

FALL 2018 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.

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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 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	09/05/18	12/17/18	1:00 PM - 2:20 PM	Mondays MSB Room B605 Wednesday ICPH
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				
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	09/05/18	11/28/18	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	09/04/18	12/11/18	9:30 AM - 12:20 PM	9/4 MSB B609 B&C 9/11 CC G1196 9/18MSB B609 B&C 9/25 - 12/11 MSB Room B605
CBNP 5000Q	CBNP Thesis Research	Faculty	Open to PhD students only.	5 PT 10 FT	S/U	By Arrangement				
<u>CBNP 5030Q</u>	<u>Clinical Neuroimmunology</u>	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 permission of course director.	2	N	Monday & Wednesday	10/26/18	12/23/18	5:30 PM - 7:20 PM	ROOM TBD

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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	Previous course in Neuroscience.	2	N	Tuesday & Wednesday	08/28/18	10/17/18	5:00 PM - 6:50 PM	Cancer Center Room F1196 (Confirmed)
CBNP 5155Q	Critical Readings in CBNP	Dr. Martha Nowycky nowyckmc@njms.rutgers.edu 973-972-4391	Open to PhD students only.	1	N	Tuesday	09/04/18	12/11/18	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	10/22/18	12/19/18	5:00:00 PM - 6:50 PM	MSB Room B609 B&C Confirmed
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 10	S/U	By Arrangement				
DENT 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement				
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	08/29/18	12/19/18	10:00 AM - 10:50 AM	Dental School Room B721 (provided by course director)

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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	09/05/18	12/19/18	1:00 PM - 2:50 PM	Dental School Room C987 (provided by course director)
GSND 0596Q	Professional Skills I	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	08/29/18	10/19/18	4:00 PM - 5:20 PM	Cancer Center Room G1196 (provided by course Director)
GSND 5113Q	Gene Expression	Dr. Emanuel Goldman egoldman@njms.rutgers.edu 973-972-4367	Open to Masters and PhD students.	3	N	Wednesday	08/29/18	12/12/18	5:00 PM - 7:40 PM	ICPH Auditorium (Provided by course director)
GSND 5135Q	Research Design & Statistics	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	08/27/18	12/17/18	5:30 PM - 7:20 PM	MSB Room B556 Until 10/8/18 then TBD
GSND 5200Q	Introduction to Biomedical Sciences (CORE)	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	08/29/18	12/21/18	9:30 AM - 11:20 AM	ICPH Auditorium
GSND 5325Q	Introduction to Bio-Medical Ethics	Dr. Michael E. Shapiro Mes362@njms.rutgers.edu 973-972-6639	Open to Masters & PhD students. Enrollment limit 30.	2	N	Thursday	9/6/18	12/13/18	10:00 AM - 11:50 AM	MSB B609 B&C Confirmed
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				
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	10/15/18	12/05/18	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	08/27/18	10/10/18	1:15 PM - 2:50 PM	ICPH Room E220R (Provided by course director)

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Course #	Title	Course Director	Prerequisites	Credits	Grade Mode	Days Offered	Start Date	End Date	Time	Location
<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 & Thursday	10/22/18	12/20/18	6:00 PM - 7:50 PM	Mondays CC G1196 Thursday TBD
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	09/04/18	12/21/18	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 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. Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899	Permission of Course Director	1-3	S/U	By Arrangement				
<u>MSBS 5130Q</u>	<u>Stem Cell Biology & Applications in Molecular Medicine</u>	Dr. Pranela Rameshwar rameshwa@njms.rutgers.edu 973-972-4913	Open to Masters and PhD students.	3	N	Monday	08/27/18	12/03/18	6:00 PM - 8:50 PM	MSB Room B610 (Confirmed)
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	08/29/18	11/21/18	6:00 PM - 7:50 PM	MSB Room B610 (confirmed)
NEUR 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement				

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NEUR 5200Q	Fundamentals of Neuroscience	Dr. Steve Levison levisow@njms.rutgers.edu 973-972-5162	Open to Masters and PhD students. (See below for required text).	3	N	Thursday	08/30/18	12/20/18	5:00 PM - 7:50 PM	MSB C-600 (confirmed) MSB Room B518 & B544 on 10/11 & 10/18 Lab sessions
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 & Friday	09/05/18	10/15/18	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	10/22/18	12/17/18	4:00 PM - 5:50 PM	MSB 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	10/22/18	12/19/18	2:30 PM - 3:50 PM	Mondays MSB Room B610 Wednesday TBD
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	09/05/18	12/19/18	6:00 PM - 9:00 PM	MSB Room B617 Confirmed
PHMS 5000Q	Biomedical Science Thesis Research	Faculty	Completion of course requirements.	5 to 10	S/U	By Arrangement				
PHPY N5021	Fundamentals of Pharmacology	Dr. Martha Nowycky nowyckmc@njms.rutgers.edu 973-972-4391	Open to Masters and PhD students.	3	N	Monday	09/10/18	12/10/18	6:00 PM - 8:50 PM	MSB Room B552 (Confirmed)

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PHPY N5225	Principles of Toxicology	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	09/06/18	12/06/18	6:00 PM - 8:50 PM	MSB Room B556 (Confirmed)
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 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	08/21/18	10/23/18	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	10/23/18	12/11/18	10:00 AM - 11:30 AM	Cancer Center H1197 provided by course director
TIII 5170Q	Antigenic Variation and Drug Resistance in Infectious Diseases	Katsunori Sugimoto Nori.sugimoto@rutgers.edu 973-972-4436	Basic knowledge in molecular biology and genetics. Go over the video. http://ocw.mit.edu/courses/biology/7-01sc-fundamentals-of-biology/	0.5	N	Wednesday	8/29/18	10/17/18	9:30 AM - 10:50 AM	MSB Room B605 except on 9/12 will be held in MSB C696 SGS Conference Room
TIII 5620Q	Classic & 21st Century Pathogens	Dr. David M. Lukac lukacdm@njms.rutgers.edu 973-972-4868	Open to PhD students only.	2	N	Monday, Wednesday, Friday	08/29/18	10/26/18	3:30 PM - 5:00 PM	ICPH Auditorium (Provided by course director)
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 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

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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: 8/29/18 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.							
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							