

# FALL 2014 MASTERS, CERTIFICATE & NON-MATRICULATED COURSE SCHEDULE

## Graduate School of Biomedical Sciences

Consult (<http://njms.rutgers.edu/gsbs/index.cfm>) or Respective Instructors for up to date information.

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Course #	Title	Course Director	Prerequisites	Credits	Grade Mode	Days offered	Start Date	End Date	Time	Location
BIOC 5285Q	Enzyme Inhibitor in Drug Discovery	Dr. Suriender Kumar kumarsu@njms.rutgers.edu 973-972-4750	Open to Masters and PhD students. IBMS. <b>COURSE CANCELLED.</b>	2	N	Monday and Wednesday	09/08/14	12/03/14	5.00 PM - 6.30 PM	MSB E-609B
<u>CBMM N5001</u>	<u>Basic Histology</u>	Dr. Grace Pinhal-Enfield pinhalgr@njms.rutgers.edu 732-742-8656	Enrollment limit 30. Open to Masters and PhD students. Masters students need permission of Course Director via email. PhD needs permission of Program/Track Director. (See below for required text).	3	N	Thursday	08/28/14	12/11/14	6.00 PM - 9.00 PM	Lecture: MSBC-600 Lab: MSB B-516/542
CBMM 5002Q	Practical Approaches for Studying Protein Function	Dr. Maha Abdellatif abdellma@njms.rutgers.edu 973-972-1254 Dr. Danish Sayed sayeddh@njms.rutgers.edu 973-972-1254	Graduate Molecular Biology or equivalent.	2	N	Wednesday	09/10/14	12/03/14	2.00 PM - 4.00 PM	MSB G-609B
<u>CBMM 5350Q</u>	<u>Molecular Medicine of the Heart</u>	Dr. Gopal Babu babugo@njms.rutgers.edu 973-972-5376	Permission of Course Director. Open to Masters and PhD students. (See below for required text).	3	N	Tuesday	09/09/14	12/16/14	9:30 AM - 12:30 PM	MSB B-556 <i>*Note: Class on 11/04/14 and 11/18/14 in MSB B-610. Class on 11/11 in MSB B-552</i>
CBNP 5032Q	Behavioral and Cognitive Neuroscience	Dr. Kevin Beck beckkd@njms.rutgers.edu 973-676-1000 x3682 Dr. Kevin Pang Kevin.Pang@va.gov 973 676 1000 x1277		2	N	Tuesday & Wednesday	10/20/2014	12/19/2014	3:00 PM - 5:00 PM	MSB H-609B
DENT 5065Q	Dental Physiology	Dr. Marguerite Stout stout@njms.rutgers.edu 973-972-4132	Enrollment limit 15. For undergraduate prerequisite information and enrollment approval, contact Dr. Vincent Tsiagbe at	5	N	Monday Tuesday	08/25/14	12/12/14	3:00 PM - 5:00 PM 1:00 PM - 4:00 PM	Oral Health Pavilion B-961

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			<a href="mailto:tsiagbvksdm.rutgers.edu">tsiagbvksdm.rutgers.edu</a> or 973-972-2612. (See below for required text).			Thursday			1:00 PM - 4:00 PM	
DENT 5145Q	Introduction to Structural Biology	Dr. N. Ramasubbu ramasun1@sdm.rutgers.edu 973-972-0704	Open to Masters and PhD students.	1	N	Wednesday	08/27/14	12/17/14	10:00 AM - 11:00 AM	Dental School B-857
DENT 5220Q	Methods in Microscopic Imaging	Dr. Kabilan Velliyagounder velliyka@sdm.rutgers.edu 973-972-5051	Enrollment Limit 12. Open to Masters and PhD students.	2	N	Wednesday	09/03/14	12/17/14	1:00 PM - 3:00 PM	MSB C-684
DENT 5300Q	Oral Microbiology	Dr. Scott Kachlany kachlasc@sdm.rutgers.edu 973-972-3057	Enrollment limit 60. Open to both Masters and PhD students. (See below for required text).	3	N	Monday Wednesday	08/25/14	11/26/14	1:00 PM - 3:00 PM 9:00 AM - 11:00 AM	Oral Health Pavilion B-961 <i>*Note: Class on 08/25/14 in B-965</i>
DENT 7106Q	Dental Histology	Dr. Joseph Rinaggio rinaggio@sdm.rutgers.edu 973-972-8909	Enrollment limit 10. For approval, contact Dr. Vincent Tsiagbe at <a href="mailto:tsiagbvksdm.rutgers.edu">tsiagbvksdm.rutgers.edu</a> or 973-972-2612. (See below for required text).	5	N	Monday Wednesday Friday	08/25/14	12/14/14	10:00 AM - 12:00 PM 11:00 AM - 12:50 PM 1:00 PM - 3:00 PM	Oral Health Pavilion B-961
GSND 5113Q	Gene Expression	Dr. Emanuel Goldman egoldman@njms.rutgers.edu 973-972-4483 X24367	Open to Masters and PhD students.	3	N	Tuesday	09/02/14	12/19/14	5:00 PM - 7:40 PM	ICPH Auditorium
GSND 5201Q	Molecular & Genetic Medicine "MGM"	Dr. Melissa Rogers rogersm@njms.rutgers.edu 973-972-2984	Enrollment limit 30 . For approval, contact Dr. Stephen Garrett at <a href="mailto:garretst@njms.rutgers.edu">garretst@njms.rutgers.edu</a> . (See below for required text).	6	N	Monday, Wednesday, Thursday and Friday	08/11/14	10/02/14	9:30 AM - 4:00 PM	MSB B-556
GSND 5205Q	Genes & Molecules in Medicine	Dr. J. Patrick O'Connor oconnojp@njms.rutgers.edu 973-972-5011	Enrollment limit 25 Permission of Course Director. (See below for required text).	6	N	Monday, Wednesday, Thursday and Friday	10/20/14	12/19/14	9:30 AM - 4:00 PM	MSB B-609 B+C <i>*Note: Classes on 10/20 &amp; 12/17 is in MSB B-540 A+B. Classes on 10/22 &amp; 10/29 is in MSB B-540 C+D. Class on 11/21 is in MSB B-617 B+C. Class on 12/01 is in MSB B-605.</i>

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Course #	Title	Course Director	Prerequisites	Credits	Grade Mode	Days offered	Start Date	End Date	Time	Location
GSND 5207Q	Infection & Host Response	Dr. Stephen Garrett garretst@njms.rutgers.edu 973-972-0323	Open to Masters students only. For approval, contact Dr. Stephen Garrett at garretst@njms.rutgers.edu. (See below for required text).	6	N	Monday, Tuesday, Wednesday, Thursday, and Friday	08/11/14	10/10/14	9:00 AM – 3:00 PM	MSB B-552
GSND 5300Q	Independent Study in Biomedical Sciences	Dr. BJ Wagner wagner@njms.rutgers.edu 973-972-5335	Permission of Course Director	1-4	S/U	By Arrangement				
<u>GSND N500A</u>	<u>Fundamentals of Biomedical Sciences (Part A)</u>	Dr. Michael Lea lea@njms.rutgers.edu 973-972-5345 Dr. Richard Howells howells@njms.rutgers.edu 973-972-5652	Open to Masters students only. (See below for alternative suggested text).	3	N	Tuesday	09/09/14	12/09/14	6.00 PM - 9:00 PM	MSB B-556
<u>MBGC 5075Q</u>	<u>Cell Death</u>	Dr. Raymond Birge birgera@njms.rutgers.edu 973-972-4497	Open to Masters and PhD students. (See below for required text).	2	N	Monday and Thursday	10/20/14	12/19/14	6.00 PM - 8.00 PM	MSB E-609B
MSBS 5000Q	Masters Thesis Research	Dr. BJ Wagner wagner@njms.rutgers.edu 973-972-5335	Masters students completing Thesis	5	S/U	By Arrangement				
MSBS 5120Q	Pharmaceutical Internship	Dr. BJ Wagner wagner@njms.rutgers.edu 973-972-5335	Completion of 15 credits. Permission of Course Director.	2-3	S/U	By Arrangement				
MSBS 5125Q	Teacher Training Internship	Dr. BJ Wagner wagner@njms.rutgers.edu 973-972-5335	Permission of Course Director	1-3	S/U	By Arrangement				
<u>MSBS 5130Q</u>	<u>Stem Cell Biology &amp; Applications in Molecular Medicine</u>	Dr. Pranela Rameshwar rameshwa@njms.rutgers.edu 973-972-4913	Open to Masters and PhD students.	3	N	Monday	08/25/14	12/01/14	6.00 PM - 9.00 PM	MSB B-610

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<u>MSBS</u> <u>520AQ</u>	<u>Advanced Stem Cell Seminar</u>	Dr. Pranela Rameshwar rameshwa@njms.rutgers.edu 973-972-4913	<b>MSBS 5130Q or concurrent registration. Open to Masters and PhD students.</b>	2	N	Wednesday	08/27/14	11/19/14	6.00 PM - 8.00 PM	MSB B-610
MSBS 5910Q	Seminar in Biomedical Sciences	Dr. Raymond Birge birgera@njms.rutgers.edu 973-972-4497	<b>Open to Masters students only.</b>	1	N	Tuesday	09/02/14	12/09/14	4.30 PM - 5.45 PM	MSB B-610
MSBS 593AQ	Research in Biomedical Sciences	Dr. Stephen Garrett garretst@njms.rutgers.edu 973-972-0323	<b>Use this course # for the first rotation.</b>	2	N	By Arrangement				
MSBS 593BQ	Research in Biomedical Sciences	Dr. Stephen Garrett garretst@njms.rutgers.edu 973-972-0323	<b>Use this course # for the second rotation. Permission of the Course Director .</b>	2	S/U	By Arrangement				
MSBS 7000Q	Masters Thesis Continuation	Dr. BJ Wagner wagner@njms.rutgers.edu 973-972-5335	<b>Prior registration for MSBS 5000Q. Thesis not yet completed. Permission of Course Director.</b>	1-8	S/U	By Arrangement				
<u>NEUR</u> <u>5200Q</u>	<u>Fundamentals of Neuroscience</u>	Dr. Steve Levison levisosw@njms.rutgers.edu 973-972-5162 Dr. Kevin Pang Kevin.Pang@va.gov 973 676 1000 x1277	<b>Open to Masters and PhD students. (See below for required text).</b>	3	N	Thursday	08/28/14	12/11/14	5.00 PM - 8.00 PM	MSB B-556 <i>*Note: Course in CC G-1196 on 10/30</i>
PATH 5010Q	General Pathology	Dr. George Studzinski studzins@njms.rutgers.edu 973-972-5869	<b>Knowledge of anatomy and biochemistry to be determined by Course Director or designee. Enrollment limit 30. Open to Masters and PhD students. (See below for required text).</b>	2	N	Monday, Wednesday, and Friday	09/03/14	10/17/14	12.00 PM - 2.00 PM	MSB C-555
<u>PATH</u> <u>5100Q</u>	<u>Cellular Pathology</u>	Dr. Muriel Lambert mlambert@njms.rutgers.edu 973-972-4405	<b>Open to Masters and PhD students. (See below for required text).</b>	2	N	Monday Thursday	10/20/14	12/18/14	4.00 PM - 6.00 PM	MSB C-600 MSB B-554

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<u>PATH</u> <u>511AQ</u>	<u>Immunology A</u>	Dr. Patricia Fitzgerald-Bocarsly bocarsly@rutgers.edu 973-972-5233	Open to Masters students only. (See below for required text).	2	N	Monday and Wednesday	10/20/14	12/19/14	4.30 PM - 6.00 PM	MSB B-554
<u>PATH</u> <u>N5209</u>	<u>The Business of Science: Drug Development - From Molecules to Medicines</u>	Dr. Nicholas Ponzio ponzio@njms.rutgers.edu 973-972-5238	Open to Masters and PhD. Introductory level courses in Biology and Chemistry. Enrollment limit of 20. Permission of Course Director via e-mail.	3	N	Wednesday	09/03/14	12/17/14	6:00 PM - 9:00 PM	MSB C-555
<u>PHPY</u> <u>N5021</u>	<u>Fundamentals of Pharmacology</u>	Dr. Martha Nowycky nowyckmc@njms.rutgers.edu 973-972-4391	Open to Masters and PhD students.	3	N	Monday	09/08/14	12/08/14	6.00 PM - 9.00 PM	MSB B-552
<u>PHPY</u> <u>N5225</u>	<u>Principles of Toxicology</u>	Dr. Ramez Labib ramez.labib@avon.com Dr. Thomas Visalli Thomas_Visalli@eisai.com	Open to Masters and PhD students.	3	N	Thursday	09/11/14	12/11/14	6.00 PM - 9.00 PM	MSB B-552

**COURSES HIGHLIGHTED IN YELLOW ARE NOT AVAILABLE FOR ONLINE REGISTRATION.**

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](mailto:leeba@gsbs.rutgers.edu) to be manually registered in any course highlighted in yellow. Add/Drop forms are required after online registration has ended.

Last Update:09/04/14 BS

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### Required Text

CBMM 5350Q	Molecular Medicine of the Heart	Physiology of the heart (fifth edition) by Arnold M. Katz
CBMM N5001	Basic Histology	Ovalle WK and Nahirney PC. (2013) Netter's Essential Histology, 2nd edition, Saunders, Elsevier. ISBN 978-1455706310 NOTE: 1st or 2nd edition can be used
DENT 5065Q	Dental Physiology	Text: Levy, Koppen & Stanten. Bern & Levy, Principles of Physiology 4th ED, Pub by Elsevier, Mosby
DENT 5300Q	Oral Microbiology	Medical Microbiology, 6th edition. Murray, et al. Mosby, Inc. ISBN: 978-0-323-05470-6
DENT 7106Q	Dental Histology	1. Junquiera et al. Basic Histology, 13th Ed., Lange/McGraw-Hill, 2013 (ISBN 9780071780339) 2. Kerr. Functional Histology 2e., Mosby, 2009 (ISBN 978-0-7295-3837-4)
GSND 5201Q	Molecular & Genetic Medicine "MGM"	<u>Suggested Text:</u> Principles of Medical Biochemistry by Meisenberg and Simmons (3rd edition, published by Elsevier) Thompson and Thompson, Genetics in Medicine by R.L. Nussbaum et al. (7th Edition, 2007, published by Saunders)
GSND 5205Q	Genes & Molecules in Medicine	Principles of Medical Biochemistry by Meisenberg & Simmons Thompson & Thompson, Genetics in Medicine by Nussbaum, et al. <b>[both recommended, not required]</b>
GSND N500A	Fundamentals of Biomedical Sciences	<b>Suggested Alternative Texts:</b> Lippincott's Illustrated Reviews: Biochemistry, 6th edition, 2014, by Harvey and Ferrier, published by Lippincott Williams and Wilkins, Philadelphia
MBGC 5075Q	Cell Death	MEANS TO AN END – Apoptosis and Other Cell Death Mechanisms, Douglas Green, 2010, Cold Spring Harbor Laboratory Press
NEUR 5200Q	Fundamentals of Neuroscience	4th Edition of Neuroscience, Ed. by Purves et al.
PATH 5010Q	General Pathology	<b>Suggested Reading:</b> "Wheater's Functional Histology, 5th edition". <b>Suggested Reading:</b> "Robbins and Cotran Pathologic Basis of Disease" Eight Edition, Kumar, Abbas, Fausto & Aster Saunders Elsevier, 2010.
PATH 5100Q	Cellular Pathology	Molecular Biology of the Cell – Alberts et al eds
PATH 511AQ	Immunology A	Janeway's Immunobiology 8 <sup>th</sup> Edition, Garland Scientific