

FALL 2019 PhD COURSE SCHEDULE

School of Graduate Studies - Health Science Campus, Newark

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

Please note that it is the responsibility of the student to contact the respective instructor for the correct time, dates and room assignment information. Instructor e-mail addresses and phone numbers are provided for your convenience.

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.	4.5 PT 9 FT	S/U	By Arrangement				
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 & Wednesday	09/04/19	12/18/19	1:00 PM - 2:30 PM	Monday MSB Room G609B Wednesday ICPH E310L
BMEG 5000Q	Thesis Research	Faculty	Completion of course requirements.	4.5 PT 9 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 9	S/U	By Arrangement				
CBMM 5000Q	CBMM Thesis Research	Faculty	Open to PhD students only.	4.5 PT 9 FT	S/U	By Arrangement				
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 973-972-5243	GSND N500A (Fundamentals of Biomedical Sciences) or GSND 5200Q (Introduction to Biomedical Sciences)	2	N	Wednesday	09/04/19	11/27/19	2:00 PM - 3:50 PM	MSB Room G609B (provided by course director)
<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	09/03/19	12/10/19	9:30 AM - 12:20 PM	MSB Room B619 Confirmed
CBNP 5000Q	CBNP Thesis Research	Faculty	Open to PhD students only.	4.5 PT 9 FT	S/U	By Arrangement				
<u>CBNP 5032Q</u>	<u>Behavioral and Cognitive Neuroscience</u>	Dr. Kevin Beck beckkd@njms.rutgers.edu 973-676-1000 x3682 Dr. Kevin Pang Kevin.Pang@va.gov 973 676 1000 x1277	Previous course in Neuroscience.	2	N	Tuesday & Wednesday	08/27/19	10/16/19	5:00 PM - 6:50 PM	Cancer Center Room H1196

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CBNP 5150Q	Cell/Development Neuroscience	Dr. Terri Wood woodte@njms.rutgers.edu 973-972-6529	Open to Masters and PhD Students	2	N	Tuesday, Wednesday & Friday	10/21/19	12/24/19	1:00 PM - 2:30 PM	Cancer Center Room H1196 (Provided by Course Director)
CBNP 5155Q	Critical Readings in CBNP	Dr. Dominic Del Re delredo@njms.rutgers.edu 973-972-1658	Open to PhD students only.	1	N	Tuesday	09/03/19	12/10/19	9:30 AM - 11:20 AM	MSB Room G609B (Provided by Course Director)
CBNP 5165Q	Foundations of Integrative Human Physiology	Dr. Jorge Serrador jorge.serrador@rutgers.edu 973-676-1000 x28057 Dr. Michael Falvo michael.falvo@va.gov 973-676-1000 x12423	Open to Masters and PhD students. Physiology course or permission of course director.	2	N	Monday & Wednesday	10/21/19	12/18/19	5:00 PM - 6:50 PM	Cancer Center Room H1196
CBNP 593AQ, BQ, CQ*	Lab Rotations in CBNP	Dr. Joshua Berlin berlinjr@njms.rutgers.edu 973-972-1618 Dr. Joseph McArdle mcardle@njms.rutgers.edu 973-972-4428	Use for first 3 rotations.	2	N	By Arrangement				
CBNP 5930Q*	Lab Rotations in CBNP	Dr. Joshua Berlin berlinjr@njms.rutgers.edu 973-972-1618 Dr. Joseph McArdle mcardle@njms.rutgers.edu 973-972-4429	Use this course # for all subsequent rotations.	1 to 9	S/U	By Arrangement				
DENT 5000Q	Thesis Research	Faculty	Completion of course requirements.	4.5 PT 9 FT	S/U	By Arrangement				
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	09/04/19	12/18/19	1:00 PM - 2:50 PM	Dental School Room C987 (Provided by Course Director)

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<u>GSND 05960</u>	<u>Professional Skills I</u>	Dr. Steve Levison levisow@njms.rutgers.edu 973-972-5162	Enrollment Limit 42. Online registration allowed for G2 students, all others require instructor permission.	1	S/U	Monday & Wednesday	08/29/19	10/19/19	4:00 PM - 5:20 PM	Cancer Center Room G1196 (Provided by Course Director)
<u>GSND 50060</u>	<u>Grantsmanship Skills</u>	Dr. Martha Nowycky nowyckmc@njms.rutgers.edu 973-972-4391 Dr. Teresa Wood woodte@njms.rutgers.edu 973-972-6529	Open to PhD students only	2	S/U	Tuesday	10/22/19	02/25/20	3:00 PM - 4:50 PM	MSB Room B619
<u>GSND 51130</u>	<u>Gene Expression</u>	Dr. Emanuel Goldman egoldman@njms.rutgers.edu 973-972-4367	Open to Masters and PhD students.	3	N	Wednesday	09/04/19	12/18/19	5:00 PM - 7:50 PM	ICPH Auditorium (Provided by Course Director)
<u>GSND 51350</u>	<u>Research Design & Statistics</u>	Dr. Catherine Myers catherine.myers2@va.gov cemyers@njms.rutgers.edu 973-676-1000 x1810	Open to PhD students only. Enrollment limit 35. (See below for required text and software.)	2	N	Monday	09/09/19	12/16/19	5:30 PM - 7:20 PM	MSB Room B619
<u>GSND 52000</u>	<u>Introduction to Biomedical Sciences (CORE)</u>	Dr. Michael Mathews mathews@rutgers.edu 973-972-3133	Mandatory for PhD students usually 1st years, Masters students with permission	5	N	Monday, Wednesday & Friday	09/04/19	12/18/19	9:15 AM - 11:20 AM	MSB Room B619 Confirmed
<u>GSND 52350</u>	<u>Principles of Clinical & Translational Research in Oncology</u>	Dr. Robert Wieder wiederro@njms.rutgers.edu 973-972-4871	Open to Masters and PhD students.	2	N	Monday	09/16/19	12/16/19	6:00 PM - 8:15 PM	Cancer Center Room G1196 (Provided by Course Director)
<u>GSND 53250</u>	<u>Introduction to Bio-Medical Ethics</u>	Dr. Michael E. Shapiro Mes362@njms.rutgers.edu 973-972-6639	Open to Masters & PhD students. Enrollment limit 30.	2	N	Thursday	9/5/19	12/12/19	10:00 AM - 11:50 AM	MSB Room B619 (except on 9/12 Room B609 B&C)
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.	4.5 PT 9 FT	S/U	By Arrangement				

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MBGC 5070Q	Advances in Nucleic Acids: RNA	Dr. Mukund Modak modak@njms.rutgers.edu 973-972-5515	Open to 2nd year PhD students with completion of IBMS. Other admitted with permission of the course director.	2	N	Monday and Wednesday	10/16/19	12/04/19	1:15 PM - 2:50 PM	ICPH Room E220R (Provided by Course Director)
MBGC 5071Q	Advances in Nucleic Acids: DNA	Dr. Mukund Modak modak@njms.rutgers.edu 973-972-5515	Open to 2nd year PhD students with completion of IBMS. Other admitted with permission of the course director.	2	N	Monday and Wednesday	09/04/19	10/14/19	1:15 PM - 2:50 PM	ICPH Room E220R (Provided by Course Director)
MBGC 5075Q	Cell Death	Dr. Raymond Birge birgera@njms.rutgers.edu 973-972-4497	Open to Masters and PhD students. (See below for required text).	2	N	Monday & Thursday	10/21/19	12/19/19	6:00 PM - 7:50 PM	Mondays in MSB Room B556 Wednesday in Cancer Center G1196
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	Variable	09/09/19	12/23/19	Variable	TBA
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 9	S/U	By Arrangement				
MICR 5000Q	Thesis Research	Faculty	Completion of course requirements.	4.5 PT 9 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.	4.5 PT 9 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 to 9	S/U	By Arrangement				
MSBS 5125Q	Teacher Training Internship	Dr. Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899	Permission of Course Director	1-3	S/U	By Arrangement				
MSBS 5130Q	Stem Cell Biology & Applications in Molecular Medicine	Dr. Pranela Rameshwar rameshwa@njms.rutgers.edu 973-972-4913	Open to Masters and PhD students.	3	N	Monday	08/26/19	12/02/19	6:00 PM - 8:50 PM	MSB Room B610 (except on 10/14/19 Room C600 requested)

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MSBS 520AQ	Advanced Stem Cell Seminar	Dr. Pranela Rameshwar rameshwa@njms.rutgers.edu 973-972-4913	MSBS 5130Q or concurrent registration. Open to Masters and PhD students.	2	N	Wednesday	08/28/19	11/20/19	6:00 PM - 7:50 PM	MSB Room B610
NEUR 5000Q	Thesis Research	Faculty	Completion of course requirements.	4.5 PT 9 FT	S/U	By Arrangement				
NEUR 5200Q	Fundamentals of Neuroscience	Dr. Steve Levison levisosw@njms.rutgers.edu 973-972-5162	Open to Masters and PhD students. (See below for required text).	3	N	Thursday	09/05/19	12/19/19	5:00 PM - 7:50 PM	Requested MSB C600 and Room B518 & B544 on 10/17 & 10/24
PATH 5000Q	Thesis Research	Faculty	Completion of course requirements.	4.5 PT 9 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 & Friday	09/04/19	10/14/19	12:00 PM - 1:50 PM	MSB Room C555 (Provided by Course Director)
PATH 5100Q	Cellular Pathology	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	10/21/19	12/19/19	4:00 PM - 5:50 PM	MSB room B552 (except on 10/24 room B556)
PATH 5210Q	Molecular and Cellular Immunology	Dr. Joan Durbin durbinje@rutgers.edu	Open to PhD students only. (See below for required text).	3	N	Monday & Wednesday	10/21/19	12/18/19	2:30 PM - 3:50 PM	Mondays in MSB Room B610 Wednesdays MSB Room C600 requested
PATH N5209	The Business of Science: Drug Development - From Molecules to Medicines	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	09/04/19	12/18/19	5:00 PM - 7:50 PM	MSB Room B619 Confirmed

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PHMS 5000Q	Biomedical Science Thesis Research	Faculty	Completion of course requirements.	4.5 PT 9 FT	S/U	By Arrangement				
<u>PHPY 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	09/09/19	12/16/19	6:00 PM - 8:50 PM	MSB Room B552 (except on 10/16 room B556) on 9/16 6:30 PM - 9:30 PM
<u>PHPY N5225</u>	<u>Principles of Toxicology</u>	Dr. Ramez Labib ramez.labib@avon.com Dr. Thomas Visalli tvis624@yahoo.com 201-949-4833	Open to Masters and PhD students.	3	N	Thursday	09/05/19	12/05/19	6:00 PM - 8:50 PM	MSB Room B552
PHPY 5000Q	Thesis Research	Faculty	Completion of course requirements.	4.5 PT 9 FT	S/U	By Arrangement				
TIII 5000Q	III Thesis Research	Faculty	Open to PhD students only.	4.5 PT 9 FT	S/U	By Arrangement				
TIII 5155Q	Critical Readings in I ³ A	Dr. Nikhat Parveen parveeni@njms.rutgers.edu 973-972-5218	PhD only with priority to 1st year I3 students.	0.5	N	Tuesday	08/27/19	10/15/19	9:30 AM - 10:50 AM	ICPH Room E220R (Provided by Course Director)
TIII 5156Q	Critical Readings in I ³ B	Dr. Amariliz Rivera riveraam@njms.rutgers.edu 973-972-2568	PhD only with priority to 1st year I3 students.	0.5	N	Tuesday	10/22/19	12/17/19	10:00 AM 11:30 AM	Cancer Center Room H1197 (Provided by Course Director)
TIII 5160Q	Critical Readings in the Chemical Biology of infectious Diseases	Dr. Joel Freundlich freundjs@njms.rutgers.edu 973-972-7165	Open to PhD Students only.	0.5	N	Wednesday	10/23/19	12/18/19	10:00 AM - 11:20 AM	Cancer Center Room H1197
<u>TIII 5620Q</u>	<u>Classic & 21st Century Pathogens</u>	Dr. David M. Lukac lukacdm@njms.rutgers.edu 973-972-4868	Open to PhD students only.	2	N	Monday, Wednesday, Friday	08/26/19	10/18/19	2:00 PM - 3:20 PM	ICPH Auditorium (Provided by Course Director)

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TIII 593AQ, BQ, CQ*	Lab Rotations in I ³	Dr. David M. Lukac lukacdm@njms.rutgers.edu 973-972-4868 Dr. Matthew Neiditch neiditmb@njms.rutgers.edu 973-972-8981	Use for the first 3 rotations.	2	N					By Arrangement
TIII 5930Q*	Lab Rotations in I ³	Dr. David M. Lukac lukacdm@njms.rutgers.edu 973-972-4868 Dr. Matthew Neiditch neiditmb@njms.rutgers.edu 973-972-8981	Use this course # for all subsequent rotations.	1 to 9	S/U					By Arrangement

* First three rotations – register for A, B, C respectively – all subsequent rotations register for 1 to 9 cr S/U

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 to be manually registered in any course highlighted in yellow. Add/Drop forms are required after online registration has ended.

Last Update: 8/23/19 mb

Required Text

CBMM 5350Q	Molecular Medicine of the Heart	Class notes will be provided. Suggested additional readings: Physiology of the heart (fifth edition) by Arnold M. Katz and The Heart: Physiology from Cell to Circulation by Lionel H Opie								
CBNP 5030Q	Clinical Neuroimmunology	Antel J, et al. Clinical Neuroimmunology , 2 nd edition, Oxford University Press: ISBN-13: 978-0198510680 & ISBN-10: 0198510683								
GSND 5135Q	Research Design and Statistics	OPTIONAL: Statistics for the Behavioral Sciences (9th ed.) by Frederick J. Gravetter & Larry B. Wallnau. REQUIRED: Access to R statistical software (free download at https://cloud.r-project.org) and G*Power (free download at http://www.psych.uni-duesseldorf.de/abteilungen/aap/gpower3/). Students are encouraged to load software onto a laptop and bring to lectures to follow along with in-class examples. 2. SPSS software (available in MSB Academic Computing lab, or for purchase see www.spss.com/statistics 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	6th Edition of Neuroscience, Ed. by Purves et al.								

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PATH 5010Q	General Pathology	Suggested Reading: Robbins Basic Pathology, 9th Edition By Vinay Kumar, MBBS, MD, FRCPath, Abul K. Abbas, MBBS and Jon C. Aster, MD, PhD								
PATH 5100Q	Cellular Pathology	Molecular Biology of the Cell - Alberts etal eds								
PATH 5210Q	Molecular and Cellular Immunology	Janeway's Immunobiology 9 th Edition, Garland Scientific								