

# SPRING 2015 MASTERS, CERTIFICATE & NON-MATRICULATED COURSE SCHEDULE

## 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
<a href="#">BIOC 5100Q</a>	<a href="#">Molecular Oncology</a>	Michael A. Lea lea@njms.rutgers.edu 973-972-5345	Open to Masters & PhD students.	2	N	Monday	1/12	5/11	6:00 PM	8:00 PM	MSB E-609
<a href="#">BIOC 5125Q</a>	<a href="#">Viruses, Cells and Disease</a>	Sergei Kotenko kotenkse@njms.rutgers.edu 973-972-3134 Michael Mathews mathews@njms.rutgers.edu 973-972-4411	Open to Masters & PhD students. Approval by Course Directors for Masters students.	2	N	Tuesday & Thursday	1/6	2/24	5:00 PM	7:00 PM	MSB E-609
<a href="#">BIOC 5240Q</a>	<a href="#">Molecular Biology of the News</a>	Neerja Kaushik-Basu kaushik@njms.rutgers.edu 973-972-8653 Virendra N Pandey vnp22@njms.rutgers.edu 973-972-0660	Open to Masters & PhD students.	1	N	Monday & Wednesday	1/5	2/24	5:00 PM	6:00 PM	MSB E-609
<a href="#">CBMM 5020Q</a>	<a href="#">Developmental Biology &amp; Stem Cells</a>	Diego Fraidenaich fraidedi@njms.rutgers.edu 973-972-5525	Open to Masters & PhD students.	2	N	Tuesday & Friday	2/24	4/14	10:00 AM	12:00 PM	MSB G-609
CBMM N594C	Regional Gross Anatomy: Back & Extremities	Aleksey Tentler tentler.md@rutgers.edu 973-972-1687	Open to Masters & PhD students. Enrollment limit 20.	3	N	Thursday	2/12	5/21	3:00 PM	5:00 PM	TBD
CBNP 5030Q	Clinical Neuroimmunology	Amjad Ilyas ilyasaa@njms.rutgers.edu 973-972-3580	Open to Masters & PhD students. Fundamentals of Neuroscience (NEUR 5200Q) and Immunology A (PATH 511A) or Molecular Cellular Immunology (PATH 5210), or permission of course director.	2	N	Monday & Wednesday	2/23	4/4	5:30 PM	7:30 PM	MSB H-506

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Course #	Title	Course Director	Prerequisites	Credits	Grade Mode	Day(s)	Start Date	End Date	Start Time	End Time	Location
<a href="#">CBNP 5033Q</a>	<a href="#">Systems Neuroscience</a>	Kevin Pang pangke@njms.rutgers.edu 973-676-1000 x-1277		2	N	Tuesday & Wednesday	4/20	6/12	3:00 PM	5:00 PM	TBD
<a href="#">CBNP 5037Q</a>	<a href="#">Regenerative Medicine</a>	Elizabeth Moran moranel@njms.rutgers.edu 973-972-5854	Open to Masters & PhD students. Background in cell biology and development suggested.	2	N	Monday & Wednesday	4/20	6/10	1:00 PM	3:00 PM	Cancer Center F-1197
<a href="#">CBNP 5068Q</a>	<a href="#">Molecular Mechanisms of Diseases</a>	Yongkyu Park parky1@njms.rutgers.edu 973-972-2969	Open to Masters & PhD students. Background in Cell and Molecular Biology	3	N	Monday	2/2	5/18	6:00 PM	9:00 PM	MSB G-609
<a href="#">CBNP 5140Q</a>	<a href="#">Topics in Neuroimmunology</a>	Christine Rohowsky-Kochan rohowskm@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	4/20	6/12	5:00 PM	7:00 PM	MSB H-506
<a href="#">CBNP 5250Q</a>	<a href="#">Introduction to Neurochemistry &amp; Neuropharmacology</a>	Eldo Kuzhikandathil kuzhikev@njms.rutgers.edu 973-972-1157 Gusheng Wu gwu@njms.rutgers.edu 973-972-7988 Robert Ledeen ledeenro@njms.rutgers.edu 973-972-7989	Open to Masters & PhD students. Fundamentals A (GSND N500A), or IBMS (GSND 5200Q), or permission of course director. Limit of 50. At least 5 students need to enroll, for the course to be offered.	2	N	Tuesday & Thursday	4/21	6/11	5:30 PM	7:30 PM	MSB H-506
<a href="#">CBNP 5255Q</a>	<a href="#">Endocrinology of Growth &amp; Metabolism</a>	Nicholas Illsley illsleni@njms.rutgers.edu 551-996-8122	Open to Masters & PhD students. Limit of 24 Students.	1	N	Wednesday	4/22	6/10	4:00 PM	6:00 PM	MSB B-617 B+C *Note: Course will be held in MSB B-619 on 04/22

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<a href="#">CBNP 5260Q</a>	<a href="#">Molecular Basis of Synaptic Disorders</a>	Joseph McArdle mcardle@njms.rutgers.edu 973-972-4428	Open to Masters & PhD students.	1	N	Thursday	2/5	4/16	4:00 PM	6:00 PM	MSB H-609B *Note: Course will be held in MSB B-605 on 03/19 & 04/16
<a href="#">DENT 5025Q</a>	<a href="#">Fundamentals of Dental Materials Science</a>	Anil Ardeshta ardeshap@sdm.rutgers.edu 973-972-1892	Open to Masters & PhD students. Enrollment limit 50.	2	N	Friday	1/9	4/17	9:00 AM	11:00 AM	MSB B-619 B+C
<a href="#">DENT 5085Q</a>	<a href="#">Dental Biochemistry</a>	Suriender Kumar kumarsu@njms.rutgers.edu 973-972-4750	Open to Masters & PhD students. This is a Dental School course. Limited intake of 15 students only. Special permission required from: Vincent K. Tsiagbe 973-972-2612 tsiagbvk@sdm.rutgers.edu.	4	N	Monday (1/05-3/20) Wednesday (1/05-3/20) Wednesday (3/23-6/12) Friday (3/23-6/12)	1/5	6/19	10:00 AM 11:00 AM 10:00 AM 11:00 AM	12:00 PM 12:00 PM 12:00 PM 1:00 PM	Oral Health Pavilion B-961
DENT 5220Q	Methods in Microscopic Imaging	Kabilan Velliyagounder velliya@sdm.rutgers.edu 973-972-5051	Open to Masters & PhD students. Enrollment Limit 12.	2	N	Wednesday	1/7	4/22	1:00 PM	3:00 PM	Dental School B-857
<a href="#">DENT 5310Q</a>	<a href="#">Oral Immunology</a>	Vincent Tsiagbe tsiagbvk@sdm.rutgers.edu 973-972-2612	Open to Masters & PhD students. Limit of 75 students.	3	N	Monday (Wks 1 - 2) Wednesday (Wks 3 - 10) Wednesday (Wks 1 - 10) Friday (Wks 1 - 10)	1/5	3/20	9:00 AM 9:00 AM 10:00 AM 8:00 AM	9:50 AM 9:50 AM 10:50 AM 8:50 AM	Oral Health Pavilion B-963 *Note: Course will be held in MSB B-556 on 01/09
DENT 5910Q	Oral Biology Research Seminar	Scott Kachlany kachlasc@sdm.rutgers.edu 973-972-3057	Open to Masters & PhD students.	1	N	Friday	1/23	4/10	1:00 PM	2:00 PM	MSB C-600

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<a href="#">GSND 5008Q</a>	<a href="#">QA/QI Research in Clinical Settings</a>	Ping-Hsin Chen chenpi@njms.rutgers.edu 973-972-7351 Steven Keller skeller@njms.rutgers.edu 973-972-5036	Open to Masters & PhD students. Maximum of 25 students and Immunizations according to UMDNJ policy.	3	N	Thursday	1/15	4/23	Lecture 12:00 PM	Lecture 2:00 PM	MSB B-609 B+C *Student choose lab day at own convenience.
<a href="#">GSND 5113Q</a>	<a href="#">Gene Expression</a>	Emanuel Goldman egoldman@njms.rutgers.edu 973-972-4483 x24367	Enrollment limit 75.	3	N	Monday & Thursday	4/30	6/29	2:20 PM	5:00 PM	TBD
GSND 5300Q	Independent Study in Biomedical Sciences	BJ Wagner wagner@njms.rutgers.edu 973-972-5335		1 to 4	S	By Arrangement					
GSND 5305Q	Interprofessional Roles In Clinical Care	Nicholas M. Ponzio ponzio@njms.rutgers.edu 973-972-5238 Sandra Kaplan Kaplansa@shrp.rutgers.edu 973-972-2459	Permission of the Instructor. Enrollment limit of 25. <b>CANCELLED.</b>	±	S/U	Monday	1/5	3/23	4:00 PM	6:00 PM	
<a href="#">GSND 5320Q</a>	<a href="#">Pharmacology and Drug Marketing</a>	David Segarnick segarnjd@njms.rutgers.edu 973-996-2367	Open to Masters & PhD students. Principles of Pharmacology (PHPY 5020) or Fundamentals of Pharmacology (PHPY N5021) or Principles of Toxicology (PHPY N5225).	2	N	Monday	1/5	5/4	7:00 PM	9:00 PM	Cancer Center G-1196
<a href="#">GSND N500B</a>	<a href="#">Fundamentals of Biomedical Science Part B: Cellular Biology</a>	Diego Fraidenraich fraidedi@njms.rutgers.edu 973-972-5525	Open to Masters students only.	3	N	Wednesday	1/14	5/20	6:00 PM	9:00 PM	MSB B-552 <b>*Note: Class will be in MSB B-556 on 01/14 and 05/13 and in TBD on 03/11</b>

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Course #	Title	Course Director	Prerequisites	Credits	Grade Mode	Day(s)	Start Date	End Date	Start Time	End Time	Location
<a href="#">MBGC 5002Q</a>	<a href="#">Introduction to Genomics, Proteomics, and Bioinformatics</a>	Hong Li <a href="mailto:liho2@njms.rutgers.edu">liho2@njms.rutgers.edu</a> 973-972-1865	Open to Masters & PhD students. IBMS (GSND 5200Q) or Fundamentals A (GSND N500A) or permission of the course director.	2	N	Tuesday	2/24	4/16	2:00 PM	4:00 PM	F-1196
						Thursday					G-1196
<a href="#">MBGC 5030Q</a>	<a href="#">Protein Dynamics in Health &amp; Disease</a>	Carolyn Suzuki <a href="mailto:suzkick@njms.rutgers.edu">suzkick@njms.rutgers.edu</a> 973-972-1555	Open to Masters & PhD students. IBMS (GSND 5200Q), or MGM (GSND 5201Q), or GMM (GSND 5205Q), or permission of course director.	2	N	Tuesday & Thursday	4/21	6/11	5:00 PM	7:00 PM	MSB E-609
<a href="#">MICR 5231Q</a>	<a href="#">Molecular Virology</a>	Hua Zhu <a href="mailto:zhuhu@njms.rutgers.edu">zhuhu@njms.rutgers.edu</a> 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	5/28	6/29	5:30 PM	8:30 PM	TBD
<a href="#">MICR N5233</a>	<a href="#">Microbes and Infectious Disease</a>	Stephen Garrett <a href="mailto:garretst@njms.rutgers.edu">garretst@njms.rutgers.edu</a> 973-972-0323	Open to Masters & PhD students.	3	N	Tuesday	1/6	4/28	2:00 PM	5:00 PM	MSB B-610
MSBS 5000Q	Masters Thesis Research	BJ Wagner <a href="mailto:wagner@njms.rutgers.edu">wagner@njms.rutgers.edu</a> 973-972-5335		5	S/U	By Arrangement					
MSBS 5120Q	Pharmaceutical Internships	BJ Wagner <a href="mailto:wagner@njms.rutgers.edu">wagner@njms.rutgers.edu</a> 973-972-5335	Open to Masters & PhD students. Permission of the course director.	2 to 3	S/U	By Arrangement					
MSBS 5125Q	Teacher Training Internship	BJ Wagner <a href="mailto:wagner@njms.rutgers.edu">wagner@njms.rutgers.edu</a> 973-972-5335	Open to Masters & PhD students. Permission of Dr. Wagner.	1 to 3	S/U	By Arrangement					
<a href="#">MSBS 5145Q</a>	<a href="#">Molecular Genetics</a>	David Kaback <a href="mailto:kaback@njms.rutgers.edu">kaback@njms.rutgers.edu</a> 973-972-4483 ext. 28967	Open to Masters students only. Permissions of instructor plus B or better in undergraduate course in cell biology, genetics of biochemistry.	2	N	Monday, Wednesday, & Friday	1/7	2/20	9:30 AM	11:00 AM	MSB C-682

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MSBS 7000Q	Masters Thesis Continuation	BJ Wagner wagner@njms.rutgers.edu 973-972-5335	Prior registration for MSBS 5000Q. Use Master's Thesis Continuation Form; Permission of Mentor & Dr. Wagner.	1 to 8	S/U	By Arrangement					
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 593BQ	Research in Biomedical Sciences	Stephen Garrett garretst@njms.rutgers.edu 973-972-4511	Masters students only. Use this course # for the second rotation (special permission required)	2	S/U	By Arrangement					
<a href="#">MSBS N5134</a>	<a href="#">Hematopoietic Stem Cell Biology</a>	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	1/26	3/20	6:00 PM	8:00 PM	MSB B-619
<a href="#">MSBS N512Q</a>	<a href="#">Topics in Cancer Stem Cell Biology</a>	Pranela Rameshwar rameshwa@njms.rutgers.edu 973-972-0625	Open to Masters & PhD students.	2	N	Tuesday & Thursday	6/2	7/7	6:00 PM	8:00 PM	MSB B-610
NEUR 5010Q	Medical Neuroscience	Amjad Ilyas ilyasaa@njms.rutgers.edu 973-972-3580	Open to Masters & PhD students. Online registration not permitted. Contact Dr. Garrett for approval.	4	N	Monday through Friday	4/6	5/26	9:00 AM	3:00 PM	MSB B-556
<a href="#">NEUR N504Q</a>	<a href="#">Neurobiology of Disease</a>	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	1/8	4/16	5:30 PM	8:30 PM	Cancer Center G-1196
PATH 511BQ	Immunology B	Dr. Patricia Fitzgerald-Bocarsly bocarsly@rutgers.edu 973-972-5233	Successful completion of Immunology A (PATH 511A).	1	N	Monday & Wednesday	1/5	2/2	4:30 PM	6:00 PM	MSB C-555



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<a href="#">PHPY 5005Q</a>	<a href="#">Fundamentals of Human Physiology</a>	Krista Blackwell <a href="mailto:blackwkn@njms.rutgers.edu">blackwkn@njms.rutgers.edu</a> 973-972-2863	Open to Masters & PhD students. PhD students must have permission to enroll in the course.	3	N	Monday	1/12	4/27	2:00 PM	5:00 PM	MSB B-554
PHPY 5010Q	Medical Physiology	Krista Blackwell <a href="mailto:blackwkn@njms.rutgers.edu">blackwkn@njms.rutgers.edu</a> 973-972-2863	Open to Masters students only. Online registration not permitted. Contact Dr. Stephen Garrett for approval.	5	N	Monday through Friday	1/21	3/27	9:00 AM	2:00 PM	MSB B-556
PHPY 5085Q	Neuroendocrinology: Regulation of Physiological Processes	Vanessa Routh <a href="mailto:routhvh@njms.rutgers.edu">routhvh@njms.rutgers.edu</a> 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	3/10	4/23	4:30 PM	6:30 PM	MSB H-506 *Note: Class on 04/21 & 04/23 will be held in MSB B-605
PHPY 5280Q	Gastrointestinal Physiology and Nutrition	Ronaldo Ferraris <a href="mailto:ferraris@njms.rutgers.edu">ferraris@njms.rutgers.edu</a> 973-972-4519	Open to Masters & PhD students. Biochemistry and Physiology suggested.	1	N	Tuesday	4/28	6/9	4:00 PM	6:00 PM	MSB B-548
PHPY N5030	Topics in Pharmacology	Richard D. Howland <a href="mailto:howland@njms.rutgers.edu">howland@njms.rutgers.edu</a> 973-972-4388	Open to Masters students only. Some Physiology recommended.	3	N	Thursday	1/15	5/14	6:00 PM	9:00 PM	MSB B-552 *Note: Class will be in MSB B-556 on 05/14
PHPY N526Q	Principles of Toxicology II	Ramez Labib <a href="mailto:ramezlabib@yahoo.com">ramezlabib@yahoo.com</a> Thomas Visalli <a href="mailto:tvis624@yahoo.com">tvis624@yahoo.com</a>	Open to Masters & PhD students.	3	N	Tuesday	2/10	5/12	6:00 PM	9:00 PM	MSB B-556

Last Update: 01/23/15 BS

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### Required/Recommended Text for courses

BIOC 5100Q	<i>Molecular Oncology</i>		R.A. Weinberg. The Biology of Cancer, Garland Science, New York, NY, 2014
CBMM N594C	<i>Regional Gross Anatomy: Back &amp; Extremities</i>		Moore Clinically Oriented Anatomy, 7th Edition, by Keith L. Moore and Arthur Dalley, Lippincott Williams & Wilkins - older versions acceptable
CBNP 5037Q	<i>Regenerative Medicine</i>		David L. Stocum entitled "Regenerative Biology and Medicine" 2nd Edition which is published by Academic Press. ISBN: 978-0-12-384860-4.
CBNP 5250Q	<i>Introduction to Neurochemistry &amp; Neuropharmacology</i>		Basic Neurochemistry, Eighth Edition: Principles of Molecular, Cellular, and Medical Neurobiology
DENT 5085Q	<i>Dental Biochemistry</i>		Lippincott's Illustrated Reviews in Biochemistry, 6th North American Ed. ISBN-13:978-1451175622. See Syllabus for more
DENT 5310Q	<i>Oral Immunology</i>		<b>Recommended:</b> Janeway's Immunology, 8th edition, 2012. ISBN: 978-0-8153-4243-4, see syllabus for others
GSND 5320Q	<i>Pharmacology and Drug Marketing</i>		The Pharmacological Basis of Therapeutics (12th edition) available through the online library service
GSND N500B	<i>Fundamentals of Biomedical Science Part B: Cellular Biology</i>		<b>Recommended Textbook(s)</b> - Most of the lectures are based on chapters from different books. Essential Cell Biology 2nd edition by Alberts et al., 2004, Garland. Molecular Biology of the Cell by Alberts et al., Garland. Molecular Cell Biology, 5th edition, by Lodish
MSBS N5134	<i>Hematopoietic Stem Cell Biology and Dysfunction</i>		<b>Recommended:</b> Clinical Hematology, Edited by Neal S. Young, Stanton L. Gerson and Katherine A. High. Mosby Elsevier, ISBN 0-323-01908-0
MBGC 5002Q	<i>Introduction to Genomics, Proteomics &amp; Bioinformatics</i>		<b>Recommended Textbooks:</b> Discovering Genomics, Proteomics & Bioinformatics (2nd Edition. 2006) Campbell A. M. & Heyer L. J. (Benjamin Cummings).
PATH 511BQ	<i>Immunology B</i>		Janeway's Immunobiology 8th Edition, Garland Scientific
PHPY 5085Q	<i>Neuroendocrinology: Regulation of Physiological Processes</i>		Neuroendocrinology in Physiology and Medicine by P. Michael Conn and Marc Freeman
PHPY N5030	<i>Topics in Pharmacology</i>		<b>Recommended:</b> Principles of Pharmacology, Golan, Tashjian, Armstrong & Armstrong, 3rd edition, Wolters Kluwer, 2012