Class #: 1005

Course Description

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.

Course Coordinator: Jonassen,J

email: julie.jonassen@umassmed.edu

Phone: 6-5808

Location: S4-117

Course Coordinator 2: None

Prerequisites: BWCT, HSP502A

Credits: 1

Grading: Letter

Associated Programs: Health Sciences Preparatory Program

Class Meeting Information:

Class Meeting Location:

Additional notes:

Required Textbooks:

Recommended Textbooks:

HSP 503 - Epidemiology/Biostatistics

Class #: 1011

Course Description

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

Course Coordinator: Kneeland,M

email: michael.kneeland@umassmed.edu

Phone: 6-5885

Location: S2-333A

Course Coordinator 2: None

Prerequisites:

Credits: 3

Grading: Letter

Associated Programs: Health Sciences Preparatory Program

Class Meeting Information:

Class Meeting Location:

Additional notes:

Required Textbooks:

Recommended Textbooks:

HSP 504B - Academic Achievement Part B

Class #: 1013

Course Description

This course includes the following three elements:

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

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

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

Course Coordinator: Hines,D

email: deborah-harmon.hines@umassmed.edu

Phone: 6-2444

Location: S3-104

Course Coordinator 2: Knight,K

Prerequisites:

Credits: 2

Grading: Letter

Associated Programs: Health Sciences Preparatory Program

Class Meeting Information:

Class Meeting Location:

Additional notes:

Required Textbooks:

Recommended Textbooks:

HSP 505 - Clinical Medicine

Class #: 1007

Course Description

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

Course Coordinator: Garcia, M

email: Maria.garciaMD@umassmed.edu

Phone: 6-5484

Location: S4-129

Course Coordinator 2: Fischer,M

Prerequisites:

Credits: 2

Grading: Letter

Associated Programs: Health Sciences Preparatory Program

Class Meeting Information:

Class Meeting Location:

Additional notes:

Required Textbooks:

Recommended Textbooks:

Course Description

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

Course Coordinator: Person,S

email: sharina.person@umassmed.edu

Phone: 6-4028

Location: QHS AS5-2070

Course Coordinator 2: Aliison,J

Prerequisites:

Credits: 2

Grading: Letter

Associated Programs: Health Sciences Preparatory Program

Class Meeting Information:

Class Meeting Location:

Additional notes:

Required Textbooks:

Recommended Textbooks:

MD/PhD Courses

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

Class #: GROUP REGISTERED

Course Description

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.

Course Coordinator: Corvera,S

email: silvia.corvera@umassmed.edu

Phone: 6-6898

Location: BTII, Suite 107

Course Coordinator 2: None

Prerequisites: None

Credits: 1

Grading: Pass/Marginal Pass/Fail

Associated Programs: MD/PhD

Class Meeting Information:

Class Meeting Location:

Additional notes:

Required Textbooks:

Recommended Textbooks:

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

Class #: See class number list

Course Description

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.

Course Coordinator: Corvera,S

email: silvia.corvera@umassmed.edu

Phone: 6-6898

Location: BTII, Suite 107

Course Coordinator 2: None

Prerequisites: None

Credits: 1

Grading: Pass/Marginal Pass/Fail

Associated Programs: MD/PhD

Class Meeting Information:

Class Meeting Location:

Additional notes:

Required Textbooks:

Recommended Textbooks:

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

Class #: GROUP REGISTERED

Course Description

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.

Course Coordinator: Corvera,S

email: silvia.corvera@umassmed.edu

Phone: 6-6898

Location: BTII, Suite 107

Course Coordinator 2: None

Prerequisites: None

Credits: 1

Grading: Pass/Marginal Pass/Fail

Associated Programs: MD/PhD

Class Meeting Information:

Class Meeting Location:

Additional notes:

Required Textbooks:

Recommended Textbooks:

MDP 741 - Introduction to Translational Medicine

Class #: GROUP REGISTERED

Course Description

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.

Course Coordinator: Corvera,S

email: silvia.corvera@umassmed.edu

Phone: 6-6898

Location: BTII, Suite 107

Course Coordinator 2: None

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

Credits: 1

Grading: Pass/Marginal Pass/Fail

Associated Programs: MD/PhD

Class Meeting Information:

Class Meeting Location:

Additional notes:

Required Textbooks:

Recommended Textbooks:

MDP 744 - MD/PhD Learning Communities**Class #: GROUP REGISTERED****Course Description**

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.

Course Coordinator: Szabo,G**email:** Gyongyi.Szabo@umassmed.edu**Phone:** 6-5275**Location:** LRB-208**Course Coordinator 2:** None**Prerequisites:** None**Credits:** 0**Grading:** Not graded**Associated Programs:** MD/PhD**Class Meeting Information:****Class Meeting Location:****Additional notes:****Required Textbooks:****Recommended Textbooks:****MDP 800 - MD/PhD Seminar****Class #: GROUP REGISTERED****Course Description**

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.

Course Coordinator: Michelson,A**email:** anne.michelson@umassmed.edu**Phone:** 6-4135**Location:** S1-824**Course Coordinator 2:** None**Prerequisites:** None**Credits:** 1**Grading:** Pass/Marginal Pass/Fail**Associated Programs:** MD/PhD**Class Meeting Information:****Class Meeting Location:****Additional notes:****Required Textbooks:****Recommended Textbooks:**

SPRING CLASS NUMBER LIST

Basic & Biomedical Sciences Non-Research Class Numbers

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
4112	BBS	603	1	Resp. Conduct Res. Post Doc. Sch	Imbalzano	Anthony
4627	BBS	718	1	Regulatory RNA Biology	Ryder	Sean
4182	BBS	719	1	Cellular Biochemistry	Thompson	Paul
4512	BBS	725	1	Cancer Biology	Mercurio	Arthur
1852	BBS	755	1	Infection and Immune Response	Kowalik	Timothy
2898	BBS	755A	1	Introduction to Immunology	Kowalik	Timothy
2900	BBS	755B	1	Introduction to Bacteriology	Kowalik	Timothy
2902	BBS	755C	1	Introduction to Virology	Kowalik	Timothy
2904	BBS	760	1	Introduction to Neuroscience	Rittenhouse	Ann
4628	BBS	761	1	Molecular Biology of Cell Cycle	Rhind	Nicholas
4626	BBS	764	1	Systems & Computational Biology	Walhout	Albertha
3538	BBS	786	1	Molecular Basis of Disease	Mandrekar	Pranoti
4108	BBS	801	1	RNA Biology Journal Club	Ambros	Victor
4048	BBS	808	1	Journal Club in Neuroscience	Weaver	David
2906	BBS	810	1	Grad. Student Seminar Series	Kobertz	William
4629	BBS	831	1	Interprof. Edu. in Clin. Neuro	Benjamin	Sheldon
2908	BBS	834	1	Immunobio & Virology Spr Sem	CHAN	Francis Ka Ming
3610	BBS	848	1	Tutorial in Neuroscience	Weaver	David

Basic & Biomedical Sciences Research Class Numbers

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
4666	BBS	550	1	Laboratory Rotation (PGSP)	Cantor	Sharon
4665	BBS	550	1	Laboratory Rotation (PGSP)	Fazzio	Thomas
4664	BBS	550	1	Laboratory Rotation (PGSP)	Melikian	Haley
3546	BBS	850	L1	Laboratory Rotation	Alkema	Mark
3548	BBS	850	L2	Laboratory Rotation	Alkema	Mark
3518	BBS	850	L1	Laboratory Rotation	Alonso	Laura
3522	BBS	850	L2	Laboratory Rotation	Alonso	Laura
4270	BBS	850	L1	Laboratory Rotation	ANACLET	Christelle

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
4272	BBS	850	L2	Laboratory Rotation	ANACLET	Christelle
3672	BBS	850	L1	Laboratory Rotation	Aroian	Raffi
3674	BBS	850	L2	Laboratory Rotation	Aroian	Raffi
1104	BBS	850	L1	Laboratory Rotation	Baehrecke	Eric
1478	BBS	850	L2	Laboratory Rotation	Baehrecke	Eric
3244	BBS	850	L1	Laboratory Rotation	Benanti	Jennifer
3248	BBS	850	L2	Laboratory Rotation	Benanti	Jennifer
1110	BBS	850	L1	Laboratory Rotation	Berg	Leslie
1484	BBS	850	L2	Laboratory Rotation	Berg	Leslie
1114	BBS	850	L1	Laboratory Rotation	Bolon	Daniel
1488	BBS	850	L2	Laboratory Rotation	Bolon	Daniel
1454	BBS	850	L1	Laboratory Rotation	Bosco	Daryl
1826	BBS	850	L2	Laboratory Rotation	Bosco	Daryl
1124	BBS	850	L1	Laboratory Rotation	Budnik	Vivian
1498	BBS	850	L2	Laboratory Rotation	Budnik	Vivian
4210	BBS	850	L1	Laboratory Rotation	BYRNE	Alexandra Catherine
4212	BBS	850	L2	Laboratory Rotation	BYRNE	Alexandra Catherine
1134	BBS	850	L1	Laboratory Rotation	CHAN	Francis Ka Ming
1508	BBS	850	L2	Laboratory Rotation	CHAN	Francis Ka Ming
1144	BBS	850	L1	Laboratory Rotation	Czech	Michael
1518	BBS	850	L2	Laboratory Rotation	Czech	Michael
1146	BBS	850	L1	Laboratory Rotation	Davis	Roger
1520	BBS	850	L2	Laboratory Rotation	Davis	Roger
1158	BBS	850	L1	Laboratory Rotation	EMERY	Patrick
1532	BBS	850	L2	Laboratory Rotation	EMERY	Patrick
3122	BBS	850	L1	Laboratory Rotation	Fazzio	Thomas
3246	BBS	850	L2	Laboratory Rotation	Fazzio	Thomas
1170	BBS	850	L1	Laboratory Rotation	Francis	Michael
3280	BBS	850	L1	Laboratory Rotation	Futai	Kensuke
3282	BBS	850	L2	Laboratory Rotation	Futai	Kensuke

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3114	BBS	850	L1	Laboratory Rotation	Gao	Fen-Biao
3206	BBS	850	L2	Laboratory Rotation	Gao	Fen-Biao
1180	BBS	850	L1	Laboratory Rotation	Gao	Guangping
1554	BBS	850	L2	Laboratory Rotation	Gao	Guangping
3470	BBS	850	L1	Laboratory Rotation	Garber	Manuel
3472	BBS	850	L2	Laboratory Rotation	Garber	Manuel
1178	BBS	850	L1	Laboratory Rotation	Gardner	Paul
1552	BBS	850	L2	Laboratory Rotation	Gardner	Paul
4673	BBS	850	L1	Laboratory Rotation	GREER	Paul Lieberman
4674	BBS	850	L2	Laboratory Rotation	GREER	Paul Lieberman
3040	BBS	850	L1	Laboratory Rotation	Guertin	David
3042	BBS	850	L2	Laboratory Rotation	Guertin	David
3290	BBS	850	L1	Laboratory Rotation	Han	Gang
3276	BBS	850	L2	Laboratory Rotation	Han	Gang
4222	BBS	850	L1	Laboratory Rotation	Haynes	Cole
4224	BBS	850	L2	Laboratory Rotation	Haynes	Cole
4266	BBS	850	L1	Laboratory Rotation	IRAZOQUI	Javier Elbio
4268	BBS	850	L2	Laboratory Rotation	IRAZOQUI	Javier Elbio
1222	BBS	850	L1	Laboratory Rotation	Kang	Joonsoo
1596	BBS	850	L2	Laboratory Rotation	Kang	Joonsoo
3572	BBS	850	L1	Laboratory Rotation	Kelch	Brian
3296	BBS	850	L1	Laboratory Rotation	Khanna	Hemant
3104	BBS	850	L2	Laboratory Rotation	Khanna	Hemant
1086	BBS	850	L1	Laboratory Rotation	Khvorova	Anastasia
1088	BBS	850	L2	Laboratory Rotation	Khvorova	Anastasia
4142	BBS	850	L1	Laboratory Rotation	Kim	Dohoon
4144	BBS	850	L2	Laboratory Rotation	Kim	Dohoon
1452	BBS	850	L1	Laboratory Rotation	Kim	Jason
1824	BBS	850	L2	Laboratory Rotation	Kim	Jason
1234	BBS	850	L1	Laboratory Rotation	Kobertz	William

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
1608	BBS	850	L2	Laboratory Rotation	Kobertz	William
3364	BBS	850	L1	Laboratory Rotation	Korostelev	Andrei
3270	BBS	850	L2	Laboratory Rotation	Korostelev	Andrei
1248	BBS	850	L1	Laboratory Rotation	Lawson	Nathan
1622	BBS	850	L2	Laboratory Rotation	Lawson	Nathan
3584	BBS	850	L1	Laboratory Rotation	Lee	Michael
3586	BBS	850	L2	Laboratory Rotation	Lee	Michael
1258	BBS	850	L1	Laboratory Rotation	Levitz	Stuart
1632	BBS	850	L2	Laboratory Rotation	Levitz	Stuart
1262	BBS	850	L1	Laboratory Rotation	Li	Hong-Sheng
1636	BBS	850	L2	Laboratory Rotation	Li	Hong-Sheng
1450	BBS	850	L1	Laboratory Rotation	Li	Shaoguang
1822	BBS	850	L2	Laboratory Rotation	Li	Shaoguang
4675	BBS	850	L1	Laboratory Rotation	Li	Wenjun
4676	BBS	850	L2	Laboratory Rotation	Li	Wenjun
3462	BBS	850	L1	Laboratory Rotation	Luban	Jeremy
3464	BBS	850	L2	Laboratory Rotation	Luban	Jeremy
3444	BBS	850	L1	Laboratory Rotation	Maehr	Rene
3446	BBS	850	L2	Laboratory Rotation	Maehr	Rene
1844	BBS	850	L1	Laboratory Rotation	Mandrekar	Pranoti
3156	BBS	850	L2	Laboratory Rotation	Mandrekar	Pranoti
1282	BBS	850	L1	Laboratory Rotation	Massi	Francesca
1656	BBS	850	L2	Laboratory Rotation	Massi	Francesca
1286	BBS	850	L1	Laboratory Rotation	McCollum	Dannel
1660	BBS	850	L2	Laboratory Rotation	McCollum	Dannel
1288	BBS	850	L1	Laboratory Rotation	Melikian	Haley
1662	BBS	850	L2	Laboratory Rotation	Melikian	Haley
1292	BBS	850	L1	Laboratory Rotation	Mercurio	Arthur
1666	BBS	850	L2	Laboratory Rotation	Mercurio	Arthur
1294	BBS	850	L1	Laboratory Rotation	Miller	Stephen

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
1668	BBS	850	L2	Laboratory Rotation	Miller	Stephen
4274	BBS	850	L1	Laboratory Rotation	MITCHELL	Amir Zadok
4276	BBS	850	L2	Laboratory Rotation	MITCHELL	Amir Zadok
4677	BBS	850	L1	Laboratory Rotation	Moore	Constance
4678	BBS	850	L2	Laboratory Rotation	Moore	Constance
1846	BBS	850	L1	Laboratory Rotation	Moormann	Ann
3158	BBS	850	L2	Laboratory Rotation	Moormann	Ann
4558	BBS	850	L1	Laboratory Rotation	Muller	Christian
3382	BBS	850	L2	Laboratory Rotation	Muller	Christian
1304	BBS	850	L1	Laboratory Rotation	Munson	Maryann
1676	BBS	850	L2	Laboratory Rotation	Munson	Maryann
3394	BBS	850	L1	Laboratory Rotation	Ortiz-Miranda	Sonia
3396	BBS	850	L2	Laboratory Rotation	Ortiz-Miranda	Sonia
1470	BBS	850	L1	Laboratory Rotation	Ostroff	Gary
1842	BBS	850	L2	Laboratory Rotation	Ostroff	Gary
3680	BBS	850	L1	Laboratory Rotation	Pukkila-Worley	Read
3682	BBS	850	L2	Laboratory Rotation	Pukkila-Worley	Read
3300	BBS	850	L1	Laboratory Rotation	Punzo	Claudio
3126	BBS	850	L2	Laboratory Rotation	Punzo	Claudio
1326	BBS	850	L1	Laboratory Rotation	Ram	Sanjay
1698	BBS	850	L2	Laboratory Rotation	Ram	Sanjay
1328	BBS	850	L1	Laboratory Rotation	Rando	Oliver
1700	BBS	850	L2	Laboratory Rotation	Rando	Oliver
4218	BBS	850	L1	Laboratory Rotation	REBOLDI	Andrea
4220	BBS	850	L2	Laboratory Rotation	REBOLDI	Andrea
1334	BBS	850	L1	Laboratory Rotation	Rhind	Nicholas
1706	BBS	850	L2	Laboratory Rotation	Rhind	Nicholas
1338	BBS	850	L1	Laboratory Rotation	Richter	Joel
1710	BBS	850	L2	Laboratory Rotation	Richter	Joel
1340	BBS	850	L1	Laboratory Rotation	Rivera Perez	Jaime

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
1712	BBS	850	L2	Laboratory Rotation	Rivera Perez	Jaime
1342	BBS	850	L1	Laboratory Rotation	Rock	Kenneth
1714	BBS	850	L2	Laboratory Rotation	Rock	Kenneth
4680	BBS	850	L2	Laboratory Rotation	Rogaev	Evgeny
1350	BBS	850	L1	Laboratory Rotation	Royer	William
1722	BBS	850	L2	Laboratory Rotation	Royer	William
1354	BBS	850	L1	Laboratory Rotation	Ryder	Sean
1726	BBS	850	L2	Laboratory Rotation	Ryder	Sean
1360	BBS	850	L1	Laboratory Rotation	Sassetti	Christopher
1732	BBS	850	L2	Laboratory Rotation	Sassetti	Christopher
4058	BBS	850	L1	Laboratory Rotation	Schafer	Dorothy
4140	BBS	850	L2	Laboratory Rotation	Schafer	Dorothy
1362	BBS	850	L1	Laboratory Rotation	Schiffer	Celia
1734	BBS	850	L2	Laboratory Rotation	Schiffer	Celia
1370	BBS	850	L1	Laboratory Rotation	Shaw	Leslie
1742	BBS	850	L2	Laboratory Rotation	Shaw	Leslie
4214	BBS	850	L1	Laboratory Rotation	Shim	Jae-Hyuck
4216	BBS	850	L2	Laboratory Rotation	Shim	Jae-Hyuck
1372	BBS	850	L1	Laboratory Rotation	Silverman	Neal
1744	BBS	850	L2	Laboratory Rotation	Silverman	Neal
1382	BBS	850	L1	Laboratory Rotation	Song	Jie
1754	BBS	850	L2	Laboratory Rotation	Song	Jie
4692	BBS	850	L1	Laboratory Rotation	Sontheimer	Erik
3686	BBS	850	L2	Laboratory Rotation	Sontheimer	Erik
1392	BBS	850	L1	Laboratory Rotation	Stern	Lawrence
1764	BBS	850	L2	Laboratory Rotation	Stern	Lawrence
1398	BBS	850	L1	Laboratory Rotation	Szabo	Gyongyi
1770	BBS	850	L2	Laboratory Rotation	Szabo	Gyongyi
3688	BBS	850	L1	Laboratory Rotation	Thompson	Paul
3690	BBS	850	L2	Laboratory Rotation	Thompson	Paul

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3514	BBS	850	L1	Laboratory Rotation	Trivedi	Chinmay
3516	BBS	850	L2	Laboratory Rotation	Trivedi	Chinmay
1420	BBS	850	L1	Laboratory Rotation	Walhout	Albertha
1792	BBS	850	L2	Laboratory Rotation	Walhout	Albertha
3490	BBS	850	L1	Laboratory Rotation	Walker	Amy
3492	BBS	850	L2	Laboratory Rotation	Walker	Amy
4130	BBS	850	L1	Laboratory Rotation	Watts	Jonathan
4132	BBS	850	L2	Laboratory Rotation	Watts	Jonathan
1430	BBS	850	L1	Laboratory Rotation	Weng	Zhiping
1802	BBS	850	L2	Laboratory Rotation	Weng	Zhiping
4566	BBS	850	L1	Laboratory Rotation	Xiang	Yang
4544	BBS	850	L2	Laboratory Rotation	Xiang	Yang
1436	BBS	850	L1	Laboratory Rotation	Xu	Zuoshang
1808	BBS	850	L2	Laboratory Rotation	Xu	Zuoshang
4681	BBS	850	L1	Laboratory Rotation	Zitzewitz	Jill
4682	BBS	850	L2	Laboratory Rotation	Zitzewitz	Jill
3550	BBS	870	1	Prequalifying Research	Alkema	Mark
3528	BBS	870	1	Prequalifying Research	Alonso	Laura
3552	BBS	870	1	Prequalifying Research	Ambros	Victor
4286	BBS	870	1	Prequalifying Research	ANACLET	Christelle
3660	BBS	870	1	Prequalifying Research	Aroian	Raffi
2046	BBS	870	1	Prequalifying Research	Aronin	Neil
2050	BBS	870	1	Prequalifying Research	Baehrecke	Eric
3086	BBS	870	1	Prequalifying Research	Bailey	Jeffrey
3566	BBS	870	1	Prequalifying Research	Behar	Samuel
3128	BBS	870	1	Prequalifying Research	Benanti	Jennifer
3012	BBS	870	1	Prequalifying Research	Benard	Claire
2056	BBS	870	1	Prequalifying Research	Berg	Leslie
3542	BBS	870	1	Prequalifying Research	Bergmann	Andreas
2060	BBS	870	1	Prequalifying Research	Bolon	Daniel

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2924	BBS	870	1	Prequalifying Research	Bosco	Daryl
2994	BBS	870	1	Prequalifying Research	Boyer	Edward
2988	BBS	870	1	Prequalifying Research	Brehm	Michael
3616	BBS	870	1	Prequalifying Research	Brewer	Judson
4056	BBS	870	1	Prequalifying Research	Brewster	Robert
2936	BBS	870	1	Prequalifying Research	Brown	Robert
2070	BBS	870	1	Prequalifying Research	Budnik	Vivian
4226	BBS	870	1	Prequalifying Research	BYRNE	Alexandra Catherine
2072	BBS	870	1	Prequalifying Research	Cantor	Sharon
2076	BBS	870	1	Prequalifying Research	Carruthers	Anthony
2078	BBS	870	1	Prequalifying Research	Castilla	Lucio
4146	BBS	870	1	Prequalifying Research	Cavacini	Lisa
3076	BBS	870	1	Prequalifying Research	Ceol	Craig
2080	BBS	870	1	Prequalifying Research	CHAN	Francis Ka Ming
2082	BBS	870	1	Prequalifying Research	Clapham	Paul
2084	BBS	870	1	Prequalifying Research	Clark	Robin
3034	BBS	870	1	Prequalifying Research	Cooper	Marcus
2086	BBS	870	1	Prequalifying Research	Corvera	Silvia
2090	BBS	870	1	Prequalifying Research	Czech	Michael
2092	BBS	870	1	Prequalifying Research	Davis	Roger
2094	BBS	870	1	Prequalifying Research	Dekker	Job
2100	BBS	870	1	Prequalifying Research	Doxsey	Stephen
2104	BBS	870	1	Prequalifying Research	EMERY	Patrick
3124	BBS	870	1	Prequalifying Research	Fazzio	Thomas
2108	BBS	870	1	Prequalifying Research	Finberg	Robert
2112	BBS	870	1	Prequalifying Research	Fitzgerald	Katherine
2114	BBS	870	1	Prequalifying Research	Flotte	Terence
2116	BBS	870	1	Prequalifying Research	Francis	Michael
3372	BBS	870	1	Prequalifying Research	FREEDMAN	Jane
3288	BBS	870	1	Prequalifying Research	Futai	Kensuke

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3116	BBS	870	1	Prequalifying Research	Gao	Fen-Biao
2126	BBS	870	1	Prequalifying Research	Gao	Guangping
3476	BBS	870	1	Prequalifying Research	Garber	Manuel
2124	BBS	870	1	Prequalifying Research	Gardner	Paul
2132	BBS	870	1	Prequalifying Research	Goldberg	Robert
2134	BBS	870	1	Prequalifying Research	Golenbock	Douglas
2136	BBS	870	1	Prequalifying Research	Gottlinger	Heinrich
2140	BBS	870	1	Prequalifying Research	Gravallese	Ellen
2142	BBS	870	1	Prequalifying Research	Green	Michael
4683	BBS	870	1	Prequalifying Research	GREER	Paul Lieberman
2146	BBS	870	1	Prequalifying Research	Greiner	Dale
3474	BBS	870	1	Prequalifying Research	Grunwald	David
3044	BBS	870	1	Prequalifying Research	Guertin	David
3278	BBS	870	1	Prequalifying Research	Han	Gang
3324	BBS	870	1	Prequalifying Research	Harris	John
4232	BBS	870	1	Prequalifying Research	Haynes	Cole
2152	BBS	870	1	Prequalifying Research	Hayward	Lawrence
3598	BBS	870	1	Prequalifying Research	Huh	Jun
2154	BBS	870	1	Prequalifying Research	Huseby	Eric
2156	BBS	870	1	Prequalifying Research	Imbalzano	Anthony
2160	BBS	870	1	Prequalifying Research	Ip	Yicktung
4284	BBS	870	1	Prequalifying Research	IRAZOQUI	Javier Elbio
2162	BBS	870	1	Prequalifying Research	Jacobson	Allan
1036	BBS	870	1	Prequalifying Research	Jones	Peter
2166	BBS	870	1	Prequalifying Research	Jones	Stephen
2168	BBS	870	1	Prequalifying Research	Kang	Joonsoo
3662	BBS	870	1	Prequalifying Research	Karlsson	Elinor
2170	BBS	870	1	Prequalifying Research	Kaufman	Paul
3576	BBS	870	1	Prequalifying Research	Kelch	Brian
2172	BBS	870	1	Prequalifying Research	Kelliher	Michelle

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3318	BBS	870	1	Prequalifying Research	Kennedy	David
3266	BBS	870	1	Prequalifying Research	Khanna	Hemant
1090	BBS	870	1	Prequalifying Research	Khvorova	Anastasia
4148	BBS	870	1	Prequalifying Research	Kim	Dohoon
2922	BBS	870	1	Prequalifying Research	Kim	Jason
2176	BBS	870	1	Prequalifying Research	King	Jean
2180	BBS	870	1	Prequalifying Research	Kobertz	William
2182	BBS	870	1	Prequalifying Research	Kornfeld	Hardy
3112	BBS	870	1	Prequalifying Research	Korostelev	Andrei
2184	BBS	870	1	Prequalifying Research	Kowalik	Timothy
2186	BBS	870	1	Prequalifying Research	Kurt-Jones	Evelyn
3016	BBS	870	1	Prequalifying Research	Landers	John
4596	BBS	870	1	Prequalifying Research	Lane	Mary
2216	BBS	870	1	Prequalifying Research	Lawrence	Jeanne
2218	BBS	870	1	Prequalifying Research	Lawson	Nathan
3588	BBS	870	1	Prequalifying Research	Lee	Michael
2220	BBS	870	1	Prequalifying Research	Lee	Tzumin
2228	BBS	870	1	Prequalifying Research	Levitz	Stuart
2230	BBS	870	1	Prequalifying Research	Lewis	Brian
2232	BBS	870	1	Prequalifying Research	Li	Hong-Sheng
2912	BBS	870	1	Prequalifying Research	Li	Shaoguang
4684	BBS	870	1	Prequalifying Research	Li	Wenjun
2236	BBS	870	1	Prequalifying Research	Libraty	Daniel
2238	BBS	870	1	Prequalifying Research	Lien	Egil
1040	BBS	870	1	Prequalifying Research	Litvak	Vladimir
3132	BBS	870	1	Prequalifying Research	Lois	Carlos
2242	BBS	870	1	Prequalifying Research	Lu	Shan
3460	BBS	870	1	Prequalifying Research	Luban	Jeremy
2244	BBS	870	1	Prequalifying Research	Luckmann	Roger
3448	BBS	870	1	Prequalifying Research	Maehr	Rene

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2958	BBS	870	1	Prequalifying Research	Mandrekar	Pranoti
2938	BBS	870	1	Prequalifying Research	Mao	Junhao
2992	BBS	870	1	Prequalifying Research	Martin	Gilles
2250	BBS	870	1	Prequalifying Research	Massi	Francesca
2252	BBS	870	1	Prequalifying Research	Matthews	Charles
2254	BBS	870	1	Prequalifying Research	McCollum	Dannel
2940	BBS	870	1	Prequalifying Research	McCormick	Beth
2256	BBS	870	1	Prequalifying Research	Melikian	Haley
2260	BBS	870	1	Prequalifying Research	Mello	Craig
2262	BBS	870	1	Prequalifying Research	Mercurio	Arthur
2264	BBS	870	1	Prequalifying Research	Miller	Stephen
4288	BBS	870	1	Prequalifying Research	MITCHELL	Amir Zadok
2266	BBS	870	1	Prequalifying Research	Moore	Melissa
2960	BBS	870	1	Prequalifying Research	Moormann	Ann
2270	BBS	870	1	Prequalifying Research	Morrison	Trudy
3384	BBS	870	1	Prequalifying Research	Muller	Christian
2272	BBS	870	1	Prequalifying Research	Munson	Maryann
2274	BBS	870	1	Prequalifying Research	Newburger	Peter
2278	BBS	870	1	Prequalifying Research	Ockene	Judith
3406	BBS	870	1	Prequalifying Research	Ortiz-Miranda	Sonia
3174	BBS	870	1	Prequalifying Research	Ostroff	Gary
2282	BBS	870	1	Prequalifying Research	Paydarfar	David
2284	BBS	870	1	Prequalifying Research	Pazour	Gregory
2288	BBS	870	1	Prequalifying Research	Peterson	Craig
2290	BBS	870	1	Prequalifying Research	Pryciak	Peter
3664	BBS	870	1	Prequalifying Research	Pukkila-Worley	Read
3328	BBS	870	1	Prequalifying Research	Punzo	Claudio
2292	BBS	870	1	Prequalifying Research	Ram	Sanjay
2294	BBS	870	1	Prequalifying Research	Rando	Oliver
4230	BBS	870	1	Prequalifying Research	REBOLDI	Andrea

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2300	BBS	870	1	Prequalifying Research	Rhind	Nicholas
2304	BBS	870	1	Prequalifying Research	Richter	Joel
2306	BBS	870	1	Prequalifying Research	Rivera Perez	Jaime
2308	BBS	870	1	Prequalifying Research	Rock	Kenneth
4685	BBS	870	1	Prequalifying Research	Rogaev	Evgeny
2310	BBS	870	1	Prequalifying Research	Ross	Alonzo
3072	BBS	870	1	Prequalifying Research	Rothstein	Ann
2316	BBS	870	1	Prequalifying Research	Royer	William
2318	BBS	870	1	Prequalifying Research	Ruiz De Luzuriaga	Katherine
2350	BBS	870	1	Prequalifying Research	Ryder	Sean
2352	BBS	870	1	Prequalifying Research	Sagerstrom	Charles
2356	BBS	870	1	Prequalifying Research	Sassetti	Christopher
4060	BBS	870	1	Prequalifying Research	Schafer	Dorothy
2358	BBS	870	1	Prequalifying Research	Schiffer	Celia
2388	BBS	870	1	Prequalifying Research	Selin	Liisa
3052	BBS	870	1	Prequalifying Research	Sena Esteves	Miguel
2364	BBS	870	1	Prequalifying Research	Shaw	Leslie
4228	BBS	870	1	Prequalifying Research	Shim	Jae-Hyuck
2366	BBS	870	1	Prequalifying Research	Silverman	Neal
2370	BBS	870	1	Prequalifying Research	Sluder	Greenfield
2374	BBS	870	1	Prequalifying Research	Socolovsky	Merav
2376	BBS	870	1	Prequalifying Research	Song	Jie
3666	BBS	870	1	Prequalifying Research	Sontheimer	Erik
2382	BBS	870	1	Prequalifying Research	Stein	Gary
2386	BBS	870	1	Prequalifying Research	Stern	Lawrence
3378	BBS	870	1	Prequalifying Research	Swain	Susan
2430	BBS	870	1	Prequalifying Research	Szabo	Gyongyi
2910	BBS	870	1	Prequalifying Research	Tapper	Andrew
2436	BBS	870	1	Prequalifying Research	Theurkauf	William
3668	BBS	870	1	Prequalifying Research	Thompson	Paul

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2438	BBS	870	1	Prequalifying Research	Tissenbaum	Heidi
3160	BBS	870	1	Prequalifying Research	Torres	Eduardo
3486	BBS	870	1	Prequalifying Research	Trivedi	Chinmay
2442	BBS	870	1	Prequalifying Research	Urano	Fumihiko
2450	BBS	870	1	Prequalifying Research	Walhout	Albertha
3494	BBS	870	1	Prequalifying Research	Walker	Amy
3220	BBS	870	1	Prequalifying Research	Wang	Jennifer
3222	BBS	870	1	Prequalifying Research	Waring	Molly
4134	BBS	870	1	Prequalifying Research	Watts	Jonathan
2456	BBS	870	1	Prequalifying Research	Weaver	David
2458	BBS	870	1	Prequalifying Research	Welsh	Raymond
2460	BBS	870	1	Prequalifying Research	Weng	Zhiping
2462	BBS	870	1	Prequalifying Research	Wolfe	Scot
2464	BBS	870	1	Prequalifying Research	Woodland	Robert
3106	BBS	870	1	Prequalifying Research	Xiang	Yang
2468	BBS	870	1	Prequalifying Research	Xu	Zuoshang
3630	BBS	870	1	Prequalifying Research	Xue	Wen
4616	BBS	870	1	Prequalifying Research	Yu	Hong
2472	BBS	870	1	Prequalifying Research	Zamore	Phillip
2934	BBS	870	1	Prequalifying Research	Zeldovich	Konstantin
2476	BBS	870	1	Prequalifying Research	Zhang	Hong
2478	BBS	870	1	Prequalifying Research	ZHUGE	Ronghua
2044	BBS	870	1	Prequalifying Research	Ziedonis	Douglas
4686	BBS	870	1	Prequalifying Research	Zitzewitz	Jill
3554	BBS	900	1	Thesis Research	Alkema	Mark
3530	BBS	900	1	Thesis Research	Alonso	Laura
4342	BBS	900	MDP	Thesis Research	Alonso	Laura
3556	BBS	900	1	Thesis Research	Ambros	Victor
4296	BBS	900	1	Thesis Research	ANACLET	Christelle
3648	BBS	900	1	Thesis Research	Aroian	Raffi

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
1856	BBS	900	1	Thesis Research	Aronin	Neil
4344	BBS	900	MDP	Thesis Research	Aronin	Neil
1860	BBS	900	1	Thesis Research	Baehrecke	Eric
3088	BBS	900	1	Thesis Research	Bailey	Jeffrey
4346	BBS	900	MDP	Thesis Research	Bailey	Jeffrey
3622	BBS	900	1	Thesis Research	Behar	Samuel
4348	BBS	900	MDP	Thesis Research	Behar	Samuel
3250	BBS	900	1	Thesis Research	Benanti	Jennifer
3018	BBS	900	1	Thesis Research	Benard	Claire
1866	BBS	900	1	Thesis Research	Berg	Leslie
3540	BBS	900	1	Thesis Research	Bergmann	Andreas
1870	BBS	900	1	Thesis Research	Bolon	Daniel
2928	BBS	900	1	Thesis Research	Bosco	Daryl
4350	BBS	900	MDP	Thesis Research	Bosco	Daryl
3010	BBS	900	1	Thesis Research	Boyer	Edward
3004	BBS	900	1	Thesis Research	Brehm	Michael
3618	BBS	900	1	Thesis Research	Brewer	Judson
4062	BBS	900	1	Thesis Research	Brewster	Robert
2944	BBS	900	1	Thesis Research	Brown	Robert
4352	BBS	900	MDP	Thesis Research	Brown	Robert
1880	BBS	900	1	Thesis Research	Budnik	Vivian
4234	BBS	900	1	Thesis Research	BYRNE	Alexandra Catherine
1882	BBS	900	1	Thesis Research	Cantor	Sharon
1886	BBS	900	1	Thesis Research	Carruthers	Anthony
1888	BBS	900	1	Thesis Research	Castilla	Lucio
4150	BBS	900	1	Thesis Research	Cavacini	Lisa
3080	BBS	900	1	Thesis Research	Ceol	Craig
4354	BBS	900	MDP	Thesis Research	Ceol	Craig
1890	BBS	900	1	Thesis Research	CHAN	Francis Ka Ming
1894	BBS	900	1	Thesis Research	Clapham	Paul

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
1896	BBS	900	1	Thesis Research	Clark	Robin
3036	BBS	900	1	Thesis Research	Cooper	Marcus
1898	BBS	900	1	Thesis Research	Corvera	Silvia
1902	BBS	900	1	Thesis Research	Czech	Michael
1904	BBS	900	1	Thesis Research	Davis	Roger
1906	BBS	900	1	Thesis Research	Dekker	Job
1912	BBS	900	1	Thesis Research	Doxsey	Stephen
1916	BBS	900	1	Thesis Research	EMERY	Patrick
3252	BBS	900	1	Thesis Research	Fazzio	Thomas
1920	BBS	900	1	Thesis Research	Finberg	Robert
1926	BBS	900	1	Thesis Research	Flotte	Terence
1928	BBS	900	1	Thesis Research	Francis	Michael
3374	BBS	900	1	Thesis Research	FREEDMAN	Jane
1932	BBS	900	1	Thesis Research	Freeman	Marc
3284	BBS	900	1	Thesis Research	Futai	Kensuke
3118	BBS	900	1	Thesis Research	Gao	Fen-Biao
1938	BBS	900	1	Thesis Research	Gao	Guangping
3480	BBS	900	1	Thesis Research	Garber	Manuel
1936	BBS	900	1	Thesis Research	Gardner	Paul
4356	BBS	900	MDP	Thesis Research	Gardner	Paul
1944	BBS	900	1	Thesis Research	Goldberg	Robert
1946	BBS	900	1	Thesis Research	Golenbock	Douglas
4358	BBS	900	MDP	Thesis Research	Golenbock	Douglas
1948	BBS	900	1	Thesis Research	Gottlinger	Heinrich
1952	BBS	900	1	Thesis Research	Gravallese	Ellen
1954	BBS	900	1	Thesis Research	Green	Michael
4687	BBS	900	1	Thesis Research	GREER	Paul Lieberman
3478	BBS	900	1	Thesis Research	Grunwald	David
3046	BBS	900	1	Thesis Research	Guertin	David
4360	BBS	900	MDP	Thesis Research	Guertin	David

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3338	BBS	900	1	Thesis Research	Han	Gang
3336	BBS	900	1	Thesis Research	Harris	John
4362	BBS	900	MDP	Thesis Research	Harris	John
4240	BBS	900	1	Thesis Research	Haynes	Cole
1964	BBS	900	1	Thesis Research	Hayward	Lawrence
3600	BBS	900	1	Thesis Research	Huh	Jun
4364	BBS	900	MDP	Thesis Research	Huh	Jun
1966	BBS	900	1	Thesis Research	Huseby	Eric
1968	BBS	900	1	Thesis Research	Imbalzano	Anthony
1972	BBS	900	1	Thesis Research	Ip	Yicktung
4294	BBS	900	1	Thesis Research	IRAZOQUI	Javier Elbio
1974	BBS	900	1	Thesis Research	Jacobson	Allan
1044	BBS	900	1	Thesis Research	Jones	Peter
1978	BBS	900	1	Thesis Research	Jones	Stephen
1980	BBS	900	1	Thesis Research	Kang	Joonsoo
3650	BBS	900	1	Thesis Research	Karlsson	Elinor
1982	BBS	900	1	Thesis Research	Kaufman	Paul
3578	BBS	900	1	Thesis Research	Kelch	Brian
2546	BBS	900	1	Thesis Research	Kelliher	Michelle
3330	BBS	900	1	Thesis Research	Kennedy	David
3340	BBS	900	1	Thesis Research	Khanna	Hemant
1092	BBS	900	1	Thesis Research	Khvorova	Anastasia
4152	BBS	900	1	Thesis Research	Kim	Dohoon
2926	BBS	900	1	Thesis Research	Kim	Jason
1990	BBS	900	1	Thesis Research	Kobertz	William
1992	BBS	900	1	Thesis Research	Kornfeld	Hardy
3366	BBS	900	1	Thesis Research	Korostelev	Andrei
1994	BBS	900	1	Thesis Research	Kowalik	Timothy
1996	BBS	900	1	Thesis Research	Kurt-Jones	Evelyn
4366	BBS	900	MDP	Thesis Research	Kurt-Jones	Evelyn

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3022	BBS	900	1	Thesis Research	Landers	John
3502	BBS	900	1	Thesis Research	Lane	Mary
2002	BBS	900	1	Thesis Research	Lawrence	Jeanne
4368	BBS	900	MDP	Thesis Research	Lawrence	Jeanne
2004	BBS	900	1	Thesis Research	Lawson	Nathan
3590	BBS	900	1	Thesis Research	Lee	Michael
4370	BBS	900	MDP	Thesis Research	Lee	Michael
2006	BBS	900	1	Thesis Research	Lee	Tzumin
2014	BBS	900	1	Thesis Research	Levitz	Stuart
2016	BBS	900	1	Thesis Research	Lewis	Brian
2018	BBS	900	1	Thesis Research	Li	Hong-Sheng
4372	BBS	900	MDP	Thesis Research	Li	Hong-Sheng
2914	BBS	900	1	Thesis Research	Li	Shaoguang
4688	BBS	900	1	Thesis Research	Li	Wenjun
2022	BBS	900	1	Thesis Research	Libraty	Daniel
2024	BBS	900	1	Thesis Research	Lien	Egil
1048	BBS	900	1	Thesis Research	Litvak	Vladimir
3134	BBS	900	1	Thesis Research	Lois	Carlos
2028	BBS	900	1	Thesis Research	Lu	Shan
3458	BBS	900	1	Thesis Research	Luban	Jeremy
4667	BBS	900	MDP	Thesis Research	Luban	Jeremy
2030	BBS	900	1	Thesis Research	Luckmann	Roger
3450	BBS	900	1	Thesis Research	Maehr	Rene
2964	BBS	900	1	Thesis Research	Mandrekar	Pranoti
2946	BBS	900	1	Thesis Research	Mao	Junhao
3008	BBS	900	1	Thesis Research	Martin	Gilles
2038	BBS	900	1	Thesis Research	Massi	Francesca
2040	BBS	900	1	Thesis Research	Matthews	Charles
2042	BBS	900	1	Thesis Research	McCollum	Dannel
2948	BBS	900	1	Thesis Research	McCormick	Beth

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
4374	BBS	900	MDP	Thesis Research	McCormick	Beth
2188	BBS	900	1	Thesis Research	Melikian	Haley
2190	BBS	900	1	Thesis Research	Mello	Craig
2192	BBS	900	1	Thesis Research	Mercurio	Arthur
4376	BBS	900	MDP	Thesis Research	Mercurio	Arthur
2194	BBS	900	1	Thesis Research	Miller	Stephen
4300	BBS	900	1	Thesis Research	MITCHELL	Amir Zadok
2196	BBS	900	1	Thesis Research	Moore	Melissa
4378	BBS	900	MDP	Thesis Research	Moore	Melissa
2966	BBS	900	1	Thesis Research	Moormann	Ann
2200	BBS	900	1	Thesis Research	Morrison	Trudy
3386	BBS	900	1	Thesis Research	Muller	Christian
2202	BBS	900	1	Thesis Research	Munson	Maryann
2204	BBS	900	1	Thesis Research	Newburger	Peter
2208	BBS	900	1	Thesis Research	Ockene	Judith
3414	BBS	900	1	Thesis Research	Ortiz-Miranda	Sonia
3176	BBS	900	1	Thesis Research	Ostroff	Gary
2320	BBS	900	1	Thesis Research	Paydarfar	David
2322	BBS	900	1	Thesis Research	Pazour	Gregory
2326	BBS	900	1	Thesis Research	Peterson	Craig
2328	BBS	900	1	Thesis Research	Pryciak	Peter
3652	BBS	900	1	Thesis Research	Pukkila-Worley	Read
3342	BBS	900	1	Thesis Research	Punzo	Claudio
2330	BBS	900	1	Thesis Research	Ram	Sanjay
2332	BBS	900	1	Thesis Research	Rando	Oliver
4238	BBS	900	1	Thesis Research	REBOLDI	Andrea
2338	BBS	900	1	Thesis Research	Rhind	Nicholas
4380	BBS	900	MDP	Thesis Research	Rhind	Nicholas
2342	BBS	900	1	Thesis Research	Richter	Joel
4382	BBS	900	MDP	Thesis Research	Richter	Joel

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2344	BBS	900	1	Thesis Research	Rivera Perez	Jaime
2346	BBS	900	1	Thesis Research	Rock	Kenneth
4384	BBS	900	MDP	Thesis Research	Rock	Kenneth
4689	BBS	900	1	Thesis Research	Rogaev	Evgeny
2348	BBS	900	1	Thesis Research	Ross	Alonzo
3226	BBS	900	1	Thesis Research	Rothstein	Ann
2394	BBS	900	1	Thesis Research	Royer	William
2396	BBS	900	1	Thesis Research	Ruiz De Luzuriaga	Katherine
2398	BBS	900	1	Thesis Research	Ryder	Sean
2400	BBS	900	1	Thesis Research	Sagerstrom	Charles
2404	BBS	900	1	Thesis Research	Sassetti	Christopher
4386	BBS	900	MDP	Thesis Research	Sassetti	Christopher
4064	BBS	900	1	Thesis Research	Schafer	Dorothy
4388	BBS	900	MDP	Thesis Research	Schafer	Dorothy
2406	BBS	900	1	Thesis Research	Schiffer	Celia
4390	BBS	900	MDP	Thesis Research	Schiffer	Celia
2412	BBS	900	1	Thesis Research	Selin	Liisa
3054	BBS	900	1	Thesis Research	Sena Esteves	Miguel
2414	BBS	900	1	Thesis Research	Shaw	Leslie
4392	BBS	900	MDP	Thesis Research	Shaw	Leslie
4236	BBS	900	1	Thesis Research	Shim	Jae-Hyuck
2416	BBS	900	1	Thesis Research	Silverman	Neal
2420	BBS	900	1	Thesis Research	Sluder	Greenfield
2424	BBS	900	1	Thesis Research	Socolovsky	Merav
2480	BBS	900	1	Thesis Research	Song	Jie
4394	BBS	900	MDP	Thesis Research	Song	Jie
3654	BBS	900	1	Thesis Research	Sontheimer	Erik
2484	BBS	900	1	Thesis Research	Stein	Gary
2488	BBS	900	1	Thesis Research	Stern	Lawrence
3344	BBS	900	1	Thesis Research	Swain	Susan

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2494	BBS	900	1	Thesis Research	Szabo	Gyongyi
4396	BBS	900	MDP	Thesis Research	Szabo	Gyongyi
2498	BBS	900	1	Thesis Research	Tapper	Andrew
2502	BBS	900	1	Thesis Research	Theurkauf	William
3656	BBS	900	1	Thesis Research	Thompson	Paul
2504	BBS	900	1	Thesis Research	Tissenbaum	Heidi
1892	BBS	900	1	Thesis Research	Torres	Eduardo
3558	BBS	900	1	Thesis Research	Trivedi	Chinmay
4398	BBS	900	MDP	Thesis Research	Trivedi	Chinmay
2508	BBS	900	1	Thesis Research	Urano	Fumihiko
2516	BBS	900	1	Thesis Research	Walhout	Albertha
4400	BBS	900	MDP	Thesis Research	Walhout	Albertha
3496	BBS	900	1	Thesis Research	Walker	Amy
3228	BBS	900	1	Thesis Research	Wang	Jennifer
3230	BBS	900	1	Thesis Research	Waring	Molly
4136	BBS	900	1	Thesis Research	Watts	Jonathan
2522	BBS	900	1	Thesis Research	Weaver	David
2524	BBS	900	1	Thesis Research	Welsh	Raymond
2526	BBS	900	1	Thesis Research	Weng	Zhiping
4402	BBS	900	MDP	Thesis Research	Weng	Zhiping
2528	BBS	900	1	Thesis Research	Wolfe	Scot
2530	BBS	900	1	Thesis Research	Woodland	Robert
3108	BBS	900	1	Thesis Research	Xiang	Yang
2534	BBS	900	1	Thesis Research	Xu	Zuoshang
3632	BBS	900	1	Thesis Research	Xue	Wen
4404	BBS	900	MDP	Thesis Research	Xue	Wen
4618	BBS	900	1	Thesis Research	Yu	Hong
2538	BBS	900	1	Thesis Research	Zamore	Phillip
4406	BBS	900	MDP	Thesis Research	Zamore	Phillip
2942	BBS	900	1	Thesis Research	Zeldovich	Konstantin

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2542	BBS	900	1	Thesis Research	Zhang	Hong
2544	BBS	900	1	Thesis Research	ZHUGE	Ronghua
1854	BBS	900	1	Thesis Research	Ziedonis	Douglas
4690	BBS	900	1	Thesis Research	Zitzewitz	Jill
3560	BBS	990	1	Graduate Research	Alkema	Mark
3536	BBS	990	1	Graduate Research	Alonso	Laura
3562	BBS	990	1	Graduate Research	Ambros	Victor
4306	BBS	990	1	Graduate Research	ANACLET	Christelle
3636	BBS	990	1	Graduate Research	Aroian	Raffi
2550	BBS	990	1	Graduate Research	Aronin	Neil
4410	BBS	990	MDP	Graduate Research	Aronin	Neil
2554	BBS	990	1	Graduate Research	Baehrecke	Eric
3090	BBS	990	1	Graduate Research	Bailey	Jeffrey
4412	BBS	990	MDP	Graduate Research	Bailey	Jeffrey
3624	BBS	990	1	Graduate Research	Behar	Samuel
4414	BBS	990	MDP	Graduate Research	Behar	Samuel
3254	BBS	990	1	Graduate Research	Benanti	Jennifer
3024	BBS	990	1	Graduate Research	Benard	Claire
2560	BBS	990	1	Graduate Research	Berg	Leslie
3544	BBS	990	1	Graduate Research	Bergmann	Andreas
2564	BBS	990	1	Graduate Research	Bolon	Daniel
2932	BBS	990	1	Graduate Research	Bosco	Daryl
4416	BBS	990	MDP	Graduate Research	Bosco	Daryl
3002	BBS	990	1	Graduate Research	Boyer	Edward
2996	BBS	990	1	Graduate Research	Brehm	Michael
3620	BBS	990	1	Graduate Research	Brewer	Judson
4066	BBS	990	1	Graduate Research	Brewster	Robert
2952	BBS	990	1	Graduate Research	Brown	Robert
4418	BBS	990	MDP	Graduate Research	Brown	Robert
2574	BBS	990	1	Graduate Research	Budnik	Vivian

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
4242	BBS	990	1	Graduate Research	BYRNE	Alexandra Catherine
2576	BBS	990	1	Graduate Research	Cantor	Sharon
2580	BBS	990	1	Graduate Research	Carruthers	Anthony
2582	BBS	990	1	Graduate Research	Castilla	Lucio
4154	BBS	990	1	Graduate Research	Cavacini	Lisa
3084	BBS	990	1	Graduate Research	Ceol	Craig
4420	BBS	990	MDP	Graduate Research	Ceol	Craig
2584	BBS	990	1	Graduate Research	CHAN	Francis Ka Ming
2588	BBS	990	1	Graduate Research	Clapham	Paul
2590	BBS	990	1	Graduate Research	Clark	Robin
3038	BBS	990	1	Graduate Research	Cooper	Marcus
2592	BBS	990	1	Graduate Research	Corvera	Silvia
2596	BBS	990	1	Graduate Research	Czech	Michael
2598	BBS	990	1	Graduate Research	Davis	Roger
2600	BBS	990	1	Graduate Research	Dekker	Job
2606	BBS	990	1	Graduate Research	Doxsey	Stephen
2610	BBS	990	1	Graduate Research	EMERY	Patrick
3256	BBS	990	1	Graduate Research	Fazzio	Thomas
2614	BBS	990	1	Graduate Research	Finberg	Robert
2618	BBS	990	1	Graduate Research	Fitzgerald	Katherine
2620	BBS	990	1	Graduate Research	Flotte	Terence
2622	BBS	990	1	Graduate Research	Francis	Michael
3376	BBS	990	1	Graduate Research	FREEDMAN	Jane
2626	BBS	990	1	Graduate Research	Freeman	Marc
3286	BBS	990	1	Graduate Research	Futai	Kensuke
3120	BBS	990	1	Graduate Research	Gao	Fen-Biao
2632	BBS	990	1	Graduate Research	Gao	Guangping
3484	BBS	990	1	Graduate Research	Garber	Manuel
2630	BBS	990	1	Graduate Research	Gardner	Paul
4422	BBS	990	MDP	Graduate Research	Gardner	Paul

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2638	BBS	990	1	Graduate Research	Goldberg	Robert
2640	BBS	990	1	Graduate Research	Golenbock	Douglas
4424	BBS	990	MDP	Graduate Research	Golenbock	Douglas
2642	BBS	990	1	Graduate Research	Gottlinger	Heinrich
2646	BBS	990	1	Graduate Research	Gravallese	Ellen
2648	BBS	990	1	Graduate Research	Green	Michael
4669	BBS	990	1	Graduate Research	GREER	Paul Lieberman
2652	BBS	990	1	Graduate Research	Greiner	Dale
3482	BBS	990	1	Graduate Research	Grunwald	David
3048	BBS	990	1	Graduate Research	Guertin	David
4426	BBS	990	MDP	Graduate Research	Guertin	David
3356	BBS	990	1	Graduate Research	Han	Gang
3352	BBS	990	1	Graduate Research	Harris	John
4428	BBS	990	MDP	Graduate Research	Harris	John
4248	BBS	990	1	Graduate Research	Haynes	Cole
2658	BBS	990	1	Graduate Research	Hayward	Lawrence
3602	BBS	990	1	Graduate Research	Huh	Jun
4430	BBS	990	MDP	Graduate Research	Huh	Jun
2660	BBS	990	1	Graduate Research	Huseby	Eric
2662	BBS	990	1	Graduate Research	Imbalzano	Anthony
2666	BBS	990	1	Graduate Research	Ip	Yicktung
4304	BBS	990	1	Graduate Research	IRAZOQUI	Javier Elbio
2668	BBS	990	1	Graduate Research	Jacobson	Allan
1052	BBS	990	1	Graduate Research	Jones	Peter
2672	BBS	990	1	Graduate Research	Jones	Stephen
2674	BBS	990	1	Graduate Research	Kang	Joonsoo
3638	BBS	990	1	Graduate Research	Karlsson	Elinor
2676	BBS	990	1	Graduate Research	Kaufman	Paul
4122	BBS	990	1	Graduate Research	Keaney	John
3580	BBS	990	1	Graduate Research	Kelch	Brian

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2678	BBS	990	1	Graduate Research	Kelliher	Michelle
3420	BBS	990	1	Graduate Research	Kennedy	David
3358	BBS	990	1	Graduate Research	Khanna	Hemant
1094	BBS	990	1	Graduate Research	Khvorova	Anastasia
4156	BBS	990	1	Graduate Research	Kim	Dohoon
2930	BBS	990	1	Graduate Research	Kim	Jason
2682	BBS	990	1	Graduate Research	King	Jean
2686	BBS	990	1	Graduate Research	Kobertz	William
2688	BBS	990	1	Graduate Research	Kornfeld	Hardy
3368	BBS	990	1	Graduate Research	Korostelev	Andrei
2690	BBS	990	1	Graduate Research	Kowalik	Timothy
2692	BBS	990	1	Graduate Research	Kurt-Jones	Evelyn
4432	BBS	990	MDP	Graduate Research	Kurt-Jones	Evelyn
3028	BBS	990	1	Graduate Research	Landers	John
2698	BBS	990	1	Graduate Research	Lawrence	Jeanne
4434	BBS	990	MDP	Graduate Research	Lawrence	Jeanne
2700	BBS	990	1	Graduate Research	Lawson	Nathan
3592	BBS	990	1	Graduate Research	Lee	Michael
4436	BBS	990	MDP	Graduate Research	Lee	Michael
2702	BBS	990	1	Graduate Research	Lee	Tzumin
2710	BBS	990	1	Graduate Research	Levitz	Stuart
2712	BBS	990	1	Graduate Research	Lewis	Brian
2714	BBS	990	1	Graduate Research	Li	Hong-Sheng
4438	BBS	990	MDP	Graduate Research	Li	Hong-Sheng
2916	BBS	990	1	Graduate Research	Li	Shaoguang
4670	BBS	990	1	Graduate Research	Li	Wenjun
2718	BBS	990	1	Graduate Research	Libraty	Daniel
2720	BBS	990	1	Graduate Research	Lien	Egil
1056	BBS	990	1	Graduate Research	Litvak	Vladimir
3136	BBS	990	1	Graduate Research	Lois	Carlos

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2724	BBS	990	1	Graduate Research	Lu	Shan
3456	BBS	990	1	Graduate Research	Luban	Jeremy
2726	BBS	990	1	Graduate Research	Luckmann	Roger
3452	BBS	990	1	Graduate Research	Maehr	Rene
2970	BBS	990	1	Graduate Research	Mandrekar	Pranoti
2954	BBS	990	1	Graduate Research	Mao	Junhao
3000	BBS	990	1	Graduate Research	Martin	Gilles
2734	BBS	990	1	Graduate Research	Massi	Francesca
2736	BBS	990	1	Graduate Research	Matthews	Charles
2738	BBS	990	1	Graduate Research	McCollum	Dannel
2956	BBS	990	1	Graduate Research	McCormick	Beth
4440	BBS	990	MDP	Graduate Research	McCormick	Beth
4204	BBS	990	MDP	Graduate Research	McManus	David
2740	BBS	990	1	Graduate Research	Melikian	Haley
2742	BBS	990	1	Graduate Research	Mello	Craig
2744	BBS	990	1	Graduate Research	Mercurio	Arthur
4442	BBS	990	MDP	Graduate Research	Mercurio	Arthur
2746	BBS	990	1	Graduate Research	Miller	Stephen
4308	BBS	990	1	Graduate Research	MITCHELL	Amir Zadok
3348	BBS	990	1	Graduate Research	Moore	Constance
2748	BBS	990	1	Graduate Research	Moore	Melissa
4444	BBS	990	MDP	Graduate Research	Moore	Melissa
2972	BBS	990	1	Graduate Research	Moormann	Ann
2752	BBS	990	1	Graduate Research	Morrison	Trudy
3388	BBS	990	1	Graduate Research	Muller	Christian
2754	BBS	990	1	Graduate Research	Munson	Maryann
2756	BBS	990	1	Graduate Research	Newburger	Peter
2760	BBS	990	1	Graduate Research	Ockene	Judith
3422	BBS	990	1	Graduate Research	Ortiz-Miranda	Sonia
3178	BBS	990	1	Graduate Research	Ostroff	Gary

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2764	BBS	990	1	Graduate Research	Paydarfar	David
2766	BBS	990	1	Graduate Research	Pazour	Gregory
4668	BBS	990	MDP	Graduate Research	Pazour	Gregory
2770	BBS	990	1	Graduate Research	Peterson	Craig
2772	BBS	990	1	Graduate Research	Pryciak	Peter
3640	BBS	990	1	Graduate Research	Pukkila-Worley	Read
3360	BBS	990	1	Graduate Research	Punzo	Claudio
2774	BBS	990	1	Graduate Research	Ram	Sanjay
2776	BBS	990	1	Graduate Research	Rando	Oliver
4246	BBS	990	1	Graduate Research	REBOLDI	Andrea
2782	BBS	990	1	Graduate Research	Rhind	Nicholas
4446	BBS	990	MDP	Graduate Research	Rhind	Nicholas
2786	BBS	990	1	Graduate Research	Richter	Joel
4448	BBS	990	MDP	Graduate Research	Richter	Joel
2788	BBS	990	1	Graduate Research	Rivera Perez	Jaime
2790	BBS	990	1	Graduate Research	Rock	Kenneth
4450	BBS	990	MDP	Graduate Research	Rock	Kenneth
4671	BBS	990	1	Graduate Research	Rogaev	Evgeny
2792	BBS	990	1	Graduate Research	Ross	Alonzo
3236	BBS	990	1	Graduate Research	Rothstein	Ann
2798	BBS	990	1	Graduate Research	Royer	William
2800	BBS	990	1	Graduate Research	Ruiz De Luzuriaga	Katherine
2802	BBS	990	1	Graduate Research	Ryder	Sean
2804	BBS	990	1	Graduate Research	Sagerstrom	Charles
2808	BBS	990	1	Graduate Research	Sassetti	Christopher
4452	BBS	990	MDP	Graduate Research	Sassetti	Christopher
4068	BBS	990	1	Graduate Research	Schafer	Dorothy
4454	BBS	990	MDP	Graduate Research	Schafer	Dorothy
2810	BBS	990	1	Graduate Research	Schiffer	Celia
4456	BBS	990	MDP	Graduate Research	Schiffer	Celia

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2816	BBS	990	1	Graduate Research	Selin	Liisa
3056	BBS	990	1	Graduate Research	Sena Esteves	Miguel
2818	BBS	990	1	Graduate Research	Shaw	Leslie
4458	BBS	990	MDP	Graduate Research	Shaw	Leslie
4244	BBS	990	1	Graduate Research	Shim	Jae-Hyuck
2820	BBS	990	1	Graduate Research	Silverman	Neal
2824	BBS	990	1	Graduate Research	Sluder	Greenfield
2828	BBS	990	1	Graduate Research	Socolovsky	Merav
2830	BBS	990	1	Graduate Research	Song	Jie
4460	BBS	990	MDP	Graduate Research	Song	Jie
2836	BBS	990	1	Graduate Research	Stein	Gary
2840	BBS	990	1	Graduate Research	Stern	Lawrence
3362	BBS	990	1	Graduate Research	Swain	Susan
2846	BBS	990	1	Graduate Research	Szabo	Gyongyi
4462	BBS	990	MDP	Graduate Research	Szabo	Gyongyi
2850	BBS	990	1	Graduate Research	Tapper	Andrew
2854	BBS	990	1	Graduate Research	Theurkauf	William
3644	BBS	990	1	Graduate Research	Thompson	Paul
2856	BBS	990	1	Graduate Research	Tissenbaum	Heidi
2586	BBS	990	1	Graduate Research	Torres	Eduardo
3564	BBS	990	1	Graduate Research	Trivedi	Chinmay
4464	BBS	990	MDP	Graduate Research	Trivedi	Chinmay
2860	BBS	990	1	Graduate Research	Urano	Fumihiko
2868	BBS	990	1	Graduate Research	Walhout	Albertha
4466	BBS	990	MDP	Graduate Research	Walhout	Albertha
3498	BBS	990	1	Graduate Research	Walker	Amy
3238	BBS	990	1	Graduate Research	Wang	Jennifer
3240	BBS	990	1	Graduate Research	Waring	Molly
4138	BBS	990	1	Graduate Research	Watts	Jonathan
2874	BBS	990	1	Graduate Research	Weaver	David

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
2876	BBS	990	1	Graduate Research	Welsh	Raymond
2878	BBS	990	1	Graduate Research	Weng	Zhiping
4468	BBS	990	MDP	Graduate Research	Weng	Zhiping
2880	BBS	990	1	Graduate Research	Wolfe	Scot
2882	BBS	990	1	Graduate Research	Woodland	Robert
3110	BBS	990	1	Graduate Research	Xiang	Yang
4552	BBS	990	MDP	Graduate Research	Xiang	Yang
2886	BBS	990	1	Graduate Research	Xu	Zuoshang
3634	BBS	990	1	Graduate Research	Xue	Wen
4470	BBS	990	MDP	Graduate Research	Xue	Wen
4620	BBS	990	1	Graduate Research	Yu	Hong
2890	BBS	990	1	Graduate Research	Zamore	Phillip
4472	BBS	990	MDP	Graduate Research	Zamore	Phillip
2950	BBS	990	1	Graduate Research	Zeldovich	Konstantin
2894	BBS	990	1	Graduate Research	Zhang	Hong
2896	BBS	990	1	Graduate Research	ZHUGE	Ronghua
2548	BBS	990	1	Graduate Research	Ziedonis	Douglas
4672	BBS	990	1	Graduate Research	Zitzewitz	Jill

Clinical & Translational Sciences Non-Research Class Numbers

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3752	CTS	602B	CPH	Adv Epidemiology & Res Mthds	Lapane	Kate
3728	CTS	603B	CPH	Stat.Meth.Survival&Long.DatAna	BAEK	Jong Gyu
4578	CTS	611	CPH	Scientific Writing	Goldberg	Robert
4514	CTS	620	CPH	Clin & Trans Research Sem	Kiefe	Catarina
4630	CTS	717	CPH	Randomized Clin. Trials BEHRes	Dube	Catherine
4631	CTS	721	CPH	Infectious DiseaseEpidemiology	Moormann	Ann
4046	CTS	736	CPH	Cond. Implementation Research	Hogan	Timothy
4632	CTS	737	CPH	Theory & Skills Aca Hlth Educa	Wassef	Maureen
3878	CTS	799	CPH	Independent Study	Deng	Nina
4166	CTS	799	CPH	Independent Study	Lapane	Kate
4168	CTS	799	CPH	Independent Study	Goldberg	Robert
4584	CTS	799	CPH	Independent Study	Epstein	Mara
3882	CTS	799	CPH	Independent Study	Person	Sharina
4636	CTS	799	CPH	Independent Study	Ma	Yunsheng
3910	CTS	799	CPH	Independent Study	Allison	Jeroan
3912	CTS	799	CPH	Independent Study	Santry	Heena
3914	CTS	799	CPH	Independent Study	Alavi	Karim
3932	CTS	799	CPH	Independent Study	Fang	Hua
4637	CTS	799	CPH	Independent Study	Aidlen	Jeremy
4164	CTS	799	CPH	Independent Study	Lemon	Stephenie
3700	CTS	802	CPH	Journal Club	Goldberg	Robert
4633	CTS	855	CPH	Research Seminar	Goldberg	Robert
3930	CTS	860B	CPH	Oral Qualifying Exam	Lapane	Kate
4635	CTS	865	MDP	CTS TRAC MEETING (MD/PhD)	Lapane	Kate
3870	CTS	875	CTS	Grant Writing	Lemon	Stephenie

Clinical & Translational Sciences Research Class Numbers

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
4534	CTS	550	CTS	Research Assistantship	Epstein	Mara
3866	CTS	550	CTS	Research Assistantship	Lemon	Stephenie
4114	CTS	550	CTS	Research Assistantship	Person	Sharina
3868	CTS	550	CTS	Research Assistantship	Rosal	Milagros
3698	CTS	550	CTS	Research Assistantship	Rosen	Allison
4186	CTS	850	CTS	Research Assistantship	Aidlen	Jeremy
4661	CTS	850	CTS	Research Assistantship	Alavi	Karim
3962	CTS	850	CTS	Research Assistantship	Allison	Jeroan
3968	CTS	850	CTS	Research Assistantship	ANDERSON	Frederick Arthur
4662	CTS	850	CTS	Research Assistantship	Ash	Arlene
3922	CTS	850	CTS	Research Assistantship	Brewer	Judson
3966	CTS	850	CTS	Research Assistantship	Clark	Robin
4660	CTS	850	CTS	Research Assistantship	Epstein	Mara
3874	CTS	850	CTS	Research Assistantship	Goldberg	Robert
3940	CTS	850	CTS	Research Assistantship	Kiefe	Catarina
3720	CTS	850	CTS	Research Assistantship	Lapane	Kate
3964	CTS	850	CTS	Research Assistantship	Lemon	Stephenie
3902	CTS	850	CTS	Research Assistantship	Luckmann	Roger
3710	CTS	850	CTS	Research Assistantship	Mattocks	Kristin
4200	CTS	850	CTS	Research Assistantship	McManus	David
3886	CTS	850	CTS	Research Assistantship	Mick	Eric
3872	CTS	850	CTS	Research Assistantship	Ockene	Judith
3836	CTS	850	CTS	Research Assistantship	Person	Sharina
3702	CTS	850	CTS	Research Assistantship	Rosal	Milagros
3796	CTS	850	CTS	Research Assistantship	Rosen	Allison
3896	CTS	850	CTS	Research Assistantship	Tjia	Jennifer
4663	CTS	850	CTS	Research Assistantship	Ulbricht	Christine
3934	CTS	850	CTS	Research Assistantship	Waring	Molly
3860	CTS	850	CTS	Research Assistantship	Ziedonis	Douglas
4188	CTS	870	CTS	Pre-Thesis Research	Aidlen	Jeremy

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
4580	CTS	870	CTS	Pre-Thesis Research	Alavi	Karim
4655	CTS	870	MDP	Pre-Thesis Research	ANACLET	Christelle
4658	CTS	870	MDP	Pre-Thesis Research	Baehrecke	Eric
4650	CTS	870	MDP	Pre-Thesis Research	Boudreaux	Edwin
4651	CTS	870	MDP	Pre-Thesis Research	Byatt	Nancy
4647	CTS	870	CTS	Pre-Thesis Research	Epstein	Mara
4653	CTS	870	MDP	Pre-Thesis Research	Futai	Kensuke
4648	CTS	870	CTS	Pre-Thesis Research	Goldberg	Robert
4654	CTS	870	MDP	Pre-Thesis Research	Khvorova	Anastasia
4638	CTS	870	CTS	Pre-Thesis Research	Lapane	Kate
4590	CTS	870	CTS	Pre-Thesis Research	Lemon	Stephenie
4198	CTS	870	CTS	Pre-Thesis Research	McManus	David
4649	CTS	870	MDP	Pre-Thesis Research	McManus	David
4592	CTS	870	CTS	Pre-Thesis Research	Ockene	Judith
4582	CTS	870	CTS	Pre-Thesis Research	Pagoto	Sherry
4588	CTS	870	CTS	Pre-Thesis Research	Person	Sharina
4652	CTS	870	MDP	Pre-Thesis Research	Peterson	Craig
4656	CTS	870	MDP	Pre-Thesis Research	Pukkila-Worley	Read
4586	CTS	870	CTS	Pre-Thesis Research	Rosal	Milagros
4657	CTS	870	MDP	Pre-Thesis Research	Sontheimer	Erik
4659	CTS	870	MDP	Pre-Thesis Research	Xue	Wen
4190	CTS	900	CTS	Thesis Research	Aidlen	Jeremy
4641	CTS	900	CTS	Thesis Research	Alavi	Karim
3788	CTS	900	CTS	Thesis Research	Allison	Jeroan
4250	CTS	900	MDP	Thesis Research	Allison	Jeroan
3754	CTS	900	CTS	Thesis Research	ANDERSON	Frederick Arthur
3844	CTS	900	CTS	Thesis Research	Ash	Arlene
3924	CTS	900	CTS	Thesis Research	Brewer	Judson
3760	CTS	900	CTS	Thesis Research	Clark	Robin
4640	CTS	900	CTS	Thesis Research	Epstein	Mara

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3880	CTS	900	CTS	Thesis Research	Goldberg	Robert
3970	CTS	900	CTS	Thesis Research	Harlan	David
3792	CTS	900	CTS	Thesis Research	Kiefe	Catarina
4252	CTS	900	MDP	Thesis Research	Kiefe	Catarina
3822	CTS	900	CTS	Thesis Research	King	Jean
3722	CTS	900	CTS	Thesis Research	Lapane	Kate
3842	CTS	900	CTS	Thesis Research	Lemon	Stephenie
3768	CTS	900	CTS	Thesis Research	Luckmann	Roger
4254	CTS	900	MDP	Thesis Research	Luckmann	Roger
3714	CTS	900	CTS	Thesis Research	Mattocks	Kristin
4196	CTS	900	CTS	Thesis Research	McManus	David
3892	CTS	900	CTS	Thesis Research	Mick	Eric
3846	CTS	900	CTS	Thesis Research	Moore	Constance
4594	CTS	900	CTS	Thesis Research	Moormann	Ann
4639	CTS	900	CTS	Thesis Research	Ockene	Judith
3820	CTS	900	CTS	Thesis Research	Paydarfar	David
3838	CTS	900	CTS	Thesis Research	Person	Sharina
3704	CTS	900	CTS	Thesis Research	Rosal	Milagros
3800	CTS	900	CTS	Thesis Research	Rosen	Allison
3906	CTS	900	CTS	Thesis Research	Saczynski	Jane
3898	CTS	900	CTS	Thesis Research	Tjia	Jennifer
4642	CTS	900	CTS	Thesis Research	Ulbricht	Christine
3936	CTS	900	CTS	Thesis Research	Waring	Molly
3862	CTS	900	CTS	Thesis Research	Ziedonis	Douglas
4192	CTS	990	CTS	Graduate Research	Aidlen	Jeremy
4208	CTS	990	MDP	Graduate Research	Aidlen	Jeremy
4645	CTS	990	CTS	Graduate Research	Alavi	Karim
3778	CTS	990	CTS	Graduate Research	Allison	Jeroan
4256	CTS	990	MDP	Graduate Research	Allison	Jeroan
4336	CTS	990	MDP	Graduate Research	ANACLET	Christelle

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3746	CTS	990	CTS	Graduate Research	ANDERSON	Frederick Arthur
3850	CTS	990	CTS	Graduate Research	Ash	Arlene
3816	CTS	990	CTS	Graduate Research	Bandini	Linda
3814	CTS	990	CTS	Graduate Research	Barton	Bruce
3954	CTS	990	CTS	Graduate Research	Bozorgzadeh	Adel
3926	CTS	990	CTS	Graduate Research	Brewer	Judson
3780	CTS	990	CTS	Graduate Research	Briesacher	Becky
4162	CTS	990	CTS	Graduate Research	Clark	Melissa
3740	CTS	990	CTS	Graduate Research	Clark	Robin
4088	CTS	990	CTS	Graduate Research	Deligiannidis	Kristina
3854	CTS	990	CTS	Graduate Research	DIFRANZA	Joseph
4332	CTS	990	MDP	Graduate Research	Donahue	John
4644	CTS	990	CTS	Graduate Research	Epstein	Mara
3748	CTS	990	CTS	Graduate Research	Etzel	Lori
3730	CTS	990	CTS	Graduate Research	FIELD	Terry
3782	CTS	990	CTS	Graduate Research	Fisher	William
3732	CTS	990	CTS	Graduate Research	Franklin	Patricia
3802	CTS	990	CTS	Graduate Research	Frazier	Jean
3776	CTS	990	CTS	Graduate Research	Goldberg	Robert
3818	CTS	990	CTS	Graduate Research	Houston	Thomas
4334	CTS	990	MDP	Graduate Research	IRAZOQUI	Javier Elbio
4258	CTS	990	MDP	Graduate Research	Kiefe	Catarina
3726	CTS	990	CTS	Graduate Research	King	Jean
3716	CTS	990	CTS	Graduate Research	LAFEMINA	Jennifer
3724	CTS	990	CTS	Graduate Research	Lapane	Kate
3808	CTS	990	CTS	Graduate Research	Lemon	Stephenie
3738	CTS	990	CTS	Graduate Research	Lilly	Craig
3736	CTS	990	CTS	Graduate Research	Luckmann	Roger
4260	CTS	990	MDP	Graduate Research	Luckmann	Roger
3744	CTS	990	CTS	Graduate Research	Madoff	Lawrence

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
3832	CTS	990	CTS	Graduate Research	Marsh	Wendy
3956	CTS	990	CTS	Graduate Research	MARTINS	Paulo
4340	CTS	990	MDP	Graduate Research	MARTINS	Paulo
3718	CTS	990	CTS	Graduate Research	Mattocks	Kristin
4194	CTS	990	CTS	Graduate Research	McManus	David
4206	CTS	990	MDP	Graduate Research	McManus	David
3894	CTS	990	CTS	Graduate Research	Mick	Eric
4338	CTS	990	MDP	Graduate Research	MITCHELL	Amir Zadok
3852	CTS	990	CTS	Graduate Research	Moore	Constance
3750	CTS	990	CTS	Graduate Research	Ockene	Ira
4643	CTS	990	CTS	Graduate Research	Ockene	Judith
3904	CTS	990	CTS	Graduate Research	Paydarfar	David
3840	CTS	990	CTS	Graduate Research	Person	Sharina
3734	CTS	990	CTS	Graduate Research	Reed	George
3706	CTS	990	CTS	Graduate Research	Rosal	Milagros
3804	CTS	990	CTS	Graduate Research	Rosen	Allison
3742	CTS	990	CTS	Graduate Research	Rothman	Alan
3908	CTS	990	CTS	Graduate Research	Saczynski	Jane
3920	CTS	990	CTS	Graduate Research	Santry	Heena
3834	CTS	990	CTS	Graduate Research	Schneider	Kristin
3900	CTS	990	CTS	Graduate Research	Tjia	Jennifer
4646	CTS	990	CTS	Graduate Research	Ulbricht	Christine
3958	CTS	990	CTS	Graduate Research	Walz	Jens
3856	CTS	990	CTS	Graduate Research	Ware	John
3938	CTS	990	CTS	Graduate Research	Waring	Molly
3864	CTS	990	CTS	Graduate Research	Ziedonis	Douglas

Health Sciences Preparatory Program Class Numbers

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
1005	HSP	502B	HSM	Med Physiology & Histology B	Jonassen	Julie
1011	HSP	503	HSM	Epidemiology/Biostatistics	Kneeland	Michael
1013	HSP	504B	HSM	Academic Achievement B	Hines	Deborah
1007	HSP	505	HSM	Clinical Medicine	Garcia	Maria
1009	HSP	506	HSM	Clinical Immersion	Person	Sharina

MD/PhD Class Numbers

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
4622	MDP	613	LSP	MD/PhD Bootcamp	Chimienti	Sonia
3978	MDP	740A	MDP	Dev. Solutions Res.Prob.A Yr1	Corvera	Silvia
4312	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Donahue	John
3998	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Luckmann	Roger
4002	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Bosco	Daryl
4004	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Khanna	Hemant
4070	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Walz	Jens
4008	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Walhout	Albertha
4010	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Harris	John
4014	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Shaw	Leslie
4016	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Schiffer	Celia
4018	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Paydarfar	David
4020	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Trivedi	Chinmay
4314	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	IRAZOQUI	Javier Elbio
3982	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Golenbock	Douglas
4024	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Szabo	Gyongyi
4026	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Lawrence	Jeanne
4028	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Allison	Jeroan
4034	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Punzo	Claudio
4036	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Ash	Arlene
4038	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Lee	Michael
4040	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Ceol	Craig

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
4042	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Moore	Melissa
4044	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Goldberg	Robert
4316	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	ANACLET	Christelle
3984	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Weng	Zhiping
4090	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Deligiannidis	Kristina
4170	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Alonso	Laura
4172	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Schafer	Dorothy
4174	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Mercurio	Arthur
4176	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Xue	Wen
4178	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	McCormick	Beth
4180	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Fitzgerald	Katherine
4202	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	McManus	David
4602	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Peterson	Craig
4318	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	MITCHELL	Amir Zadok
3986	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Bailey	Jeffrey
3988	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Brass	Abraham
4606	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Pukkila-Worley	Read
3996	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Tjia	Jennifer
4598	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Baehrecke	Eric
4600	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Ziedonis	Douglas
3990	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Richter	Joel
3992	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Sassetti	Christopher
3994	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Aronin	Neil
4608	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Tapper	Andrew
4320	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	MARTINS	Paulo
4610	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Khvorova	Anastasia
4612	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Francis	Michael
4614	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Brewer	Judson
4006	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Corvera	Silvia
3972	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Zhang	Nanyin

Class #	Subject	Catalog	Session	Description	Faculty Last	Faculty First
4604	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Rhind	Nicholas
4022	MDP	740B	MDP	Dev. Solutions Res.Prob.B Yr2	Guertin	David
3980	MDP	740C	MDP	Dev. Solutions Res.Prob.C Yr3	Corvera	Silvia
4012	MDP	740C	MDP	Dev. Solutions Res.Prob.C Yr3	Salmoirago Blotcher	Elena
4030	MDP	740C	MDP	Dev. Solutions Res.Prob.C Yr3	Allison	Jeroan
4032	MDP	740C	MDP	Dev. Solutions Res.Prob.C Yr3	Goldberg	Robert
4072	MDP	740C	MDP	Dev. Solutions Res.Prob.C Yr3	Walz	Jens
4092	MDP	740C	MDP	Dev. Solutions Res.Prob.C Yr3	Deligiannidis	Kristina
3974	MDP	741	MDP	Intro. to Translational Med	Corvera	Silvia
4000	MDP	744	MDP	MD/PhD Learning Communities	Szabo	Gyongyi
4624	MDP	760	TR	Transition to CCE	Hatem	David
1003	MDP	761	1	Disabilities Interstitial	Chimienti	Sonia
3976	MDP	800	MDP	MD/PhD Seminar	Michelson	Anne
1016	MDP	990	MDP	MD/PhD Grad.Res.Stu Post-Disse	Michelson	Anne