

# SPRING 2020 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 <a href="mailto:mathews@njms.rutgers.edu">mathews@njms.rutgers.edu</a> 973-972-3133 Sergei Kotenko <a href="mailto:kotenkse@njms.rutgers.edu">kotenkse@njms.rutgers.edu</a> 973-972-3134	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
CBMM 5020Q	<u>Developmental Biology &amp; Stem Cells</u>	Diego Fraidenna <a href="mailto:fraidedi@njms.rutgers.edu">fraidedi@njms.rutgers.edu</a> 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
<u>CBMM N5001</u>	<u>Basic Histology</u>	Virgil Muresan, Ph.D. <a href="mailto:muresavi@njms.rutgers.edu">muresavi@njms.rutgers.edu</a> 973-972-2392	Enrollment limit 45.	3	N	Thursday	1/9	4/16	6:00 PM	8:50 PM	MSB Room B610 (lecture), B516 & B542 (lab) Requested
<u>CBMM N594C</u>	<u>Regional Gross Anatomy: Back &amp; Upper Extremities</u>	George Holan, PT, DPT, GCS, NCS <a href="mailto:holange@njms.rutgers.edu">holange@njms.rutgers.edu</a>	Enrollment limit 35.	3	N	Thursday	1/9	4/23	3:00 PM	5:00 PM	MSB Room B527 Confirmed by course Director
CBNP 5033Q	<u>Systems Neuroscience</u>	Kevin Beck <a href="mailto:beckkd@njms.rutgers.edu">beckkd@njms.rutgers.edu</a> 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 5068Q	<u>Molecular Mechanisms of Diseases</u>	Yongkyu Park <a href="mailto:parky1@njms.rutgers.edu">parky1@njms.rutgers.edu</a> 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
DENT 5025Q	<u>Fundamentals of Dental Materials Science</u>	Anil Ardesbna <a href="mailto:ardeshap@sdm.rutgers.edu">ardeshap@sdm.rutgers.edu</a> 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 5065Q	Dental Physiology	Roman Shirokov roman.shirokov@rutgers.edu 973-972-4132 (Please read syllabus thoroughly for lab & exam dates. Class is 1:00 - 4:00 PM on these dates)	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	1/2	3/6	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	Dental School Room B961 Oral Health Pavilion confirmed by Course Director
DENT 5085Q	Dental Biochemistry	Michael A. Lea lea@njms.rutgers.edu 973-972-5345 (Please read syllabus thoroughly 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 <a href="mailto:tsiagbvk@sdm.rutgers.edu">tsiagbvk@sdm.rutgers.edu</a> .	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 velliyya@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 Dental Scholar Adviser or 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 thoroughly 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 Course Director is recommended.	3	N	Monday Tuesday Wednesday	3/9	4/20	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

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DENT 5910Q	Oral Biology Research Seminar	Scott Kachlany kachlasc@sdm.rutgers.edu 973-972-3057	Open to Masters & PhD students.	1	N	Friday	1/17	4/3	1:00 PM	1:50 PM	MSB Room C600 requested
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 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	4/30	6/29	2:20 PM	4:50 PM	ICPH Auditorium Confirmed by Course Instructor
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	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	1/9	5/7	10:00 AM	11:50 AM	MSB Room B619 B&C Requested
GSND 5501Q	<u>Medical Biochemistry &amp; Genetics</u>	M. Zafri Humayun	Open to Masters students only for approval, contact Krista Blackwell blackwkn@njms.rutgers.edu 973-972-2863	5	N	Monday - Friday	1/13	2/20	2:00 PM	4:50 PM	ICPH Auditorium Confirmed by Course Instructor

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Course #	Title	Course Director	Prerequisites	Credits	Grade Mode	Day(s)	Start Date	End Date	Start Time	End Time	Location
GSND N500B	<u>Fundamentals of Biomedical Science</u> Part B: Cellular Biology	Diego Fraidenraich <a href="mailto:fraidedi@njms.rutgers.edu">fraidedi@njms.rutgers.edu</a> 973-972-5525	Open to Masters students only.	3	N	Wednesday	1/15	5/20	6:00 PM	8:50 PM	MSB Room B556 Requested exams on 3/11 & 5/13 in room B552 & B556
MBGC 5002Q	Introduction to Genomics, Proteomics, and Bioinformatics	Seema Husain <a href="mailto:husainse@njms.rutgers.edu">husainse@njms.rutgers.edu</a> Vivian Bellofatto <a href="mailto:bellofat@rutgers.edu">bellofat@rutgers.edu</a>	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
MICR 5231Q	<u>Molecular Virology</u>	Hua Zhu <a href="mailto:zhuhu@njms.rutgers.edu">zhuhu@njms.rutgers.edu</a> 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	6/30	5:30 PM	8:30 PM	ICPH Auditorium Confirmed By Course instructor
MICR N5233	<u>Microbes and Infectious Disease</u>	Ian Whitehead <a href="mailto:whiteip@njms.rutgers.edu">whiteip@njms.rutgers.edu</a> 973-972-5215	Open to Masters & PhD students.	3	N	Tuesday	1/7	4/21	2:00 PM	4:50 PM	MSB Room B552 as per course instructor
MSBS 5000Q	<u>Masters Thesis Research</u>	Carol Lutz <a href="mailto:lutzcs@njms.rutgers.edu">lutzcs@njms.rutgers.edu</a> 973-972-0899		5	S/U	By Arrangement					
MSBS 5120Q	Pharmaceutical Internships	Carol Lutz <a href="mailto:lutzcs@njms.rutgers.edu">lutzcs@njms.rutgers.edu</a> 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 <a href="mailto:lutzcs@njms.rutgers.edu">lutzcs@njms.rutgers.edu</a> 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 <a href="mailto:kaback@njms.rutgers.edu">kaback@njms.rutgers.edu</a> 973-972-8967	Masters students only. Fundamentals of Biomedical Sciences A or permission of instructor.	3	N	Monday & Thursday	1/2	5/6	9:45 AM	11:15 AM	MSB Room B609 B&C Requested
MSBS 593AQ	<u>Research in Biomedical Sciences</u>	Carol Lutz <a href="mailto:lutzcs@njms.rutgers.edu">lutzcs@njms.rutgers.edu</a> 973-972-0899	Masters students only. Use this course # for the first rotation.	2	N	By Arrangement					

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MSBS 599AQ	Biomedical Training Internship A	Doreen Badheka <a href="mailto:doreen.badheka@rutgers.edu">doreen.badheka@rutgers.edu</a> 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 <a href="mailto:doreen.badheka@rutgers.edu">doreen.badheka@rutgers.edu</a> 973-972-0908	Masters students only	3	S/U						By Arrangement
MSBS 7000Q	Masters Thesis Continuation	Carol Lutz <a href="mailto:lutzcs@njms.rutgers.edu">lutzcs@njms.rutgers.edu</a> 973-972-0899	<b>Prior registration for MSBS 5000Q. Use Master's Thesis Continuation Form; Permission of Mentor &amp; Dr. Lutz.</b>	1 to 9	S/U						By Arrangement
MSBS N5134	<u>Hematopoietic Stem Cell Biology</u>	Pranela Rameshwar <a href="mailto:rameshwa@njms.rutgers.edu">rameshwa@njms.rutgers.edu</a> 973-972-0625	<b>Open to Masters &amp; PhD students. Background in cell biology and stem cell biology suggested.</b>	2	N	<b>Mondays</b>	<b>1/27</b>	<b>3/30</b>	<b>6:00 PM</b>	<b>7:50 PM</b>	<b>MSB Room B610 Requested</b>
MSBS N512Q	<u>Topics in Cancer Stem Cell Biology</u>	Pranela Rameshwar <a href="mailto:rameshwa@njms.rutgers.edu">rameshwa@njms.rutgers.edu</a> 973-972-0625	<b>Open to Masters &amp; PhD students.</b>	2	N	<b>Tuesday &amp; Thursday</b>	<b>5/25</b>	<b>6/30</b>	<b>6:00 PM</b>	<b>7:50 PM</b>	<b>MSB Room B610 Requested</b>
NEUR N5040	<u>Neurobiology of Disease</u>	Kevin Beck <a href="mailto:beckkd@njms.rutgers.edu">beckkd@njms.rutgers.edu</a> 973-676-1000 x3682 Stella Elkabes <a href="mailto:elkabest@njms.rutgers.edu">elkabest@njms.rutgers.edu</a> 973-972-5163	<b>Open to Masters &amp; PhD students. Fundamentals of Neuroscience (NEUR 5200Q) or permission of course director.</b>	3	N	<b>Thursday</b>	<b>1/9</b>	<b>4/16</b>	<b>5:30 PM</b>	<b>8:20 PM</b>	<b>MSB Room B619 Confirmed</b>
PATH 511BQ	<u>Immunology B</u>	Joan Durbin <a href="mailto:durbinje@njms.rutgers.edu">durbinje@njms.rutgers.edu</a>	<b>Successful completion of Immunology A (PATH 511A).</b>	1	N	<b>Monday &amp; Wednesday</b>	<b>1/6</b>	<b>2/12</b>	<b>2:30 PM</b>	<b>3:50 PM</b>	<b>MSB Room C555 Requested</b>
PATH 5130Q	DNA Repair in Health and Disease	Muriel Lambert <a href="mailto:mlambert@njms.rutgers.edu">mlambert@njms.rutgers.edu</a> 973-972-4405	<b>Class size limited to 22 students This course is for PhD and Masters students</b>	1	N	<b>Monday &amp; Wednesday</b>	<b>1/22</b>	<b>2/26</b>	<b>4:00 PM</b>	<b>5:20 PM</b>	<b>MSB Room B619 confirmed except on 2/5 &amp; 2/12 MSB Room B619 B&amp;C</b>
PHPY 5005Q	Fundamentals of Human Physiology	Krista Blackwell <a href="mailto:blackwkn@njms.rutgers.edu">blackwkn@njms.rutgers.edu</a> 973-972-2863	Open to Masters & PhD students. PhD students must have permission to enroll in the course.	3	N	<b>Monday</b>	<b>1/6</b>	<b>4/20</b>	<b>2:00 PM</b>	<b>5:00 PM</b>	<b>MSB Room B552 being coordinated by course instructor</b>

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PHPY 5085Q	Neuroendocrinology: Regulation of Physiological Processes	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	2/25	4/16	4:00 PM	5:50 PM	MSB Room H609 except on 3/19/20 and 4/16/20 B610 requested for these dates
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	1/14	5/21	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

Last Update: 3/4/2020 MB

### Required/Recommended Text for courses

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
CBMM N5001	<i>Basic Histology</i>	Netters Essential Histology and Junqueira's Basic Histology
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:</b> 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>	<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 Lodish et



