

SPRING 2019 MASTERS, CERTIFICATE & NON-MATRICULATED 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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Course #	Title	Course Director	Prerequisites	Credits	Grade Mode	Day(s)	Start Date	End Date	Start Time	End Time	Location
BIOC 5125Q	Viruses, Cells and Disease	Michael Mathews mathews@njms.rutgers.edu 973-972-3133 Sergei Kotenko kotenkse@njms.rutgers.edu 973-972-3134	Open to Masters & PhD students. Approval by Course Directors for Masters students.	2	N	Tuesday & Thursday	1/8	2/26	4:30 PM	6:30 PM	Cancer Center Room G1196 Confirmed by Course Director.
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	2/19	4/16	10:00 AM	11:50 AM	MSB Room G609 confirmed by instructor Midterm 3/12/19 Final 4/16/19 MSB Room B610
<u>CBMM N5001</u>	<u>Basic Histology</u>	Virgil Muresan, Ph.D. muresavi@njms.rutgers.edu 973-972-2392	Enrollment limit 45.	3	N	Thursday	1/10	4/18	6:00 PM	8:50 PM	MSB Room B610 (lecture), B516 and B542 (PBL) requested
<u>CBMM N594C</u>	<u>Regional Gross Anatomy: Back & Extremities</u>	Ian Lee, MD leeir@njms.rutgers.edu	Enrollment limit 35.	3	N	Thursday	1/10	4/25	3:00 PM	5:00 PM	MSN Room B527 Confirmed by course Director
CBNP 5033Q	<u>Systems Neuroscience</u>	Kevin Beck beckkd@njms.rutgers.edu 973-676-1000 x3682	Enrollment limit 15.	2	N	Tuesday & Wednesday	4/23	6/12	5:00 PM	6:50 PM	MSB Room B619
CBNP 5037Q	<u>Regenerative Medicine</u>	Elizabeth Moran moranel@njms.rutgers.edu 973-972-5854 Steve Levison levisosw@njms.rutgers.edu 973-972-5162	Open to Masters & PhD students. Background in cell biology and development suggested.	2	N	Tuesday & Thursday	1/3	2/21	3:00 PM	4:50 PM	Cancer Center Room H1196 Requested
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	2/11	5/22	6:00 PM	8:50 PM	MSB Room G609 confirmed by instructor

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CBNP 5140Q	<u>Topics in Neuroimmunology</u>	Christine Rohowsky-Kochan rohowscm@njms.rutgers.edu 973-972-7394	Open to Masters & PhD students. Immunology A (PATH511A) or Molecular & Cellular Immunology (PATH5210Q) or permission of course director.	2	N	Monday & Wednesday	2/25	4/17	5:00 PM	6:50 PM	MSB Room C555 Requested
CBNP 5255Q	<u>Endocrinology of Growth & Metabolism</u>	Nicholas Illsley illsleni@njms.rutgers.edu nillsley@hackensackumc.org 551-996-8122	Open to Masters & PhD students. Limit of 24 Students.	1	N	Wednesday	1/2	2/20	4:00 PM	5:50 PM	MSB room B617 B&C requested
DENT 5025Q	<u>Fundamentals of Dental Materials Science</u>	Anil Ardesna 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	1/11	4/19	10:00 AM	11:50 AM	MSB RoomB619 Confirmed
DENT 5065Q	Dental Physiology	Roman Shirokov roman.shirokov@rutgers.edu 973-972-4132	Enrollment limit 15. For undergraduate prerequisite information and enrollment approval, contact Dr. Vincent Tsiagbe at tsiagbv@sdm.rutgers.edu or 973-972-2612. (See below for required text).	5	N	Monday Tuesday Wednesday Thursday Friday	1/2	3/6	1:00 PM 1:00 PM 1:00 PM 1:00 PM 1:00 PM	2:50 PM 2:50 PM 2:50 PM 2:50 PM 2:50 PM	Dental School Room B961 confirmed by instructor
DENT 5085Q	<u>Dental Biochemistry</u>	Michael A. Lea lea@njms.rutgers.edu 973-972-5345	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 tsiagbv@sdm.rutgers.edu .	4	N	Monday Wednesday	3/11	6/3	11:00 AM 10:00 AM	12:50 PM 11:50 AM	Dental School Room B961 confirmed by instructor

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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	1/9	4/24	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. (See below for required text). Open to Masters & PhD Students Minimum of B in one of the following: Fundamentals A (GSND N500A) Fundamentals B (GSND 500B) Fundamental of Human Physiology (PHPY 5005Q) BMS (GSND 5200Q) Or approval of a Dental Scholar Advisor	3	N	Monday Wednesday Friday	1/2	2/27	10:00 AM 10:00 AM 10:00 AM	11:50 AM 11:50 AM 11:50 AM	Dental School Room B63 Oral Health Pavilion confirmed by course instructor
DENT 5310Q	Oral Immunology	Vincent Tsiagbe tsiagbvk@sdm.rutgers.edu 973-972-2612	Enrollment limit of 70. Open to Masters & PhD Students Minimum of B in one of the following: Fundamentals A (GSND N500A) Fundamentals B (GSND 500B) Fundamental of Human Physiology (PHPY 5005Q) BMS (GSND 5200Q) Or approval of a Dental Scholar Advisor	3	N	Monday Tuesday Wednesday	3/11	4/22	2:00 PM 1:00 PM 8:00 AM	3:50 PM 2:50 PM 9:50 AM	Dental School Room B63 Oral Health Pavilion confirmed by course instructor
DENT 5910Q	Oral Biology Research Seminar	Scott Kachlany kachlasc@sdm.rutgers.edu 973-972-3057	Open to Masters & PhD students.	1	N	Friday	1/18	3/29	1:00 PM	1:50 PM	MSB Room C600 requested
GSND 5008Q	QA/QI Research in Clinical Settings	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	1/10	4/18	12:00 PM	1:50 PM	MSB Room B516 & B542 requested

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GSND 5113Q	<u>Gene Expression</u>	Emanuel Goldman egoldman@njms.rutgers.edu 973-972-4367	Open to Masters students only in the Spring semester. Enrollment limit 80.	3	N	Monday & Thursday	5/2	7/1	2:30 PM	4:50 PM	ICPH Auditorium Confirmed by instructor
GSND 5300Q	Independent Study in Biomedical Sciences	Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899		1 to 4	S	By Arrangement					
GSND 5325Q	Introduction to Bio-Medical Ethics	Dr. Michael E. Shapiro mes362@njms.rutgers.edu 973-972-6639	Open to Masters and PhD students Enrollment Limit 30	2	N	Thursday	1/3	5/2	10:00 AM	11:50 AM	MSB room B617 B&C requested
GSND 5501Q	<u>Medical Biochemistry & Genetics</u>	M. Zafri Humayun	Open to Masters students only for approval, contact Dr. Stephen Garrett at garretst@njms.rutgers.edu	5	N	Monday - Friday	1/7	2/8	2:00 PM	4:50 PM	ICPH Auditorium Confirmed by instructor
GSND N500B	<u>Fundamentals of Biomedical Science Part B: Cellular Biology</u>	Diego Fraidenraich fraidedi@njms.rutgers.edu 973-972-5525	Open to Masters students only.	3	N	Wednesday	1/16	5/22	6:00 PM	9:00 PM	MSB Room B556 requested. Midterm and Final In B556 and B552
MBGC 5002Q	Introduction to Genomics, Proteomics, and Bioinformatics	Maryam Hassimi mh1140@scarletmail.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	2/25	4/17	10:00 AM	11:50 AM	MSB room B617 B&C requested
MICR 5231Q	<u>Molecular Virology</u>	Hua Zhu zhuhu@njms.rutgers.edu 973-972-6488	Open to Masters & PhD students. Fundamentals A (GSND N500A), or IBMS (GSND 5200Q), or MGM (GSND 5210Q), or permission of course director.	3	N	Monday, Tuesday & Thursday	6/6	7/8	5:30 PM	8:20 PM	ICPH Auditorium confirmed by instructor
MICR N5233	<u>Microbes and Infectious Disease</u>	Stephen Garrett garretst@njms.rutgers.edu 973-972-4511	Open to Masters & PhD students.	3	N	Tuesday	1/8	4/23	2:00 PM	4:50 PM	MSB Room B554 requested

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MSBS 5000Q	<u>Masters Thesis Research</u>	Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899		5	S/U	By Arrangement					
MSBS 5015Q	<u>The Host Response to Injury</u>	Zoltan Spolarics spolaric@njms.rutgers.edu 973-972-0117	Open to Masters students only. Fundamental in Biomedical Sciences A or Permission from Course Director	2	N	Monday & Thursday	1/10	3/25	5:00 PM	6:50 PM	MSB room B617 B&C requested
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	<u>Teacher Training Internship</u>	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 5126Q	<u>Human Genetics and Genomics</u>	David Kaback kaback@njms.rutgers.edu 973-972-8967	Masters students only. Fundamentals of Biomedical Sciences A or permission of instructor.	3	N	Monday & Thursday	1/3	5/2	9:45 AM	11:15 AM	MSB Room B540 A&B requested
MSBS 593AQ	<u>Research in Biomedical Sciences</u>	Stephen Garrett garretst@njms.rutgers.edu 973-972-4511	Masters students only. Use this course # for the first rotation.	2	N	By Arrangement					
MSBS 599AQ	<u>Biomedical Training Internship A</u>	Doreen Badheka doreen.badheka@rutgers.edu 973-972-0908	Masters students only. Use this course # for the first rotation.	3	N	By Arrangement					
MSBS 599BQ	Biomedical Training Internship B	Doreen Badheka doreen.badheka@rutgers.edu 973-972-0908	Masters students only	3	S/U	By Arrangement					
MSBS 7000Q	Masters Thesis Continuation	Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899	Prior registration for MSBS 5000Q. Use Master's Thesis Continuation Form; Permission of Mentor & Dr. Lutz.	1 to 8	S/U	By Arrangement					
MSBS N5134	<u>Hematopoietic Stem Cell Biology</u>	Pranela 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	1/28	4/1	6:00 PM	7:50 PM	MSB Room B610 requested

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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	5/28	7/2	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	1/10	4/18	5:30 PM	8:20 PM	Cancer Center Room F1196 Confirmed by course director
PATH 511BQ	<u>Immunology B</u>	Partrcia Fitzgerald-Bocarsly bocarsly@rutgers.edu	Successful completion of Immunology A (PATH 511A).	1	N	Monday & Wednesday	1/7	2/18	2:30 PM	3:50 PM	Cancer Center Room G1196 Requested
PATH 5130Q	DNA Repair in Health and Disease	Muriel Lambert mlambert@njms.rutgers.edu 973-972-4405	Class size limited to 26 students This course is for PhD and Masters students	1	N	Monday & Wednesday	1/14	2/25	4:00 PM	5:20 PM	MSB Room B619 B&C Requested
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	1/7/19	4/22/19	2:00 PM	4:50 PM	MSB Room B552 Confirmed
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	2/26	4/18	4:00 PM	5:50 PM	MSB Room H609 Confirmed by Course Director MSB B610 requested for 3/21 and 4/18
PHPY N5030	Topics in Pharmacology	Lester Sultatos sultatle@njms.rutgers.edu 973-972-6612	Open to Masters students only. Some Physiology recommended. See below for the required/recommended text for the course.	3	N	Thursday	1/17	5/16	6:00 PM	8:50 PM	MSB room B556

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PHPY N526Q	Principles of Toxicology II	Ramez Labib ramezlabib@yahoo.com Thomas Visalli tvis624@yahoo.com	Open to Masters & PhD students.	3	N	Tuesday	2/5	5/7	6:00 PM	8:50 PM	MSB Room B-556 Requested Midterm and Final in Rooms B556 and B552 March 19th and May 7th

Last Update: 12/27/18 MB

Required/Recommended Text for courses

BIOC 5100Q	<i>Molecular Oncology</i>	R.A. Weinberg. The Biology of Cancer, Garland Science, New York, NY, 2014
CBMM N594C	<i>Regional Gross Anatomy: Back & Extremities</i>	Moore Clinically Oriented Anatomy, 7th Edition, by Keith L. Moore and Arthur Dalley, Lippincott Williams & Wilkins - older versions acceptable
CBMM N5001	<i>Basic Histology</i>	Netters Essential Histology and Junqueira's Basic Histology
CBNP 5037Q	<i>Regenerative Medicine</i>	David L. Stocum entitled "Regenerative Biology and Medicine" 2nd Edition which is published by Academic Press. ISBN: 978-0-12-384860-4.
CBNP 5250Q	<i>Introduction to Neurochemistry & Neuropharmacology</i>	Basic Neurochemistry, Eighth Edition: Principles of Molecular, Cellular, and Medical Neurobiology
DENT 5025Q	<i>Fundamentals of Dental Materials Science</i>	Introduction to Dental Materials. Richard Van Noort. 4th Edition 2013, ISBN: 978-0723436591 Mosby Ltd.
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, 9th edition, 2017. ISBN: 978-0-8153-4505-3, see syllabus for others
GSND N500B	<i>Fundamentals of Biomedical Science Part B: Cellular Biology</i>	Recommended Textbook(s) - Most of the lectures are based on chapters from different books. Essential Cell Biology 2nd edition by Alberts et al., 2004, Garland. Molecular Biology of the Cell by Alberts et al., Garland. Molecular Cell Biology, 5th edition, by Lodish et
MSBS 5126Q	<i>Human Genetics and Genomics</i>	Thompson and Thompson Medical Genetics 8th Edition
MSBS N5134	<i>Hematopoietic Stem Cell Biology and Dysfunction</i>	Recommended: Clinical Hematology, Edited by Neal S. Young, Stanton L. Gerson and Katherine A. High. Mosby Elsevier, ISBN 0-323-01908-0

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MBGC 5002Q	<i>Introduction to Genomics, Proteomics & Bioinformatics</i>										
PATH 511BQ	<i>Immunology B</i>										
PHPY N5030	<i>Topics in Pharmacology</i>										

Recommended Textbooks: Discovering Genomics, Proteomics & Bioinformatics
(2nd Edition. 2006) Campbell A. M. & Heyer L. J. (Benjamin Cummings).

Janeway's Immunobiology 8th Edition, Garland Scientific

Recommended: Principles of Pharmacology, Go+A1:L76lan, Tashjian, Armstrong & Armstrong, 3rd edition, Wolters Kluwer, 2012