

# FALL 2014 PhD 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 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement				
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
BIOC 5290Q	Critical Readings of the Literature	Dr. Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899	Approval and confirmation by Course Director. Open to PhD students only.	3	N	Monday and Wednesday	09/03/14	12/17/14	1.00 PM - 2.30 PM	MSB E-609B
BMEG 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement				
BMEG 593AQ, BQ, CQ*	Biomedical Engineering Research	Faculty		2	N	By Arrangement				
BMEG 5930Q*	Biomedical Engineering Research	Faculty		1 to 10	S/U	By Arrangement				
CBMM 5000Q	CBMM Thesis Research	Faculty	Open to PhD students only.	5 PT 10 FT	S/U	By Arrangement				
<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: MSB C-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 *Note: Class on 11/04/14 & 11/18/14 in MSB B-610. Class on 11/11 in MSB B-552

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CBNP 5000Q	CBNP Thesis Research	Faculty	Open to PhD students only.	5 PT 10 FT	S/U	By Arrangement				
CBNP 5020Q	Principles of Pharmacology	Dr. Lester Sultatos sultatl@njms.rutgers.edu 973-972-6612	Open to PhD students only.	2	N	Wed/Fri	09/03/14	10/24/14	1.00 PM - 3.00 PM	MSB H-609B
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	10/20/14	12/19/14	3:00 PM - 5:00 PM	MSB H-609B
CBNP 5155Q	Critical Readings in CBNP	Dr. Eldo Kuzhikandathil kuzhikev@njms.rutgers.edu 973-972-1157 Dr. Martha Nowycky nowyckmc@njms.rutgers.edu 973-972-4391	Open to PhD students only.	1	N	Tuesday	09/09/14	12/09/14	1.00 PM - 3.00 PM	MSB H-609B
CBNP 5165Q	Foundations of Integrative Human Physiology	Dr. Jorge Serrador jorge.serrador@rutgers.edu 973-676-1000 x12805 Dr. Michael Falvo michael.falvo@va.gov 973-676-1000 x12423	Open to PhD students only. Physiology course or permission of course director.	2	N	Monday	10/20/14	12/17/14	3:00 PM - 5:00 PM	Cancer Center H-1196
						Wednesday	10/20/14	12/17/14	1.00 PM - 3.00 PM	
CBNP 593AQ, BQ, CQ*	Lab Rotations in CBNP	Dr. Christine Rohowsky-Kochan rohowskm@njms.rutgers.edu 973-972-7394	Use for first 3 rotations.	2	N	By Arrangement				
CBNP 5930Q*	Lab Rotations in CBNP	Dr. Christine Rohowsky-Kochan rohowskm@njms.rutgers.edu 973-972-7394	Use this course # for all subsequent rotations.	1 to 10	S/U	By Arrangement				
DENT 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement				

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<u>DENT</u> <u>51450</u>	<u>Introduction to Structural Biology</u>	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 velliya@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
<u>DENT</u> <u>5300Q</u>	<u>Oral Microbiology</u>	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>
<u>GSND</u> <u>0596Q</u>	<u>Professional Skills I</u>	Dr. Teresa Wood woodte@njms.rutgers.edu 973-972-6529 Dr. Steve Levison levisosw@njms.rutgers.edu 973-972-5162	Enrollment limit 42. Preference given to 2nd year PhD. All others, permission of Course Directors.	1	S/U	Tuesday and Thursday	08/26/14	10/16/14	5.00 PM - 6.30 PM	Cancer Center G-1196
<u>GSND</u> <u>5113Q</u>	<u>Gene Expression</u>	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
<u>GSND</u> <u>5135Q</u> <u>Sec. 1</u>	<u>Research Design &amp; Statistics</u>	Dr. Catherine Myers catherine.myers2@va.gov cemyers@njms.rutgers.edu 973-676-1000 x1810	Open to PhD students only. Preference given to CBNP & BME students. Others by permission of instructor only. Enrollment limit 20. (See below for required text and software.)	2	N	Monday and Wednesday	10/20/14	12/17/14	9.00 AM - 11.00 AM	MSB B-540 E+F
GSND 5135Q Sec. 2	Research Design & Statistics	Heather Franklin franklhr@sph.rutgers.edu	Open to PhD students only. Enrollment limit 20. (See below for required text)	2	N	Monday and Wednesday	10/20/14	12/17/14	9.00 AM - 11.00 AM	MSB B-619 B+C
<u>GSND</u> <u>5200Q</u>	<u>Introduction to Biomedical Sciences (CORE)</u>	Dr. Frederick Coffman coffmafd@njms.rutgers.edu 973-972-2861		5	N	Monday, Wednesday, and Friday	08/27/14	12/12/14	10.00 AM - 12.00 PM	MSB B-554 <i>* Note: Class from 11/24 - 12/12 location TBA</i>

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GSND 5910Q	MD/PhD Seminar/Journal Club	Dr. Padmini Salgame salgampa@njms.rutgers.edu 973-972-8647	Restricted to students in MD/PhD program.	1	S/U	By Arrangement				
MBGC 5000Q	MBGC Thesis Research	Faculty	Open to PhD students only.	5 PT 10 FT	S/U	By Arrangement				
<u>MBGC 5070Q</u>	<u>Advances in Nucleic Acids: RNA</u>	Dr. Mukund Modak modak@njms.rutgers.edu 973-972-5515	Open to PhD students only. IBMS.	2	N	Monday and Wednesday	10/22/14	12/08/14	1.15 PM - 3.00 PM	MSB E-675
<u>MBGC 5071Q</u>	<u>Advances in Nucleic Acids: DNA</u>	Dr. Mukund Modak modak@njms.rutgers.edu 973-972-5515	Open to PhD students only. IBMS.	2	N	Monday and Wednesday	09/03/14	10/20/14	1.15 PM - 3.00 PM	MSB E-675
<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
MBGC 5910Q	MBGC Seminar Series	Dr. Muriel Lambert mlambert@njms.rutgers.edu 973-972-4405	Required course for MBGC students. Must register in fall AND spring.	0.5	S/U	Thursday	Sep-14	Dec-14	12.00 PM - 1.00 PM	TBD
MBGC 593AQ, BQ, CQ*	Lab Rotations in MBGC	Dr. Muriel Lambert mlambert@njms.rutgers.edu 973-972-4405	Use for first 3 rotations.	2	N	By Arrangement				
MBGC 5930Q*	Lab Rotations in MBGC	Dr. Muriel Lambert mlambert@njms.rutgers.edu 973-972-4405	Use this course # for all subsequent rotations.	1 to 10	S/U	By Arrangement				
MICR 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement				
MPHD 5000Q	MD/PhD Thesis Research	Dr. Padmini Salgame salgampa@njms.rutgers.edu 973-972-8647	Restricted to students in MD/PhD program.	5 PT 10 FT	S/U	By Arrangement				
MPHD 5930Q	MD/PhD Laboratory Research	Dr. Padmini Salgame salgampa@njms.rutgers.edu 973-972-8647	Restricted to students in MD/PhD program.	1 - 10	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				

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<a href="#">MSBS 5130Q</a>	<a href="#">Stem Cell Biology &amp; Applications in Molecular Medicine</a>	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
<a href="#">MSBS 520AQ</a>	<a href="#">Advanced Stem Cell Seminar</a>	Dr. Pranela Rameshwar rameshwa@njms.rutgers.edu 973-972-4913	MSBS 5130Q or concurrent registration. Open to Masters and PhD students.	2	N	Wednesday	08/27/14	11/19/14	6.00 PM - 8.00 PM	MSB B-610
NEUR 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement				
<a href="#">NEUR 5200Q</a>	<a href="#">Fundamentals of Neuroscience</a>	Dr. Steve Levison levisow@njms.rutgers.edu 973-972-5162 Dr. Kevin Pang Kevin.Pang@va.gov 973 676 1000 x1277	Open to Masters and PhD students. (See below for required text).	3	N	Thursday	08/28/14	12/11/14	5.00 PM - 8.00 PM	MSB B-556 <i>*Note: Class in CC G-1196 on 10/30</i>
PATH 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement				
PATH 5010Q	General Pathology	Dr. George Studzinski studzins@njms.rutgers.edu 973-972-5869	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).	2	N	Monday, Wednesday, and Friday	09/03/14	10/17/14	12.00 PM - 2.00 PM	MSB C-555
<a href="#">PATH 5100Q</a>	<a href="#">Cellular Pathology</a>	Dr. Muriel Lambert mlambert@njms.rutgers.edu 973-972-4405	Open to Masters and PhD students. (See below for required text).	2	N	Monday Thursday	10/20/14	12/18/14	4.00 PM - 6.00 PM	MSB C-600 MSB B-554
<a href="#">PATH 5210Q</a>	<a href="#">Molecular and Cellular Immunology</a>	Dr. Patricia Fitzgerald-Bocarsly bocarsly@rutgers.edu 973-972-5233	Open to PhD students only. (See below for required text).	3	N	Monday and Wednesday	10/20/14	02/02/15	4.30 PM - 6.00 PM	MSB B-554
PATH 5910Q	Pathology Seminar	Dr. Raphael Mannino manninrj@njms.rutgers.edu 973-715-3924		1	N	By Arrangement				

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PATH N5209	<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
PHMS 5000Q	Biomedical Science Thesis Research	Faculty	Completion of course requirements.	5 to 10	S/U	By Arrangement				
PHPY N5021	<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
PHPY N5225	<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
PHPY 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement				
TIII 5000Q	III Thesis Research	Faculty	Open to PhD students only.	5 PT 10 FT	S/U	By Arrangement				
TIII 5155Q	Critical Readings in I <sup>3</sup> A	Dr. Nikhat Parveen parveeni@njms.rutgers.edu 973-972-5218	PhD only with priority to 1st year I3 students.	0.5	N	Tuesday	08/26/14	10/14/14	9.30 AM - 11.00 AM	ICPH E-220R
TIII 5156Q	Critical Readings in I <sup>3</sup> B	Dr. Amariliz Rivera riveraam@njms.rutgers.edu 973-972-2568	PhD only with priority to 1st year I3 students.	0.5	N	Tuesday	10/21/14	12/16/14	9.30 AM - 11.00 AM	MSB B-619 <i>* Note: Course in MSB B-610 on 11/11</i>
TIII 5157Q	Critical Readings in Autoimmunity	Dr. Betsy Barnes barnesbe@njms.rutgers.edu 973-972-3319	IBMS & Molecular and Cellular Immunology.	0.5	N	Tuesday	10/21/14	12/16/14	10.00 AM - 11.00 AM	Cancer Center H-1196
TIII 5620Q	Classic & 21st Century Pathogens	Dr. David M. Lukac lukacdm@njms.rutgers.edu 973-972-4483 X20907	Open to PhD students only.	2	N	Monday, Wednesday, and Friday	08/27/14	10/17/14	1.30 PM - 3.00 PM	ICPH E-220R <i>*Note: Course in ICPH Auditorium on 08/25, 09/15, 10/06, and 10/10</i>

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TIII 593AQ, BQ, CQ*	Lab Rotations in I <sup>3</sup>	Dr. Amariliz Rivera riveraam@njms.rutgers.edu 973-972-2568	Use for the first 3 rotations.	2	N					By Arrangement
TIII 5930Q*	Lab Rotations in I <sup>3</sup>	Dr. Amariliz Rivera riveraam@njms.rutgers.edu 973-972-2568	Use this course # for all subsequent rotations.	1 to 10	S/U					By Arrangement
* First three rotations – register for A, B, C respectively – all subsequent rotations register for 1 to 10 cr S/U										
<b>COURSES HIGHLIGHTED IN YELLOW ARE NOT AVAILABLE FOR ONLINE REGISTRATION.</b>										
During the online registration period, students may obtain email permission from the course director and forward the email to the Registrar at <a href="mailto:leeba@gsbs.rutgers.edu">leeba@gsbs.rutgers.edu</a> to be manually registered in any course highlighted in yellow. Add/Drop forms are required after online registration has ended.										
Last Update:08/28/14 BS										

### 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 5300Q	Oral Microbiology	Medical Microbiology, 6th edition. Murray, et al. Mosby, Inc. ISBN: 978-0-323-05470-6
GSND 5135	Experimental Design & Statistics for Biomedical Sciences B	1.Gravetter & Wallnau, Statistics for the Behavioral Sciences, 9th edition (note new edition) 2. SPSS software (available in MSB Academic Computing lab, or for purchase see <a href="http://www.spss.com/statistics">www.spss.com/statistics</a> for links to student discounts on GradPak Standard – can install on 2 computers, so 2 students can share one license).
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.

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PATH 5100Q	Cellular Pathology	Molecular Biology of the Cell - Alberts etal eds								
PATH 5210Q	Molecular and Cellular Immunology	Janeway's Immunobiology 8 <sup>th</sup> Edition, Garland Scientific								