Graduate School of Biomedical Sciences

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Course #	Title	Course Director	Prerequisites	Credits	Grade Mode	Day(s)	Start Date	End Date	Start Time	End Time	Location
BIOC 5100Q	Molecular Oncology	Michael A. Lea lea@njms.rutgers.edu 973-972-5345	Open to Masters & PhD students.	2	N	Monday	1/8	5/7	6:00 PM	7:50 PM	ICPH Auditorium Confirmed by instructor
BIOC 5125Q	Viruses, Cells and Disease	Michael Mathews mathews@njms.rutgers.edu 973-972-3133 Sergei Kotenko kotenkse@njms.rutgers.edu 973-972-3134	Open to Masters & PhD students. Approval by Course Directors for Masters students.	2	N	Tuesday & Thursday	1/9	2/27	5:00 PM	6:50 PM	Cancer Center Room G1196 Confirmed by Course Director
CBMM 5020Q	Developmental Biology & Stem Cells	Diego Fraidenraich fraidedi@njms.rutgers.edu 973-972-5525	Open to Masters & PhD students.	2	N	Tuesday & Friday	2/20	4/16	10:00 AM	11:50 PM	MSB Room G609 Confirmed by course instructor
<u>CBMM</u> <u>N5001</u>	Basic Histology	Virgil Muresan, Ph.D. muresavi@njms.rutgers.edu 973-972-2392	Enrollment limit 45.	3	N	Thursday	1/11	4/19	6:00 PM	8:50 PM	MSB Room B-610 Requested
<u>CBMM</u> <u>N594C</u>	Regional Gross Anatomy: Back & Extremities	lan Lee, MD leeir@njms.rutgers.edu	Enrollment limit 35.	3	N	Thursday	1/11	4/19	3:00 PM	4:50 PM	MSB Room B527 (on exam dates 2/15, 3/22 & 4/26 2:00 PM - 5:00 PM)
CBNP 5033Q	Systems Neuroscience	Kevin Beck beckkd@njms.rutgers.edu 973-676-1000 x3682	Enrollment limit 15.	2	N	Tuesday & Wednesday	4/24	6/13	5:00 PM	6:50 PM	Cancer Center Room F1196 Requested
CBNP 5037Q	Regenerative Medicine	Elizabeth Moran moranel@njms.rutgers.edu 973-972-5854 Steve Levison levisosw@njms.rutgers.edu 973-972-5162	Open to Masters & PhD students. Background in cell biology and development suggested.	2	N	Monday & Wednesday	4/23	6/13	3:00 PM	4:50 PM	Cancer Center Room G1196 Requested

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CBNP 5068Q	Molecular Mechanisms of Diseases	Yongkyu Park parky1@njms.rutgers.edu 973-972-2969	Open to Masters & PhD students. Background in Cell and Molecular Biology	3	N	Monday	2/12	5/21	9:00 AM	11:50 AM	MSB Room G609 Confirmed by course instructor
CBNP 5140Q	<u>Topics in</u> Neuroimmunology	Christine Rohowsky-Kochan rohowscm@njms.rutgers.edu 973-972-7394	Open to Masters & PhD students. Immunology A (PATH511A) or Molecular & Cellular Immunology (PATH5210Q) or permission of course director.	2	N	Monday & Wednesday	2/26	4/20	5:00 PM	6:50 PM	MSB Room B617 Requested
CBNP 5160Q	Human Stem Cell Differentiation	Diego Fraidenraich fraidedi@njms.rutgers.edu 973-972-5525	Open to PhD and Masters students Limited size of 8 (Intensive lab Course for 3 weeks)	2	N	Monday through Saturday	6/4	6/22	10:00 AM	11:50 AM	MSB Glevel (iPSC Core) Confirmed by Course Director
CBNP 5255Q	Endocrinology of Growth & Metabolism	Nicholas Illsley illsleni@njms.rutgers.edu nillsley@hackensackumc.org 551-996-8122	Open to Masters & PhD students. Limit of 24 Students.	1	N	Wenesday	1/3	2/21	4:00 PM	5:50 PM	MSB Room B605 Requested
DENT 5025Q	Fundamentals of Dental Materials Science	Anil Ardeshna ardeshap@sdm.rutgers.edu 973-972-1892	Open to Masters & PhD students. Enrollment limit 35. See below for the required/recommended text for the course.	2	N	Friday	1/12	4/20	10:00 AM	11:50 AM	Dental School Room B853, B977 or B978 Requested
			Enrollment limit 15.			Monday			1:00 PM	2:50 PM	
DENT			For undergraduate prerequisite information and enrollment approval,			Tuesday			1:00 PM	2:50 PM	Dental School Oral
5065Q	Dental Physiology	stout@njms.rutgers.edu 973-972-4132	contact Dr. Vincent Tsiagbe at tsiagbvk@sdm.rutgers.edu or 973-	5	N	Wednesday	1/8	3/9	1:00 PM	2:50 PM	Health Pavilion Room B961
		9/3-9/2-4132	972-2612. (See below for required text).			Thursday			1:00 PM	2:50 PM	
			text).			Friday			1:00 PM	2:50 PM	

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DENT	Dental Biochemistry	Michael A. Lea lea@nims.rutgers.edu	Open to Masters & PhD students. This is a Dental School course. Limited intake of 15 students only. Special	4	N	Monday	3/12	6/18	11:00 AM	12:50 PM	Dental School Oral Health Pavilion Room B961
5085Q		973-972-5345	permission required from: Dr. Vincent K. Tsiagbe 973-972-2612	·	Wednesday		,	,	10:00 AM	11:50 AM	confirmed by instructor
DENT 5220Q	Methods in Microscopic Imaging	Kabilan Velliyagounder velliyka@sdm.rutgers.edu 973-972-5051	Open to Masters & PhD students. Enrollment Limit 12.	2	N	Wednesday	1/3	4/18	1:00 PM	2:50 PM	Dental School Room C987 confirmed by instructor
		Scott Kachlany	Open to both Masters and PhD			Monday			10:00 AM	11:50 AM	Dental School Oral
DENT 5300Q	Oral Microbiology	kachlasc@sdm.rutgers.edu	students. Enrollment limit of 75. (See	ee 3 N	Wednesday 1/3	1/3 2/28	10:00 AM	11:50 AM	Health Pavilion Room B963 confirmed by		
		973-972-3057	below for required text).		Friday			10:00 AM	11:50 AM	instructor	
		Limit of 75 students.	Monday		2	2:00 PM	3:50 PM				
DENT 5310Q	Oral Immunology		3/12	3/12 4/23	1:00 PM	2:50 PM	Oral Health Pavilion B-963				
		973-972-2612				Wenesday			8:00 AM	9:50 AM	
DENT 5910Q	Oral Biology Research Seminar	Scott Kachlany kachlasc@sdm.rutgers.edu 973-972-3057	Open to Masters & PhD students.	1	N	Friday	1/19	3/30	1:00 PM	1:50 PM	MSB Room B554 Requested
GSND 5008Q	QA/QI Research in Clinical Settings	Ping-Hsin Chen chenpi@njms.rutgers.edu 973-972-7351 Steven Keller sek1949@gmail.com 973-972-5036	Open to Masters & PhD students. Prior experience in chart reviews and statistical analysis are not assumed or required. Enrollment limit of 35. Immunizations according to Rutgers policy.	3	N	Thursday	1/11	4/19	12:00 PM	1:50 PM	MSB Room B522 Confirmed
GSND 5113Q	Gene Expression	Emanuel Goldman egoldman@njms.rutgers.edu 973-972-4367	Open to Masters students only in the Spring semester. Enrollment limit 75.	3	N	Monday & Thursday	4/30	6/28	2:20 PM	4:50 PM	ICPH Auditorium Confirmed by instructor

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GSND 5300Q	Independent Study in Biomedical Sciences	Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899		1 to 4	S	By Arrangement					
GSND 5325Q	Introduction to Bio- Medical Ethics	Dr. Michael E. Shapiro mes362@njms.rutgers.edu 973- 972-6639	Open to Masters and PhS students Enrollment Limit 30	2	N	Thursday	1/4/18	4/26/18	10:00 AM	11:50 AM	MSB Room B605 Requested
GSND 5501Q	Medical Biochemistry & Genetics	M. Zafri Humayun	Open to Masters students only for approval, contact Dr. Stephen Garrrett at garretst@nims.rutgers.edu	5	N	Monday through Friday	1/8	2/16	2:00 PM	4:50 PM	ICPH Auditorium Confirmed by instructor
GSND N500B	Fundamentals of Biomedical Science Part B: Cellular Biology	Diego Fraidenraich fraidedi@njms.rutgers.edu 973-972-5525	Open to Masters students only.	3	N	Wednesday	1/17	5/23	6:00 PM	8:50 PM	MSB Room B556 Requested
MBGC 5002Q	Introduction to Genomics, Proteomics, and Bioinformatics	Maryam Hassimi mh1140@scarletmail.rutgers.edu Vivian Bellofatto bellofat@rutgers.edu	Open to Masters & PhD students. IBMS (GSND 5200Q) or Fundamentals A (GSND N500A) or permission of the course director.	2	N	Monday & Wednesday	2/26	4/18	10:00 AM	11:50 AM	MSB Room B540A&B Requested
MICR 5231Q	Molecular Virology	Hua Zhu zhuhu@njms.rutgers.edu 973-972-6488	Open to Masters & PhD students. Fundamentals A (GSND N500A), or IBMS (GSND 5200Q), or MGM (GSND 5210Q), or permission of course director.	3	N	Monday, Tuesday, Thursday	6/4	7/3	5:30 PM	8:20 PM	ICPH Auditorium Confirmed by instructor
MICR N5233	Microbes and Infectious Disease	Stephen Garrett garretst@njms.rutgers.edu 973-972-4511	Open to Masters & PhD students.	3	N	Tuesday	1/2	4/24	2:00 PM	4:50 PM	MSB Room B610 Confirmed
MSBS 5000Q	Masters Thesis Research	Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899		5	S/U	By Arrangement					
MSBS 5015Q	The Host Response to Injury	Zoltan Spolarics spolaric@njms.rutgers.edu 973-972-0117 George Hasko haskoge@njms.rutgers.edu 973-972-8694	Open to Masters students only. Fundamental in Biomedical Sciences A or Permission from Course Director	2	N	Monday & Thursday	1/8	3/19	5:00 PM	6:50 PM	MSB Room B617B&C Requested

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MSBS 5120Q	Pharmaceutical Internships	Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899	Open to Masters & PhD students. Permission of the course director.	2 to 3	S/U	By Arrangement					
MSBS 5125Q	<u>Teacher Training</u> <u>Internship</u>	Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899	Open to Masters & PhD students. Permission of Dr. Lutz.	1 to 3	S/U			Ву	Arrangemei	nt	
MSBS 5126Q	Human Genetics and Genomics	David Kaback kaback@njms.rutgers.edu 973-972-8967	Masters students only. Fundamentals of Biomedical Sciences A or permission of instructor.	3	N	Monday & Thursday	1/4	5/3	9:45 AM	11:15 AM	MSB Room B617B&C Requested
MSBS 593AQ	Research in Biomedical Sciences	Stephen Garrett garretst@njms.rutgers.edu 973-972-4511	Masters students only. Use this course # for the first rotation.	2	N	By Arrangement					
MSBS 7000Q	Masters Thesis Continuation	Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899	Prior registration for MSBS 5000Q. Use Master's Thesis Continuation Form; Permission of Mentor & Dr. Lutz.	1 to 8	S/U	By Arrangement					
MSBS N5134	Hematopoietic Stem Cell Biology	Pranela Rameshwar rameshwa@njms.rutgers.edu 973-972-0625	Open to Masters & PhD students. Background in cell biology and stem cell biology suggested.	2	N	Monday	1/22	3/30	6:00 PM	7:50 PM	MSB Room B-610 Requested
MSBS N512Q	Topics in Cancer Stem Cell Biology	Pranela Rameshwar rameshwa@njms.rutgers.edu 973-972-0625	Open to Masters & PhD students.	2	N	Tuesday and Thursday	5/29	7/3	6:00 PM	7:50 PM	MSB Room B610 Requested.
NEUR N5040	Neurobiology of Disease	Kevin Beck beckkd@njms.rutgers.edu 973-676-1000 x3682 Stella Elkabes elkabest@njms.rutgers.edu 973-972-5163	Open to Masters & PhD students. Fundamentals of Neuroscience (NEUR 5200Q) or permission of course director.	3	N	Thursday	1/4	4/12	5:30 PM	8:20 PM	Cancer Center Room F1196 Requested
PATH 511BQ	<u>Immunology B</u>	Joan Durbin, MD/PhD durbinje@rutgers.edu	Successful completion of Immunology A (PATH 511A).	1	N	Monday & Wednesday	1/3	2/21	2:30 PM	3:50 PM	MSB Room B619B&C Confirmed

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During the online registration period, students may obtain email permission from the course director and forward the email to the Registrar at leeba@gsbs.rutgers.edu to be manually registered in any course highlighted in yellow. Add/Drop forms and signatures are required after online registration has ended.

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PATH 5130Q	DNA Repair in Health and Disease	Muriel Lambert mlambert@njms.rutgers.edu 973-972-4405	Class size limited to 26 students This course is for PhD and Masters students	1	N	Monday & Wednesday	1/8	2/26	4:00 PM	5:20 PM	MSB Room B609B&C
PHPY 5005Q	Fundamentals of Human Physiology	Krista Blackwell blackwkn@njms.rutgers.edu 973-972-2863	Open to Masters & PhD students. PhD students must have permission to enroll in the course.	3	N	Monday	1/8	4/23	2:00 PM	4:50 PM	MBS B552
PHPY 5085Q	Neuroendocrinology: Regulation of Physiological Processes	Vanessa Routh routhvh@njms.rutgers.edu 973-972-1489	Open to Masters & PhD students. IBMS (GSND 5200Q) or Fundamentals A (GSND N500A), or permission of course director. Physiological Principles (PHPY 5290) and/or Foundations in Neuroscience (NEUR 5110) suggested but not required.	2	N	Tuesday & Thursday	2/27	4/19	4:00 PM	5:50 PM	MSB Room H609 Confirmed By course Director MSB Room B610 requested for 3/15 and 4/19
PHPY N5030	Topics in Pharmacology	Lester Sultatos sultatle@njms.rutgers.edu 973- 972-6612	Open to Masters students only. Some Physiology recommended. See below for the required/recommended text for the course.	3	N	Thursday	1/18	5/17	6:00 PM	8:50 PM	MSB Room B556 Requested
PHPY N526Q	Principles of Toxicology II	Ramez Labib ramezlabib@yahoo.com Thomas Visalli tvis624@yahoo.com	Open to Masters & PhD students.	3	N	Tuesday	2/6	5/8	6:00 PM	8:50 PM	MSB Room B556 Requested

Last Update: 11-20-17 MB

Required/Recommended Text for courses

BIOC	Molecular Oncology	R.A. Weinberg. The Biology of Cancer, Garland Science, New York, NY, 2014						
5100Q	Wolecular Officology	Time Welliberg. The biology of earliest, durining selective, New York, NT, 2014						
СВММ	Regional Gross Anatomy: Back & Extremities	Moore Clinically Oriented Anatomy, 7th Edition,						
N594C	Regional Gross Anatomy. Buck & Extremities	by Keith L. Moore and Arthur Dalley, Lippincott Williams & Wilkins - older versions acceptable						
СВММ	Basic Histology	Netters Essential Histology and Junqueira's Basic Histology						
N5001	busic histology	Netters essential histology and Junqueira's basic histology						
CBNP	Regenerative Medicine	David L. Stocum entitled "Regenerative Biology and Medicine" 2nd Edition which is published by Academic Press.						
5037Q	negenerative intedicine	ISBN: 978-0-12-384860-4.						
CBNP	Introduction to Neurochamistry & Neuropharmacology	Basic Neurochemistry, Eighth Edition: Principles of Molecular, Cellular, and Medical Neurobiology						
5250Q	roduction to Neurochemistry & Neuropharmacology	Basic Neurochemistry, Eighth Euthon. Frinciples of Molecular, Cellular, and Medical Neurobiology						

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DENT 5025Q	Fundamentals o	f Dental Materials Science	Introduction to Dental Materials. Richard Van Noort. 4th Edition 2013, ISBN: 978-0723436591 Mosby Ltd.								
DENT 5085Q	Dental Biochemistry Lippincott's Illustrated Reviews in Biochemistry, 6th North American Ed. ISBN-13:978-1451175622. See				622. See Sylla	abus for more					
DENT 5300Q	Orai	l Microbiology	Medical Mid	robiology,	7th edition	n. Murray, et a	al. Mosby,	, Inc. ISBN	: 978-0-323	3-08692-9.	
DENT 5310Q	Ora	ıl Immunology	Recommended: Janeway's Immunology, 9 th edition, 2017. ISBN: 978-0-8153-4505-3, see syllabus for others								
GSND	Fundamentals of Bior	medical Science Part B: Cellular	Recommended Textbook(s) - Most of the lectures are based on chapters from different books. Essential Cell Biology 2nd edition by								
N500B		Biology	Alberts et al., 2004, Garland. Molecular Biology of the Cell by Alberts et al., Garland. Molecular Cell Biology, 5th edition, by Lodish et						dition, by Lodish et		
MSBS 5126Q	Human Ge	enetics and Genomics		Thomp	oson and Th	nompson Med	ical Genet	tics 8th Ed	dition		
MSBS N5134	Hematopoietic Stem	n Cell Biology and Dysfunction	Recommended: Clinical Hematolo	gy, Edited	by Neal S. '	oung, Stantor 01908-0		n and Kat	herine A. H	igh. Mosby El	sevier, ISBN 0-323-
MBGC 5002Q	Introduction to Genom	nics, Proteomics & Bioinformatics	Recommended Textbooks: Discovering Genomics, Proteomics & Bioinformatics (2nd Edition. 2006) Campbell A. M. & Heyer L. J. (Benjamin Cummings).								
PATH 511BQ	Im	nmunology B	Janeway's Immunobiology 8th Edition, Garland Scientific								
PHPY N5030	Topics	in Pharmacology	Recommended: Principles of Pharmacology, Golan, Tashjian, Armstrong & Armstrong, 3rd edition, Wolters Kluwer, 2012								