

# SPRING 2017 MASTERS, CERTIFICATE & NON-MATRICULATED COURSE SCHEDULE

## Graduate School of Biomedical Sciences

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Course #	Title	Course Director	Prerequisites	Credits	Grade Mode	Day(s)	Start Date	End Date	Start Time	End Time	Location
BIOC 5007Q	<u>Foundations of Biochemistry and Molecular Biology</u>	Virendra N Pandey vnp22@njms.rutgers.edu 973-972-0660	Open to Masters & PhD students.	1	N	Monday & Thursday	3/6	4/27	5:00 PM	6:00 PM	Auditorium/ Conference room, ICPH building
BIOC 5100Q	<u>Molecular Oncology</u>	Michael A. Lea lea@njms.rutgers.edu 973-972-5345	Open to Masters & PhD students.	2	N	Monday	1/9	5/15	6:00 PM	8:00 PM	ICPH Auditorium Confirmed
BIOC 5125Q	<u>Viruses, Cells and Disease</u>	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	1/10	2/28	5:00 PM	7:00 PM	Cancer Center G-1196 CONFIRMED
CBMM 5020Q	<u>Developmental Biology &amp; Stem Cells</u>	Diego Fraidenraich fraidedi@njms.rutgers.edu 973-972-5525	Open to Masters & PhD students.	2	N	Tuesday & Friday	2/21	4/11	10:00 AM	12:00 PM	MSB G-609B CONFIRMED
CBMM N5001	<u>Basic Histology</u>	Virgil Muresan, Ph.D. muresavi@njms.rutgers.edu 973-972-2392	Enrollment limit 45.	3	N	Thursday	1/12	4/20	6:00 PM	9:00 PM	MSB Room B-617 CONFIRMED
CBNP N594C	<u>Regional Gross Anatomy</u>	David DeFouw, Ph.D. defouw@njms.rutgers.edu 973-972-5406	Enrollment limit 35.	3	N	Thursday	1/12	4/20	3:00 PM	5:00 PM	Anatomy TBL Room B527 and Lab CONFIRMED
CBNP 5033Q	<u>Systems Neuroscience</u>	Kevin Pang pangke@njms.rutgers.edu 973-676-1000 x-1277	Enrollment limit 15.	2	N	Tuesday & Wednesday	4/25	6/14	5:00 PM	7:00 PM	MSB Room B605 CONFIRMED
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	Monday & Wednesday	4/24	6/14	3:00 PM	5:00 PM	Cancer Center Room G1196 CONFIRMED

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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	Monday	2/13	5/22	9:00 AM	12:00 PM	MSB G-609 CONFIRMED
CBNP 5140Q	<u>Topics in Neuroimmunology</u>	Christine Rohowsky-Kochan rohowskm@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	4/24	6/14	5:00 PM	7:00 PM	TBA
CBNP 5160Q	<u>Human Stem Cell Differentiation</u>	Diego Fraidenaich fraidedi@njms.rutgers.edu 973-972-5525	Open to PhD and Masters students Limited size of 8 (Intensive lab Course for 3 weeks)	2	N	Monday through Saturday	6/5	6/23	10:00 AM	12:00 PM	MSB G-level (iPSC Core) CONFIRMED
CBNP 5255Q	<u>Endocrinology of Growth &amp; 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	1/4	2/22	4:00 PM	6:00 PM	MSB Room B617 CONFIRMED
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	1/6	4/24	10:00 AM	12:00 PM	Dental School Room B-721 CONFIRMED
DENT 5065Q	Dental Physiology	Marguerite Stout stout@njms.rutgers.edu 973-972-4132	Enrollment limit 15. For undergraduate prerequisite information and enrollment approval, contact Dr. Vincent Tsiagbe at <a href="mailto:tsiagbvk@sdm.rutgers.edu">tsiagbvk@sdm.rutgers.edu</a> or 973-972-2612. (See below for required text).	5	N	Monday Tuesday Wednesday Thursday Friday	1/3		1:00 PM 1:00 PM 1:00 PM 1:00 PM 1:00 PM	2:50 PM 1:50 PM 2:50 PM 2:50 PM 2:50 PM	Oral Health Pavilion B-961 CONFIRMED

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DENT 5085Q	<u>Dental Biochemistry</u>	Richard Howells howells@njms.rutgers.edu 973-972-5652 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 tsiagbvk@sdm.rutgers.edu.	4	N	Monday Wednesday Thursday	1/4	3/9	10:00 AM 10:00 AM 10:00 AM	11:50 AM 11:50 AM 11:50 AM	Oral Health Pavilion B-961 CONFIRMED
DENT 5220Q	Methods in Microscopic Imaging	Kabilan Velliyagounder velliya@sdm.rutgers.edu 973-972-5051	Open to Masters & PhD students. Enrollment Limit 12.	2	N	Wednesday	1/4	4/19	1:00 PM	3:00 PM	Dental School Room C987
DENT 5300Q	<u>Oral Microbiology</u>	Scott Kachlany kachlasc@sdm.rutgers.edu 973-972-3057	Open to both Masters and PhD students. Enrollment limit of 75. (See below for required text).	3	N	Monday Tuesday Wednesday	3/13	5/10	11:00 AM 2:00 PM 11:00 AM	12:50 PM 3:50 PM 12:50 PM	Oral Health Pavilion B-963
DENT 5310Q	<u>Oral Immunology</u>	Vincent Tsiagbe tsiagbvk@sdm.rutgers.edu 973-972-2612	Open to Masters & PhD students. Limit of 75 students.	3	N	Monday Tuesday Wednesday	5/15	6/9	11:00 AM 2:00 PM 11:00 AM	12:50 PM 3:50 PM 12:50 PM	Oral Health Pavilion B-963
DENT 5910Q	Oral Biology Research Seminar	Scott Kachlany kachlasc@sdm.rutgers.edu 973-972-3057	Open to Masters & PhD students.	1	N	Friday	1/20	3/31	1:00 PM	2:00 PM	MSB C-600
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	1/12	4/20	Lecture 1:00 PM Lab 12:00 PM - 1:00 PM	Lecture 3:00 PM Lab 3:00 PM - 4:00 PM	MSB Room B522 CONFIRMED
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 75.	3	N	Monday & Thursday	5/1	6/26	2:20 PM	5:00 PM	ICPH Auditorium CONFIRMED

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GSND 5300Q	Independent Study in Biomedical Sciences	Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899		1 to 4	S	By Arrangement					
GSND 5320Q	<u>Pharmacology and Drug Marketing</u>	David Segarnick segarnjd@njms.rutgers.edu 973-996-2367	Open to Masters & PhD students. Principles of Pharmacology (PHPY 5020) or Fundamentals of Pharmacology (PHPY N5021) or Principles of Toxicology (PHPY N5225). See below for the required/recommended text for the course.	2	N	Tuesday	1/10	4/4	7:00 PM	9:00 PM	MSB Room B-610 CONFIRMED
GSND 5501Q	<u>Medical Biochemistry &amp; Genetics</u>	M. Zafri Humayun	Open to Masters students only for approval, contact Dr. Stephen Garrett at <a href="mailto:garretst@njms.rutgers.edu">garretst@njms.rutgers.edu</a>	5	N	Monday through Friday	1/9	2/17	9:00 AM	3:00 PM	TBD
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	1/18	5/24	6:00 PM	9:00 PM	MSB B-552 Exams 3/15 & 5/17 B552 and B556 CONFIRMED
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	6/1	7/3	5:30 PM	8:30 PM	ICPH Auditorium
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	1/3	4/25	2:00 PM	5:00 PM	MSB Room B-554 CONFIRMED except on 3/7/17 MSB Room B-552
MSBS 5000Q	<u>Masters Thesis Research</u>	Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899		5	S/U	By Arrangement					

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MSBS 5015Q	<u>The Host Response to Injury</u>	Zoltan Spolarics spolaric@njms.rutgers.edu 973-972-0117 George Hasko haskoge@njms.rutgers.edu 973-972-8694	Open to Masters students only. Fundamental in Biomedical Sciences A or Permission from Course Director	2	N	Monday & Thursday	1/9	3/20	5:00 PM	7:00 PM	MSB Room B-619 CONFIRMED
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.	2	N	Monday & Thursday	1/5	2/23	9:45 AM	11:15 AM	MSB Room B619 CONFIRMED
<del>MSBS-5145Q</del>	<del><u>Molecular Genetics</u></del>	<del>David Kaback kaback@njms.rutgers.edu 973-972-8967</del>	<del>Masters students only. Fundamentals of Biomedical Sciences A or permission of instructor.</del>	<del>2</del>	<del>N</del>	<del>Monday &amp; Thursday</del>	<del>2/27</del>	<del>4/20</del>	<del>9:30 AM</del>	<del>11:15 AM</del>	<del>MSB Room B619 CONFIRMED</del>
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 593BQ	Research in Biomedical Sciences	Stephen Garrett garretst@njms.rutgers.edu 973-972-4511	Masters students only. Use this course # for the second rotation (special permission required)	2	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	Monday	1/23	3/27	6:00 PM	8:00 PM	MSB Room B-610 CONFIRMED

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Course #	Title	Course Director	Prerequisites	Credits	Grade Mode	Day(s)	Start Date	End Date	Start Time	End Time	Location
MSBS N512Q	<u>Topics in Cancer Stem Cell Biology</u>	Pranela Rameshwar rameshwa@njms.rutgers.edu 973-972-0625	Open to Masters & PhD students.	2	N	Tuesday & Thursday	5/30	7/6	6:00 PM	8:00 PM	MSB Room B-610 CONFIRMED
NEUR 5240Q	Demyelinating Diseases	Teresa Wood woodte@njms.rutgers.edu 972-972-6529	Open to Masters & PhD students. Cellular & Developmental Neuroscience (CBNP 5150Q) or permission of course director. Permission of course director for Masters students is required. <b>Enrollment Limit 8</b>	1	N	TBD	4/24	6/9	TBD	TBD	Cancer Center Conference Room CONFIRMED
NEUR N504Q	<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	1/5	4/13	5:30 PM	8:30 PM	MSB Room B610 CONFIRMED
PATH 511BQ	<u>Immunology B</u>	Patricia Fitzgerald-Bocarsly bocarsly@rutgers.edu 973-972-5233	Successful completion of Immunology A (PATH 511A).	1	N	Monday & Wednesday	1/4	2/13	4:30 PM	6:00 PM	MSB Room C-555 CONFIRMED
PATH 5130Q	DNA Repair in Health and Disease	Muriel Lambert mlambert@njms.rutgers.edu 973-972-4405		1	N	Monday & Wednesday	1/23	3/1	4:00 PM	5:30 PM	MSB Room B-610 CONFIRMED
PHPY 5005Q	<u>Fundamentals of Human Physiology</u>	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	1/9	4/24	2:00 PM	5:00 PM	MSB Room B-554 CONFIRMED except on 3/6/17 MSB Room B-610
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	2/28	4/20	4:00 PM	6:00 PM	MSB Room H-609

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PHPY N5030	Topics in Pharmacology	Lester Sultatos <a href="mailto:sultatle@njms.rutgers.edu">sultatle@njms.rutgers.edu</a> 973-972-6612	<b>Open to Masters students only. Some Physiology recommended. See below for the required/recommended text for the course.</b>	3	N	Thursday	1/19	5/18	6:00 PM	9:00 PM	MSB Room B-556 CONFIRMED
PHPY N526Q	Principles of Toxicology II	Ramez Labib <a href="mailto:ramezlabib@yahoo.com">ramezlabib@yahoo.com</a> Thomas Visalli <a href="mailto:tvis624@yahoo.com">tvis624@yahoo.com</a>	<b>Open to Masters &amp; PhD students.</b>	3	N	Tuesday	2/7	5/9	6:00 PM	9:00 PM	MSB Room B-552 CONFIRMED

Last Update: 02/13/17 MM

### 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 &amp; Extremities</i>	Moore Clinically Oriented Anatomy, 7th Edition, by Keith L. Moore and Arthur Dalley, Lippincott Williams & Wilkins - older versions acceptable
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 &amp; 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>	<b>Recommended textbook: Janeway's Immunology, 9th edition, 2016, Garland Science. ISBN: 9780815345053. On reserve in library. See syllabus for more.</b>
GSND 5320Q	<i>Pharmacology and Drug Marketing</i>	The Pharmacological Basis of Therapeutics (12th edition) available through the online library service
GSND N500B	<i>Fundamentals of Biomedical Science Part B: Cellular Biology</i>	<b>Recommended Textbook(s)</b> - 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
MSBS 5126Q	<i>Human Genetics and Genomics</i>	Thompson and Thompson Medical Genetics 8th Edition

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MSBS N5134	<i>Hematopoietic Stem Cell Biology and Dysfunction</i>										
MBGC 5002Q	<i>Introduction to Genomics, Proteomics &amp; Bioinformatics</i>										
PATH 511BQ	<i>Immunology B</i>										
PHPY N5030	<i>Topics in Pharmacology</i>										

**Recommended:** Clinical Hematology, Edited by Neal S. Young, Stanton L. Gerson and Katherine A. High. Mosby Elsevier, ISBN 0-323-01908-0

**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, Golan, Tashjian, Armstrong & Armstrong, 3rd edition, Wolters Kluwer, 2012