



Spring 2010 Course Schedule

Consult UMDweb (<http://www.gsbs.umdnj.edu>) or Respective Departments for up-to-date information.

Please note it is the responsibility of the student to contact the respective instructor for the correct times, dates and room information. Instructor e-mail addresses and phone numbers are provided on the schedule.

Divisional Courses

Course No.	Course Title	Instructor	Prerequisites	Credits Grade Mode	Days/Hours Location	Required Materials
Grade Modes: N=Normal; P/F=Pass/Fail; S/U= Satisfactory/Unsatisfactory						
DENT 5085Q	Dental Biochemistry <i>On-line registration not permitted</i> Limited Enrollment 10 students only	Contact Dr. Tsiagbe tsiagbvk@umdnj.edu 973-972-2612 for permission to enroll	This is a NJDS course Special permission required limited enrollment 10 students only	4 N	Jan 4 – June 30 Mondays 10:00 – 11:50 AM Weds Jan 4-Mar 12 is 11:00 - 11:50 AM Wed Mar 15-June 30 is 10:00-11:50 AM MSB / Rm B554	
GINF 5030Q	Special Topics in Bioinformatics	Byrne 856-757-7788 byrne@umdnj.edu	GINF 5001- Fundamentals of Bioinformatics or permission of instructor	1-3 S/U	TBD	None
GSND 5001Q	Ethics in Science, Research & Scholarship	N. Connell 973-972-3759 connell@umdnj.edu	Must Pass Qualifying Exam Mandatory for all PhD Students	1 N	Wednesday 9:30 AM – 11:00 AM January 27 – April 21 MSB B540 a & b	
GSND 5113Q	Gene Expression	E. Goldman 973-972-4483 ext 4367 egoldman@umdnj.edu	Fundamentals of Biomedical Science (Part 1)	2 N	Wednesday 3:00 PM – 5:00 PM Feb 3 – May 26 ICPH Auditorium	
GSND 5115Q	Molecular Basis of Reproduction	L. Goldsmith goldsmi@umdnj.edu	Fundamentals of Biomedical Science (Part 1)	3 N	Tuesday 6:00 PM – 9:00 PM Feb 2 – May 18 MSB / Room E563	

GSND 5215Q	Animal Models in Biomed Research	R. Razavi razavi@umdnj.edu	Fundamentals of Biomedical Science (Part 1) Min 8, Max 24	2 N	Tuesday 7:00 PM – 9:00 PM Cancer Center G1196	
GSND 5225Q	Cancer Biology	E. Moran moranel@umdnj.edu	GSND 5200 (Except by Permission)	3 N	Tues & Thurs Begins January 12 11:00AM – 12:30PM	
GSND N500B	Fundamentals of Biomedical Science (Part 2) Cellular Biology	Depre 973-972-3926 deprech@umdnj.edu		3 N	Wednesday Jan 6 – May 5 6:00 PM – 9:00 PM MSB / B-556	None
GSND 5230Q	Introduction to Clinical Oncology	Mahon 973-972-1591 mahongm@umdnj.edu	Limit 50	1 N	Wednesday Jan 6 – March 3 3:30 PM – 5:00 PM Cancer Center Rm G1196	
GSND 5300Q	Independent Study in Biomedical Sciences	Wagner 973-972-5335 wagner@umdnj.edu		1-4 S	TBD	
GSND 5910Q	MD/PhD Seminar/ Journal Club	Howells 973-972-5652 howells@umdnj.edu	Restricted to students admitted to dual MD/PhD Program	1 - 10 S/U	Mondays Jan – June 5:00 – 6:00 PM MSB/E-609 B	
MPHD 5000Q	MD/PhD Thesis Research	R.D. Howells howells@umdnj.edu 973-972-5652	Restricted to students in MD/PhD program	5 PT 10 FT	TBD	
MPHD 5930Q	MD/PhD Laboratory Research	R.D. Howells howells@umdnj.edu 973-972-5652	Restricted to students in MD/PhD program	1 – 10 S/U	TBD	
MSBS 5000Q	Masters Thesis Research	Garrett 973-972-4483 # 20698 garretst@umdnj.edu		5 S/U	TBD	
MSBS 5100Q	Current Molecular Techniques	Donnelly 973-972-2625 donnelly@umdnj.edu	Permission of Instructor & <i>Maximum of 20</i>	3 N	Tues & Thurs Jan 5 – Mar 18 4:00 PM – 6:00 PM	
MSBS 5120Q	Pharmaceutical Internships	Wagner 973-972-5335 wagner@umdnj.edu		2-3 S/U	TBD	
MSBS 5125Q	Teacher Training Internship	Wagner 973-972-5335 wagner@umdnj.edu	Permission of Dr. Wagner	1-3 S	TBD	

MSBS 593AQ 1 ST Rotation	Research in Biomedical Sciences	Garrett 973-972-4483 # 20698 garretst@umdnj.edu	Use this course # for first rotation	2 N	TBD	
MSBS 593BQ	Research in Biomedical Sciences	Garrett 973-972-4483 # 20698 garretst@umdnj.edu	Use this course # for 2nd rotation	2 S/U	TBD	
PHMS 5025Q	Microbial Biofilms	Kadouri 973-972-7401 Kadourde@umdnj.edu		1 N	Tuesdays Jan 12 – May 11 10:00 AM–11:00 AM NJDS Conf Rm B	
PHPY 5010Q	Human Physiology	Dr. Kenneth Friedman	NJMS course Contact Dr. Garrett for approval to enroll garretst@umdnj.edu <i>On-line registration not permitted</i>	5 N	Monday, Wednesday, Thursday & Friday Jan 4 – Apr 2	
PHPY 5011Q	Discussion in Medical Physiology	Dr. Kenneth Friedman	Only available to students enrolled in Human Physiology	1 S/U	TBD	

EVENING COURSES

Course No. & Grade Mode	Course Title	Instructor	Prerequisites	Credits	Days/Hours Location	Required Materials
Grade Modes: N=Normal; P/F=Pass/Fail; S/U= Satisfactory/Unsatisfactory						
BIOC 5100Q	Molecular Oncology	Lea 973-972-5345 lea@umdnj.edu		2 N	Mondays Jan 11 – May 17 6:00 PM – 8:00PM MSB/Room B-556	Recommended text: R.A. Weinberg, The Biology of Cancer, Garland Science, New York, NY (2007)
BIOC 5125Q	Viruses, Cells and Disease	Mathews 973-972-4411 mathews@umdnj.edu	Introduction to Biomedical Sciences or Permission of Instructor Minimum 10 students	3 N	Thursdays Jan - May MSB E-609b 5:00 pm -8:00 pm	

BIOC 5030Q	Protein Dynamics in Health & Disease	Suzuki 973-972-1555 suzukick@umdnj.edu	GSND 5200 (IBMS Course)	3 N	Tuesday and Thursday March 16 – May 27 MSB C-684 5:00 – 7:00 pm	
BIOC 5330Q	Signaling Mechanisms in Biochemical Systems	Cunningham 973-972-5514 cunnineb@umdnj.edu	Fundamentals of Biomedical Science (Part 1) Masters Only	2 N	Tuesday Feb 16 – May 25 5:00 PM – 7:00 PM MSB / E609B	
CBMM N594A	Regional Gross Anatomy: Thorax & Abdomen	Vasan 973-972-5243 vasanns@umdnj.edu	Minimum 12 Maximum 25 Instructor permission required	3 N	Thursday 5:00 PM – 8:00 PM MSB/Room B527 Anatomy Lab	Provided upon request
GSND 5113Q	Gene Expression	E. Goldman 973-972-4483 ext 4367 egoldman@umdnj.edu	Fundamentals of Biomedical Science (Part 1)	2 N	Wednesday 3:00 PM – 5:00 PM Feb 3 – May 26 ICPH Auditorium	
GSND 5115Q	Molecular Basis of Reproduction	L. Goldsmith goldsmi@umdnj.edu	Fundamentals of Biomedical Science (Part 1)	3 N	Tuesday 6:00 PM – 9:00 PM Feb 2 – May 18 MSB / Room E563	
GSND 5215Q	Animal Models in Biomed Research	R. Razavi razavi@umdnj.edu	Fundamentals of Biomedical Science (Part 1) Min 8, Max 24	2 N	Tuesday 7:00 PM – 9:00 PM Cancer Center G1196	
GSND N500B	Fundamentals of Biomedical Science (Part 2) Cellular Biology	Depre 973-972-3926 deprech@umdnj.edu		3 N	Wednesday Jan 6 – May 5 6:00 PM – 9:00 PM MSB / B-556	None
GSND N5310	Clinical Trials Overview: Methodology & Practice	David Hom 973-972-8699 homdl@umdnj.edu	Minimum 12 Maximum 24	3 N	Thursday Jan 7 – Apr 22 6:00 PM – 8:30 PM SSB / Room 238	
MSBS N512Q	Topics in Cancer Stem Cell Biology	Rameshwar 973-972-0625 rameshwa@umdnj.edu		2 N	Tues & Thurs June 8 – June 24 6:00 PM – 8:00 PM	Materials provided by instructor
MSBS N5010	Seminar in Homeland Security And Domestic Preparedness	B. McCluskey 973-972-6164 mccluske@umdnj.edu	Maximum 20 students	2 N	Mondays Start Jan 11th 5:00 PM – 7:00 PM ADMC 2 Room 201	
MSBS 5100Q	Current Molecular Techniques	Donnelly 973-972-2625 donnely@umdnj.edu	Permission of Instructor & <i>Maximum of 20</i>	3 N	Tues & Thurs Jan 5 – Mar 18 4:00 PM – 6:00 PM	

MSBS N5134	Hematopoietic Stem Cell Biology	Rameshwar 973-972-0625 rameshwa@umdnj.edu		2 N	Monday Jan 25 – March 29 6:00 PM – 8:0 PM	Clinical Hematology ISBN 0-323-01908-0
MSBS N517Q	Introduction to Select Agent Biology	N. Connell 973-972-3759 Connell@umdnj.edu	<i>Fundamentals I or IBMS</i>	2 N	Mon & Wed Jan 11 – Mar 3 3:00 PM – 5:00 PM MSB B540 C & D	
MICR 5231Q	Molecular Virology	Hua Zhu 973-972-4483 ext 26488 zhuhu@umdnj.edu	<i>Fundamentals I or Equivalent</i>	3 N	Mon, Tue, & Thurs May 24 – Jun 30 5:30 PM – 8:30PM ICPH Auditorium	
MICR N5233	Microbes and Infectious Disease	Garrett 973-972-4483 # 20698 garretst@umdnj.edu		3 N	Monday Jan 4 – Apr 26 6:00 PM–9:00 PM ICPH Auditorium	Microbiology : 2 nd Edition Lippincott's Illustrated Review (suggested)
NEUR N5040	Neurobiology of Disease	K. Beck 973-676-1000 ext 3682 beckkd@umdnj.edu		3 N	Thursday Jan 21 – Apr 29 5:30 PM–8:30 PM Room TBD	
PATH 5210Q	Molecular and Cellular Immunology PhD students use this course #	Raveche 973-972-5240 raveches@umdnj.edu	GSND 5200 & 520B-IBMS Course or permission of instructor	3 N	Mon & Wed Jan 27 – May 17 4:30 PM – 6:00 PM	Kuby 6 th Edition Immunology ISBN 978-0-7167-8590-3
PATH N5211	Immunology Masters students use this course #	Raveche 973-972-5240 raveches@umdnj.edu	GSND N500A- Fundamentals of Biomedical Sciences (Part 1) or permission of instructor	3 N	Mon & Wed Jan 27 – May 17 4:30 PM – 6:00 PM	Kuby 6 th Edition Immunology ISBN 978-0-7167-8590-3
PHPY N526Q	Principles of Toxicology II	Labib/Visalli Ramez.Labib@avon.com thomas.visalli@roche.com	<i>None</i>	3 N	Tuesday Feb 9 – May 11 6:00 PM – 9:00 PM MSB /Room B-554	Casarett & Doull's Toxicology: The Basic Science of Poisons, 6 th Edition (2001) or 7 th Edition (2007) by Curtis D. Klaassen (editor). McGraw-Hill Professional Publishing. Text is recommended and not required.

PHPY N5030	Topics in Pharmacology	Howland 973-972-4388 howland@umdnj.edu	<i>Minimum of 8 students</i>	3 N	Thursday Jan 21 – May 27 6:00 PM – 9:00 PM MSB/Room B-554	“Principles of Pharmacology, The Pathophysiological Basis of Drug Therapy”, David Golan, et al. 2 nd edition, Lippincott Williams & Wilkins
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BIOCHEMISTRY & MOLECULAR BIOLOGY

Course No. & Grade Mode	Course Title	Instructor	Prerequisites	Credits	Days/Hours Location	Required Materials
Grade Modes: N=Normal; P/F=Pass/Fail; S/U= Satisfactory/Unsatisfactory						
BIOC 5000Q	Thesis Research	Faculty	Completion of course requirements	5 (PT) 10 (FT) S/U	TBD	
BIOC 5003Q	Advances in Genomics, Proteomics, and Bioinformatics	Tian 973-972-3615 btian@umdnj.edu	Completion of BIOC N5002-Intro to Genomics, Proteomics and Bioinformatics or permission of instructor	2 N	TBD (Minimum of 4 students must be registered for course to be given)	
BIOC 5007Q	Foundations of Biochemistry and Molecular Biology	Kotenko 973-972-3134 kotenkse@umdnj.edu		1 N	Wednesday Jan 13 – Apr 30 5:00 PM – 6:00 PM MSB/Rom E-609B	
BIOC 5012Q	Effective Proposal Writing Strategies	Kaushik-Basu 973-972-8764 kaushik@umdnj.edu	Permission of instructor Open to PhD Students	1 N	Tuesday Jan 26 – Mar 16 1:30 PM – 3:30 PM MSB/Room E-675	
BIOC 502AQ, BQ, CQ*	Biochemical Techniques (Research Rotations)	Mathews & Staff 973-972-4411 mathews@umdnj.edu	BIOC 5170- Molecular Methods in Biochemistry	2 N	TBD	

BIOC 5020Q*	Biochemical Techniques (Research Rotations)	Mathews & Staff 973-972-4411 mathews@umdnj.edu	BIOC 5170- Molecular Methods in Biochemistry	1-10 S/U	TBD	
BIOC 5030Q	Protein Dynamics in Health & Disease	Suzuki 973-972-1555 suzukick@umdnj.edu	GSND 5200 (IBMS Course)	3 N	Tuesday and Thursday March 16 – May 27 MSB C-684 5:00 – 7:00 pm	
BIOC 5125Q	Viruses, Cells and Disease	Mathews 973-972-4411 mathews@umdnj.edu	Introduction to Biomedical Sciences or Permission of Instructor Minimum 10 students	3 N	Thursdays Jan - May MSB E-609b 5:00 pm -8:00 pm	
BIOC 5220Q	Signaling Mechanisms in Biological Systems	Cunningham 973-972-5514 cunnineb@umdnj.edu	Graduate Level Biochemistry PhD Only	3 N	Thursday Jan 7 – May 27 9:00 AM – 11:15 AM MSB / E-609B	
BIOC 5330Q	Signaling Mechanisms in Biochemical Systems	Cunningham 973-972-5514 cunnineb@umdnj.edu	Fundamentals of Biomedical Science (Part 1) Masters Only	2 N	Tuesday Feb 16 – May 25 5:00 PM – 7:00 PM MSB / E609B	
DENT 5085Q	Dental Biochemistry <i>On-line registration not permitted</i> Limited Enrollment 10 students only	Contact Dr. Tsiagbe tsiagbvk@umdnj.edu 973-972-2612 for permission to enroll	This is a NJDS course Special permission required limited enrollment 10 students only	4 N	Mondays 10:00 – 11:50 AM Wednesdays 11:00 - 11:50 AM Jan 4 - Mar 12 MSB / Rm B554	
BIOC 5100Q	Molecular Oncology	Lea 973-972-5345 lea@umdnj.edu		2 N	Mondays Jan 11 – May 17 6:00 PM – 8:00PM MSB/Room B-556	Recommended text: R.A. Weinberg, The Biology of Cancer, Garland Science, New York, NY (2007)
*First three rotations – register for 502 A, B, C respectively – all subsequent rotations register for 502Q 1-10cr S/U						

Biomedical Engineering
Registration in NJIT courses must be done by completing a CHEN form

Course No. & Grade Mode	Course Title	Instructor	Prerequisites	Credits	Days/Hours Location	Required Materials
Grade Modes: N=Normal; P/F=Pass/Fail; S/U= Satisfactory/Unsatisfactory						
BMEG 5000Q	Thesis Research	Faculty	Completion of course requirements	5 (PT) 10 (FT) N	TBD	
BMEG 593AQ, BQ, CQ*	Biomedical Engineering Research	Faculty		2 N	TBD	
BMEG 5930Q*	Biomedical Engineering Research	Faculty		1-10 S/U	TBD	
*First three rotations – register for 593 A, B, C respectively – all subsequent rotations register for 5930Q 1-10cr S/U						

Cell Biology & Molecular Medicine

Course No. & Grade Mode	Course Title	Instructor	Prerequisites	Credits	Days/Hours Location	Required Materials
Grade Modes: N=Normal; P/F=Pass/Fail; S/U= Satisfactory/Unsatisfactory						
CBMM 5000Q	Thesis Research	Faculty	Completion of course requirements	5 (PT) 10 (FT) S/U	TBD	
CBMM 5020Q	Developmental Biology	D. Fraidenraich 973-972-5525 fraidedi@umdnj.edu		2 N	Thursday Feb 18 – May 27 11:00 AM – 1:00 PM MSB/Rm G-609	Provided by Lectures
CBMM 5068Q	Understanding the Molecular Mechanisms of Disease: From Yeast to Humans	Ivessa 973-972-2015 ivessaan@umdnj.edu	Required for all CBMM PhD Students	3 N	Monday and Tuesday Start Feb 15, 2010 4:00 PM – 5:30 PM MSB/Room G609	
CBMM 5065Q	Histophysiology of cells, tissues, and cardiovascular system	Defouw 973-972-5406 defouw@umdnj.edu	Required for all CBMM PhD Students	4 N	TBD	

CBMM 5910Q	Cell Biology Seminar	Abdellatif 973-972-1254 abdellma@umdnj.edu Leibovich 973-972-5404 leibovic@umdnj.edu	Required for all CBMM PhD Students	1 N	Friday Jan 29 – Apr 16 1:00 PM – 2:00 PM MSB / Rm G-609	
CBMM 593AQ, BQ, CQ*	Cell Biology Research	Faculty	First Year Cell Biology Students Only	2 N	TBD	
CBMM 5930Q*	Cell Biology Research	Faculty	First Year Cell Biology Students Only	1-10 S/U	TBD	
CBMM N594A	Regional Gross Anatomy: Thorax & Abdomen	Vasan 973-972-5243 vasanns@umdnj.edu	Minimum 12 Maximum 25 <i>Instructor permission required</i>	3 N	Thursday 5:00 PM – 8:00 PM MSB/Room B527 Anatomy Lab	Provided upon request
*First three rotations – register for 593 A, B, C respectively – all subsequent rotations register for 5930Q 1-10cr S/U						

RUTGERS NEUROSCIENCE COURSES

UMDNJ students not enrolled in the Neuroscience Doctoral program must complete a CHEN cross enrollment form to enroll in these courses. Registration on-line will not be permitted for these courses. Neuroscience students submit add/drop form to Registrar's office to register for the Rutgers courses listed below. All other students must submit a CHEN form which can be obtained from the Registrar's Office.

Course Number	Course Name	Day/Time	Room #	Instructor	Credits
NEUR 5150Q	Developmental Neurobiology		Boyden Hall 421	Jonakait	3
NEUR R628Q	Colloquium in Neuroscience II Colloquium: every 3 rd W Precoll: every 3 rd T	Wednesday 12:00 PM – 1:00 PM	Aidekman 103A	Buzsaki	1
NEUR R651Q	Critical Thinking	Wednesday 1:00 PM – 3:00 PM	Aidekman 103B	Buzsaki	2
26:546:618	Neurobiology of Emotions	Tuesday 9:30 AM – 12:30 PM	Aidekman 204	Pare	3
26:546:501	Neuroanatomy	Tuesday & Friday 4:00 PM – 6:00 PM	Aidekman 103B	Morrell	3

INTEGRATIVE NEUROSCIENCE

Course No. & Grade Mode	Course Title	Instructor	Prerequisites	Credits	Days & Times	Required Materials
Grade Modes: N=Normal; P/F=Pass/Fail; S/U= Satisfactory/Unsatisfactory						
NEUR 5000Q	Thesis Research	Faculty	Completion of course requirements	5 (PT) 10 (FT) S/U	TBD	
NEUR 0596Q	Professional Skills (Open online to PhD Students only Masters Students must obtain permission from instructor)	S. Levison 973-972-5162 levisosw@umdnjl.edu	Enrollment maximum 32 1 st Preference to PhD Students Open online to PhD Students	2 S/U	Thursday 3:00 PM – 4:30 PM (Starts Jan 7)	

NEUR 501BQ	Foundations in Neurosciences II	Creese 973-353-1080 ext 3300 creese@andromeda.rutger s.edu Servatius 973-676-1000 ext 3678 Richard.servatius@va.gov	Permission of instructor	4 N	Tues & Thurs 10:00AM–12:30PM	
NEUR 5010Q	Neuroscience I (Medical Neuroscience)	Siegel 973-972-4471 siegel@umdnj.edu	NJMS course Special permission <i>On-line registration not permitted</i>	4 N	Mon – Fri Apr 20 – Jun 4 MSB / Room B556	
NEUR 5135Q	Research Design and Statistics for the Biomedical Sciences	Myers cemyers@andromeda.rutgers.edu	Permission of instructor	3 N	Tues & Thurs Jan 19 – May 6 1:00pm – 2:30pm	Research Design and Statistical Analysis by Jerome L. Myers & Arnold D. Well
NEUR 5910Q	Seminar in Neuroscience Pre- Sem every 1 st Monday Seminar Every 1 st Wed	Ledeen 973-972-7989 ledeenro@umdnj.edu		1 N	Monday 12:00 PM – 1:45 PM Friday 11:45AM–12:45PM MSB / Room B610	
NEUR 593AQ, BQ, CQ*	Research in Neuroscience (1 st Rotation)	Faculty	Utilize for first rotation	2 N	TBD	
NEUR 5930Q*	Research in Neuroscience	Faculty	(use this course # for 2 nd and all subsequent rotations)	1-10 S/U	TBD	
NEUR N5040	Neurobiology of Disease	K. Beck 973-676-1000 ext 3682 beckkd@umdnj.edu		3 N	Thursday Jan 21 – Apr 29 5:30 PM–8:30 PM Room B-610	
*First three rotations – register for 593 A, B, C respectively – all subsequent rotations register for 5930Q 1-10cr S/U						

Interdisciplinary Program

Course No. & Grade Mode	Course Title	Instructor	Prerequisites	Credits	Days/Hours Location	Required Materials
Grade Modes: N=Normal; P/F=Pass/Fail; S/U= Satisfactory/Unsatisfactory						
PHMS 5000Q	Interdisciplinary Ph.D. Thesis Research	Diamond 973-972-3324 gdiamond@umdnj.edu	Completion of course requirements	5 (PT) 10 (FT) S/U	TBD	
PHMS 5025Q	Microbial Biofilms	Kadouri 973-972-7401 Kadourde@umdnj.edu		1 N	Tuesdays Jan 12 – May 11 10:00 AM – 11:00 AM NJDS Conf Room B	
PHMS 5910Q	Seminar in Biomedical Sciences	Spolarics 973-972-0117 spolaric@umdnj.edu	Current Interdisciplinary Ph.D. students	1 N	Wednesdays Jan 13-May 11 1:00 PM – 2:00PM MSB G-506B	
PHMS 593AQ, BQ, CQ*	Research in Interdisciplinary Biomedical Sciences	Diamond 973-972-3324 gdiamond@umdnj.edu		2 N	TBD	
PHMS 5930Q*	Research in Interdisciplinary in Biomedical Sciences	Diamond 973-972-3324 gdiamond@umdnj.edu		1-10 S/U	TBD	
*First three rotations – register for 593 A, B, C respectively – all subsequent rotations register for 5930Q 1-10cr S/U						

MICROBIOLOGY & MOLECULAR GENETICS

Course No. & Grade Mode	Course Title	Instructor	Prerequisites	Credits	Days/Hours Location	Required Materials
Grade Modes: N=Normal; P/F=Pass/Fail; S/U= Satisfactory/Unsatisfactory						
MICR 5000Q	Thesis Research	Faculty	Completion of course requirements	5 (PT) 10 (FT) S/U	TBD	
MICR 5040Q	Advanced Microbial Genetics	Kaback 973-972-4483 ext 28967 kaback@umdnj.edu	GSND 5200 or Permission of Instructor	6 N	Mon, Wed, Fri Jan – June 9:30 Am – 11:00 AM ICPH Building	
MICR 5231Q	Molecular Virology	Hua Zhu 973-972-4483 # 26488 zhuhu@umdnj.edu	Fundamentals I or Equivalent	3 N	Mon, Tue, Thurs May 24 – June 30 5:30 PM – 8:30 PM ICPH Auditorium	
MICR 5450Q	Topics in Molecular Genetics of Pathogens	Chauhan 973-854-3470 Chauhan1@umdnj.edu	Permission of Instructor	1 N	TBD	
MICR 5480Q	Topics in DNA Metabolism	Humayun 973-972-4483 ext 26396 humayan@umdnj.edu	Permission of Instructor	1 N	TBD	
MICR 5910Q	Microbiology Seminar	Kaback 973-972-4483 # 28967 kaback@umdnj.edu	PhD Students only and Permission of Instructor	1 N	Tuesdays 12:15 PM – 1:15 PM ICPH Auditorium	
MICR 593AQ, BQ, CQ*	Research in Microbiology	Garrett 973-972-4483 # 20698 garretst@umdnj.edu	Matriculated Microbiology Students	2 N	TBD	
MICR 5930Q*	Research in Microbiology	Garrett 973-972-4483 # 20698 garretst@umdnj.edu	Matriculated Microbiology Students	1-10 S/U	TBD	
MICR N5233	Microbes and Infectious Disease	Garrett 973-972-4483 # 20698 garretst@umdnj.edu		3 N	Monday Jan 4 – Apr 26 6:00 PM – 9:00 PM ICPH Auditorium	Microbiology : 2 nd Edition Lippincott's Illustrated Review (suggested)
*First three rotations – register for 593 A, B, C respectively – all subsequent rotations register for 5930Q 1-10cr S/U						

MOLECULAR PATHOLOGY AND IMMUNOLOGY

Course No. & Grade Mode	Course Title	Instructor	Prerequisites	Credits	Days & Times	Required Materials
Grade Modes: N=Normal; P/F=Pass/Fail; S/U= Satisfactory/Unsatisfactory						
PATH 5000Q	Thesis Research	Faculty	Completion of course requirements	5 (PT) 10 (FT) S/U	TBD	
PATH 5070Q	Laboratory Animal Science	Scharf 2-4669 scharfba@umdnj.edu	Limited to 12 Students must meet with professor in advance prior to course acceptance	3 N	Thursday Feb – May 2:00 PM – 4:00 PM MSB / Room A-604	
PATH 5080Q	Immunoglobulins in Host Defense Disease	Coffman 973-972-2861 coffmafd@umdnj.edu	PATH 5210- Molecular & Cell Immunology or permission by instruction	1 N	Wednesday Feb 10 – May 1:00 PM – 2:00 PM MSB / Room C-555	
PATH 5210Q	Molecular and Cellular Immunology PhD students use this course #	Raveche 973-972-5240 raveches@umdnj.edu	GSND 5200 & 520B- IBMS Course or permission of instructor	3 N	Mon & Wed Jan 27 – May 17 4:30 PM – 6:00 PM	Kuby 6 th Edition Immunology ISBN 978-0-7167-8590-3
PATH N5211	Immunology Masters students use this course #	Raveche 973-972-5240 raveches@umdnj.edu	GSND N500A- Fundamentals of Biomedical Sciences (Part 1) or permission of instructor	3 N	Mon & Wed Jan 27 – May 17 4:30 PM – 6:00 PM	Kuby 6 th Edition Immunology ISBN 978-0-7167-8590-3
PATH 593BQ	Research in Experimental Pathology	M. Lambert 973-972-4405 mlambert@umdnj.edu	First year students second rotation	4 (FT) 1-4 (PT) N	TBD	
PATH 593B (for first year students) Full time students register for 4 credits. Part time students in industry register for 1-4 credits.						

ORAL BIOLOGY

Course No. & Grade Mode	Course Title	Instructor	Prerequisites	Credits	Days & Times	Required Materials
Grade Modes: N=Normal; P/F=Pass/Fail; S/U= Satisfactory/Unsatisfactory						
DENT 5000Q	Thesis Research	Fine 973-972-0753 finedh@umdnj.edu	Completion of course requirements	5 (PT) 10 (FT) S/U	TBD	
DENT 5085Q	Dental Biochemistry <i>On-line registration not permitted</i> Limited Enrollment 10 students only	Contact Dr. Tsiagbe tsiagbvk@umdnj.edu 973-972-2612 for permission to enroll	This is a NJDS course Special permission required limited enrollment 10 students only	4 N	Jan 4 – June 30 Mondays 10:00 – 11:50 AM Weds Jan 4-Mar 12 is 11:00 - 11:50 AM Wed Mar 15-June 30 is 10:00-11:50 AM MSB / Rm B554	
DENT 5120Q	Sen. Phys. Masticatory Proc.	Weiner 973-972-4246 weiner@umdnj.edu	Maximum of 20 Prerequisite: Rudimentary knowledge of neurophysiology	1 N	TBD	
DENT 5310Q	Oral Immunology	Tsiagbe tsiagbvk@umdnj.edu 973-972-2612 Fine finedh@umdnj.edu 973-972-3728	Limit of 29 Students	3 N	Thursdays Jan 7 – Apr 15 2:00 pm – 4:50 pm Also, 8:00 AM – 8:50 AM (wk 7 & 10 only) Oral Health Pavilion: B961 (weeks 1-9) B723 (weeks 10 -14)	Janeway's Immunology, 7th edition, 2008, ISBN: 978-0-8153-4123-9 Text is recommended, but not required
DENT 5910Q	Research Seminar	Kachlany 973-972-3057 kachlasc@umdnj.edu	Permission of Instructor	1 N	Friday 1:00 PM – 2:00 PM Start TBA Room TBA	
DENT 593AQ, BQ, CQ*	Research (1 st Rotation)	Faculty	Dental Ph.D.'s only	2 N	TBD	
DENT 5930Q*	Dental Research	Faculty	Dental PhD's only	1-10 S/U	TBD	
PHMS 5025Q	Microbial Biofilms	Kadouri 973-972-7401 Kadourde@umdnj.edu		1 N	Tuesdays Jan 12 – May 11 10:00 AM – 11:00 AM NJDS Conf Room B	
*First three rotations – register for 593 A, B, C respectively – all subsequent rotations register for 5930Q 1-10cr S/U						

PHARMACOLOGY AND PHYSIOLOGY

Course No. & Grade Mode	Course Title	Instructor	Prerequisites	Credits	Days & Times	Required Materials
Grade Modes: N=Normal; P/F=Pass/Fail; S/U= Satisfactory/Unsatisfactory						
PHPY 5000Q	Thesis Research	Pharm/Phys Faculty	Completion of course requirements	5 (PT) 10 (FT) S/U	By Arrangement	None
PHPY 5010Q	Human Physiology	Dr. Kenneth Friedman	NJMS course Contact Dr. Garrett for approval to enroll garretst@umdnj.edu <i>On-line registration not permitted</i>	5 N	Monday, Wednesday, Thursday & Friday Jan 4 – Apr 2	
PHPY 5011Q	Discussion in Medical Physiology	Dr. Kenneth Friedman	Only available to students enrolled in Human Physiology	1 S/U	TBA	
PHPY 529AQ	Physiologic Principles I	Harris 973-972-1620 aharris@umdnj.edu	GSND 520B- Introduction to Biomedical Sciences	3 N	Tues & Thursday Jan 5 – Apr 29 10:00 AM – 12:00 PM	RM Berne and MN Levy, Physiology, 5 th Edition
PHPY 5910Q	Seminars in Pharmacology and Physiology	Nowycky 973-972-4391 Martha.nowycky@umdnj.edu	Ph.D. Students only	1 S/U	Wednesday 1:00 PM – 3:00 PM	None
PHPY 593AQ, BQ, CQ*	Research in Pharmacology and Physiology	Nowycky 973-972-4391 Martha.nowycky@umdnj.edu	Ph.D. Students only	2 N	By arrangement	None
PHPY 5930Q*	Research in Pharmacology and Physiology	Nowycky 973-972-4391 Martha.nowycky@umdnj.edu	Ph.D. Students only	1-10 S/U	By arrangement	None
CBMM 5950Q	Frontiers in Cardiovascular Research	Berlin 973-972-1618 berlinjr@umdnj.edu	Concomitant or previous enrollment in graduate physiology and/or an advanced class in cardiovascular biology course	1 N	Wednesday 2:00 PM – 3:00 PM	None

PHPY N526Q	Principles of Toxicology II	Labib/Visalli Ramez.Labib@avon.com thomas.visalli@roche.com	None	3 N	Tuesday Feb 9 – May 11 6:00 PM – 9:00 PM MSB /Room B-554	Casarett & Doull's Toxicology: The Basic Science of Poisons, 6 th Edition (2001) or 7 th Edition (2007) by Curtis D. Klaassen (editor). McGraw-Hill Professional Publishing. Text is recommended and not required.
PHPY N5030	Topics in Pharmacology	Howland 973-972-4388 howland@umdnj.edu	Minimum of 8 students	3 N	Thursday Jan 21 – May 27 6:00 PM – 9:00 PM MSB/Room B-554	"Principles of Pharmacology, The Pathophysiological Basis of Drug Therapy", David Golan, et al. 2 nd edition, Lippincott Williams & Wilkins
*First three rotations – register for 593 A, B, C respectively – all subsequent rotations register for 5930Q 1-10cr S/U						