

SPRING 2020 PHD COURSE SCHEDULE

School of Graduate studies

Consult (<http://njms.rutgers.edu/gsbs/index.cfm>) or respective Course Director(s) for up to date information.

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COURSES HIGHLIGHTED IN YELLOW ARE NOT AVAILABLE FOR ONLINE REGISTRATION

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Course #	Title	Course Director	Prerequisites	Credits	Grade Mode	Day(s)	Start Date	End Date	Start Time	End Time	Location
6718 5600S	Communicating Science	Nicholas Ponzio ponzio@njms.rutgers.edu 973-972-5238	PhD Students only. Completion of candidacy exam.	3	S/U	Wednesday	1/22	5/6	4:00 PM	6:50 PM	RWJMS Research Tower, Room V14 Busch Campus Piscataway
BIOC 5125Q	<u>Viruses, Cells and Disease</u>	Michael Mathews mathews@njms.rutgers.edu 973-972-3133 Sergei Kotenko kotenkse@njms.rutgers.edu	Open to Masters & PhD students. Approval by Course Directors for Masters students.	2	N	Tuesday & Thursday	1/9	2/27	5:00 PM	6:50 PM	Cancer Center Room G1196 Confirmed by Course Instructor
BMEG 5000Q	Thesis Research	Faculty	Completion of course requirements.	4.5 PT 9 FT	S/U	By Arrangement					
BMEG 5930Q*	Biomedical Engineering Research	Faculty		1 to 9	S/U	By Arrangement					
BMEG 593AQ, BQ, CQ*	Biomedical Engineering Research	Faculty		2	N	By Arrangement					
CBMM 5020Q	<u>Developmental Biology & Stem Cells</u>	Diego Fraidenaich fraidedi@njms.rutgers.edu 973-972-5525	Open to Masters & PhD students.	2	N	Tuesday & Friday	2/18	4/7	10:00 AM	11:50 AM	MSB Room G609 Confirmed by Instructor Exams on 3/10/19 & 4/3/19 in MSB Room B610
CBNP 5000Q	CBNP Thesis Research	Faculty	Completion of course requirements.	4.5 PT 9 FT	S/U	By Arrangement					
CBNP 5033Q	<u>Systems Neuroscience</u>	Kevin Beck beckkd@njms.rutgers.edu 973-676-1000 x3682	Enrollment limit 15.	2	N	Tuesday & Wednesday	4/21	6/10	5:00 PM	6:50 PM	MSB Room B619 Confirmed
CBNP 5036Q	<u>Molecular Physiology of Cell Communication</u>	Mariana De Lorenzo delorems@njms.rutgers.edu 973-972-0822 Andrew Harris aharris@njms.rutgers.edu 973-972-1620	Open to PhD Students only. Required of all CBNP 1st year students.	4	N	Monday & Wednesday	1/6	4/15	2:00 PM	4:00 PM	MSB Room G609 Confirmed by Instructor

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CBNP 5068Q	<u>Molecular Mechanisms of Diseases</u>	Yongkyu Park parky1@njms.rutgers.edu 973-972-2969	Open to Masters & PhD students. Background in Cell and Molecular Biology	3	N	Mondays	2/10	5/21	6:00 PM	9:00 PM	MSB Room G609 Confirmed by Instructor
CBNP 5156Q	Critical Readings in CBNP	Gopal Babu babugo@njms.rutgers.edu 973-972-5376 Jorge Contreras contrejo@njms.rutgers.edu 973-972-3666	Open to PhD Students only.	1	S/U	Friday	1/10	4/3	1:30 PM	2:50 PM	MSB H609 Requested
CBNP 5930Q*	Lab Rotations in CBNP	Joshua Berlin berlinjr@njms.rutgers.edu 973-972-1618 Joseph McArdle mcardle@njms.rutgers.edu 973-972-4428	Use this course # for all subsequent rotations.	1 to 9	S/U	By Arrangement					
CBNP 593AQ, BQ, CQ*	Lab Rotations in CBNP	Joshua Berlin berlinjr@njms.rutgers.edu 973-972-1618 Joseph McArdle mcardle@njms.rutgers.edu 973-972-4428	Utilize for first 3 rotations	2	N	By Arrangement					
DENT 5000Q	Thesis Research	Faculty	Completion of course requirements.	4.5 PT 9 FT	S/U	By Arrangement					
DENT 5025Q	<u>Fundamentals of Dental Materials Science</u>	Anil Ardeschna ardeshap@sdm.rutgers.edu 973-972-1892	Open to Masters & PhD students. Enrollment limit 35. See below for the required/recommended text for the course.	2	N	Friday	1/10	4/17	10:00 AM	11:50 AM	MSB Room B619 Confirmed Except on 1/17/20 MSB Room B610

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DENT 5085Q	Dental Biochemistry	Michael A. Lea lea@njms.rutgers.edu 973-972-5345 (Please read syllabus thoughly Tuesday Class to be held only during weeks 4/14 - 6/2)	Open to Masters & PhD students. This is a Dental School course. Limited intake of 15 students only. Special permission required from: Dr. Vincent K. Tsiagbe 973-972-2612 tsiagbvk@sdm.rutgers.edu.	4	N	Monday Tuesday Wednesday	3/9	6/15	11:00 AM 1:00 PM 10:00 AM	12:50 PM 2:50 PM 11:50 AM	Dental School Room B961 Oral Health Pavilion confirmed by Course Director
DENT 5220Q	Methods in Microscopic Imaging	Kabilan Velliyagounder velliyka@sdm.rutgers.edu 973-972-5051	Open to Masters & PhD students. Enrollment Limit 12.	2	N	Wednesday	1/8	4/22	1:00 PM	2:50 PM	Dental School room C987 Confirmed by instructor
DENT 5300Q	Oral Microbiology	Scott Kachlany kachlasc@sdm.rutgers.edu 973-972-3057	Enrollment limit of 75. Open to Masters & PhD Students. Previous course in Microbiology or good academic performance in first or second semester at SGS-N is an advantage. Advice from Course Director is recommended.	3	N	Monday Wednesday Friday	1/3	2/28	10:00 AM 10:00 AM 10:00 AM	11:50 AM 11:50 AM 11:50 AM	Dental School Room B963 Oral Health Pavilion confirmed by Course Director
DENT 5310Q	Oral Immunology	Vincent Tsiagbe tsiagbvk@sdm.rutgers.edu 973-972-2612 (Please read syllabus thoughly Tuesday Class to be held only during weeks 3/10 - 4/7)	Enrollment limit of 70. Open to Masters & PhD Students. Previous course in Cell Biology or Histology or good academic performance in first or second semester at SGS-N is an advantage. Advice from Dental Scholar Adviser or Course Director is recommended.	3	N	Monday Tuesday Wednesday	3/9	4/22	2:00 PM 1:00 PM 8:00 AM	3:50 PM 2:50 PM 9:50 AM	Dental School Room B963 Oral Health Pavilion confirmed by Course Director
DENT 5910Q	Oral Biology Research Seminar	Scott Kachlany kachlasc@sdm.rutgers.edu	Open to Masters & PhD students.	1	N	Friday	1/17	4/3	1:00 PM	1:50 PM	MSB Room C600 requested
GSND 5001Q	Responsible Conduct of Research	Carol Lutz lutzcs@njms.rutgers.edu	Mandatory for all PhD Students.	1	S/U	Monday	1/27	5/4	4:00 PM	4:50 PM	MSB Room B619 Confirmed

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GSND 5008Q	<u>QA/QI Research in Clinical Settings</u>	Ping-Hsin Chen chenpi@njms.rutgers.edu 973-972-7351 Steven Keller sek1949@gmail.com 973-972-5036	Open to Masters & PhD students. Prior experience in chart reviews and statistical analysis are not assumed or required. Enrollment limit of 35. Immunizations according to Rutgers policy.	3	N	Thursday	1/9	4/16	12:00 PM	1:50 PM	MSB Room B516/B542 Requested
GSND 5120Q	<u>Clinical Implications of Human Poisoning</u>	Lewis Nelson ln196@njms.rutgers.edu Cynthia Santos cynthia.d.antos@rutgers.edu		2	N	Monday & Thursday	6/8	7/30	2:00 PM	4:50 PM	MSB Room B619 Confirmed
GSND 5300Q	Independent Study in Biomedical Sciences	Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899		1 to 4	S/U	By Arrangement					
GSND 5325Q	Introduction to Bio-Medical Ethics	Dr. Michael E. Shapiro mes362@njms.rutgers.edu 973-972-6639	Open to Masters and PhS students Enrollment Limit 30	2	N	Thursday	1/9	5/7	10:00 AM	11:50 AM	MSB Room B619 B&C Requested
MBGC 5000Q	MBGC Thesis Research	Faculty	Completion of course requirements.	4.5 PT 9 FT	S/U	By Arrangement					
MBGC 5002Q	Introduction to Genomics, Proteomics, and Bioinformatics	Seema Husain husainse@njms.rutgers.edu Vivian Bellofatto bellofat@rutgers.edu	Open to Masters & PhD students. IBMS (GSND 5200Q) or Fundamentals A (GSND N500A) or permission of the course director.	2	N	Monday & Wednesday	2/24	4/15	10:00 AM	11:50 AM	MSB Room B619 Confirmed
MBGC 5015Q	<u>Cancer Biology: Extrinsic Factors in Cancer Progression</u>	Dr. Robert Wieder wiederro@njms.rutgers.edu 973-972-4871	PhD Students only.	2	N	Tuesday & Friday	3/3	4/14	10:00 AM	11:50 AM	Cancer Center Room H1196 Confirmed by Course Instructor
MBGC 5020Q	<u>Cancer Biology: Intrinsic Cell Signaling and Cancer Development</u>	Dr. Robert Wieder wiederro@njms.rutgers.edu 973-972-4871	PhD Students only.	2	N	Tuesday & Friday	1/7	2/25	10:00 AM	11:50 AM	Cancer Center Room H1196 Confirmed by Course Instructor

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MSBS 5120Q	Pharmaceutical Internships	Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899	Open to Masters & PhD students. Permission of the course director.	2 to 3	S/U	By Arrangement					
MSBS 5125Q	Teacher Training Internship	Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899	Open to Masters & PhD students. Permission of Dr. Lutz.	1 to 3	S/U	By Arrangement					
MSBS N5134	<u>Hematopoietic Stem Cell Biology</u>	Panela Rameshwar rameshwa@njms.rutgers.edu 973-972-0625	Open to Masters & PhD students. Background in cell biology and stem cell biology suggested.	2	N	Mondays	1/27	3/30	6:00 PM	7:50 PM	MSB Room B610 Requested
MSBS N512Q	<u>Topics in Cancer Stem Cell Biology</u>	Panela Rameshwar rameshwa@njms.rutgers.edu 973-972-0625	Open to Masters & PhD students.	2	N	Tuesday & Thursday	5/25	6/30	6:00 PM	7:50 PM	MSB Room B610 Requested
NEUR N5040	<u>Neurobiology of Disease</u>	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	1/9	4/16	5:30 PM	8:20 PM	MSB Room B619 Confirmed
PATH 5000Q	Thesis Research	Faculty	Completion of course requirements.	4.5 PT 9 FT	S/U	By Arrangement					
PATH 5130Q	DNA Repair in Health and Disease	Muriel Lambert mlambert@njms.rutgers.edu 973-972-4405	Class size limited to 22 students This course is for PhD and Masters students	1	N	Monday & Wednesday	1/22	2/26	4:00 PM	5:20 PM	MSB Room B09 B&C Requested
PHMS 5000Q	Interdisciplinary Ph.D. Thesis Research	Faculty	Completion of course requirements.	4.5 PT 9 FT	S/U	By Arrangement					
PHPY 5005Q	Fundamentals of Human Physiology	Krista Blackwell blackwkn@njms.rutgers.edu 973-972-2863	Open to Masters & PhD students. PhD students must have permission to enroll in the course.	3	N	Monday	1/6	4/20	2:00 PM	5:00 PM	MSB Room B552 being coordinated by course instructor

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PHPY 5085Q	<u>Neuroendocrinology: Regulation of Physiological Processes</u>	Vanessa Routh routhvh@njms.rutgers.edu 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	1/14	5/14	6:00 PM	8:50 PM	MSB Room B556 Requested
PHPY N526Q	Principles of Toxicology II	Ramez Labib ramezlabib@yahoo.com Thomas Visalli tvis624@yahoo.com	Open to Masters & PhD students.	3	N	Tuesday	2/4	5/5	6:00 PM	8:50 PM	MSB Room B556 Requested exams on 3/17 & 5/5 in room B552 & B556
TIII 5000Q	I3 Thesis Research	Faculty	Completion of course requirements.	4.5 PT 9 FT	S/U	By Arrangement					
TIII 5022Q	<u>Advanced Concepts in I3</u>	George Yap yapgs@njms.rutgers.edu 973-972-5394 Padmini Salgame salgampa@njms.rutgers.edu 973-972-9490	Open to PhD students only. Classic & 21st Century Pathogens (TIII 5620Q) and Molecular & Cellular Immunology (PATH 5210Q).	4	N	Monday & Wednesday	2/25	6/12	1:00 PM	3:00 PM	Cancer Center Room F1196 Requested
TIII 5170Q	<u>Antigenic Variation and Drug Resistance in Infectious Diseases</u>	Katsunori Sugimoto sugimoka@rutgers.edu 973-972-4436		0.5	N	Wednesday	2/26	4/15	9:30 AM	10:30 AM	ICPH Building Confirmed By Course instructor
TIII 555DQ	<u>Critical Reading in Parasitology</u>	Purnima Bhanot bhanotpu@njms.rutgers.edu 973-972-3273		0.5	N	Tuesday	4/7	8/11	10:00 AM	11:00 AM	To be announced
TIII 5930Q*	Lab Rotations in I3	David M. Lukac lukacdm@njms.rutgers.edu 973-972-4868 Matthew Neiditch neiditmb@njms.rutgers.edu 973-972-8981	Use this course # for all subsequent rotations.	1 to 9	S/U	By Arrangement					

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TIII 593AQ, BQ, CQ*	Lab Rotations in I3	David M. Lukac lukacdm@njms.rutgers.edu 973-972-4868 Matthew Neiditch neiditmb@njms.rutgers.edu 973-972-8981	Utilize for the first 3 rotations.	2	N						By Arrangement

*** First three rotations -- register for A, B, C respectively -- all subsequent rotations register for 1 to 10 cr S/U**

Last Update: 3/4/2020 MB

Required/Recommended Text

DENT	<i>Fundamentals of Dental Materials Science</i>	Introduction to Dental Materials 4 th Edition. Richard Van Noort
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 5300Q	<i>Oral Microbiology</i>	Medical Microbiology, 7th edition. Murray, et al. Mosby, Inc. ISBN: 978-0-323-08692-9.
DENT 5310Q	<i>Oral Immunology</i>	Recommended: Janeway's Immunology, 9 th edition, 2017. ISBN: 978-0-8153-4505-3, see syllabus for others
MBGC 5002Q	<i>Introduction to Genomics, Proteomics & Bioinformatics</i>	Recommended Textbooks: Discovering Genomics, Proteomics & Bioinformatics (2nd Edition. 2006) Campbell A. M. & Heyer L. J. (Benjamin Cummings).
MBGC 5015Q	<i>Cancer Biology: Extrinsic Factors in Cancer Progression</i>	The Biology of Cancer by Robert A. Weinberg
MBGC 5020Q	<i>Cancer Biology: Intrinsic Cell Signaling and Cancer Development</i>	The Biology of Cancer by Robert A. Weinberg
MSBS N5134	<i>Hematopoietic Stem Cell Biology and Dysfunction</i>	Recommended: Clinical+A2:L85A1:L85 Hematology, Edited by Neal S. Young, Stanton L. Gerson and Katherine A. High. Mosby Elsevier, ISBN 0-323-01908-0
PHPY 5005Q	Fundamentals of Human Physiology	Recommended Text: Costanzo Physiology 5th or 6th Edition