### FALL 2015 MASTERS, CERTIFICATE & NON-MATRICULATED COURSE SCHEDULE

#### Graduate School of Biomedical Sciences

Consult [http://njms.rutgers.edu/gsbs/index.cfm](http://njms.rutgers.edu/gsbs/index.cfm) or Respective Instructors for up to date information.

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Additional courses located on the PhD course schedule may be available with the permission of the Course Director.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Course Director</th>
<th>Prerequisites</th>
<th>Credits</th>
<th>Grade Mode</th>
<th>Days offered</th>
<th>Start Date</th>
<th>End Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBMM N5001</td>
<td>Basic Histology</td>
<td>Dr. Grace Pinhal-Enfield</td>
<td>Enrollment limit 30. Open to Masters and PhD students. Masters students need permission of Course Director via email. PhD needs permission of Program/Track Director before seeking permission of Course Director via email. (See below for required text).</td>
<td>3</td>
<td>N</td>
<td>Thursday</td>
<td>08/27/15</td>
<td>12/10/15</td>
<td>5.30 PM - 8.30 PM</td>
<td>Lecture Hall: MSB B-610 Lab: MSB B-516/542</td>
</tr>
<tr>
<td>CBMM 5002Q</td>
<td>Practical Approaches for Studying Protein Function</td>
<td>Dr. Maha Abdellatif, Dr. Danish Sayed</td>
<td>Graduate level Molecular Biology or equivalent.</td>
<td>2</td>
<td>N</td>
<td>Wednesday</td>
<td>09/09/15</td>
<td>12/09/15</td>
<td>2.00 PM - 4.00 PM</td>
<td>MSB G-609B</td>
</tr>
<tr>
<td>CBMM 5350Q</td>
<td>Molecular Medicine of the Heart</td>
<td>Dr. Gopal Babu</td>
<td>Open to Masters and PhD students. Permission of Course Director. (See below for required text).</td>
<td>3</td>
<td>N</td>
<td>Tuesday</td>
<td>09/08/15</td>
<td>12/15/15</td>
<td>9:30 AM - 12:30 PM</td>
<td>MSB B-619 *Note: Class in MSB B-610 on 09/08</td>
</tr>
<tr>
<td>CBNP 5032Q</td>
<td>Behavioral and Cognitive Neuroscience</td>
<td>Dr. Kevin Beck, Dr. Kevin Pang</td>
<td>Previous course in Neuroscience.</td>
<td>2</td>
<td>N</td>
<td>Tuesday &amp; Wednesday</td>
<td>10/20/15</td>
<td>12/16/15</td>
<td>5.00 PM - 7.00 PM</td>
<td>MSB I-609</td>
</tr>
<tr>
<td>CBNP 5150Q</td>
<td>Cellular &amp; Developmental Neuroscience</td>
<td>Dr. Teresa Wood, Dr. Steve Levison</td>
<td>Open to Masters and PhD students. Permission of Course Director. (See below for required text).</td>
<td>2</td>
<td>N</td>
<td>Tuesday</td>
<td>10/23/15</td>
<td>12/18/15</td>
<td>3.00 PM - 5.00 PM</td>
<td>Cancer Center H-1196</td>
</tr>
</tbody>
</table>
### Graduate School of Biomedical Sciences

**FALL 2015 MASTERS, CERTIFICATE & NON-MATRICULATED COURSE SCHEDULE**

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<th>Days offered</th>
<th>Start Date</th>
<th>End Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
</table>
| 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          | Tuesday           | 10/20/15    | 12/16/15 | 3.00 PM - 5.00 PM | Cancer Center G-1196 |
| 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         | 08/26/15    | 12/16/15 | 10.00 AM - 11.00 AM | Dental School D-986 |
| DENT 5220Q | Methods in Microscopic Imaging                    | Dr. Kabilan Velliyagounder
velliyka@sdm.rutgers.edu
973-972-5051 | Enrollment Limit 12. Open to Masters and PhD students. | 2       | N          | Wednesday         | 09/02/15    | 12/23/15 | 1.00 PM - 3.00 PM  | TBD                |
| DENT 7106Q | Dental Histology                                  | Dr. Joseph Rinaggio
rinaggio@sdm.rutgers.edu
973-972-8909 | Enrollment limit 15. For approval, contact Dr. Vincent Tsiaibge at tsiaibge@sdm.rutgers.edu or 973-972-2612. (See below for required text). | 5       | N          | Monday, Wednesday, Friday | 08/24/15    | 12/11/15 | 10.00 AM - 11.50 AM | Oral Health Pavilion B-961 |
| GSND 5113Q | Gene Expression                                   | Dr. Emanuel Goldman
egoldman@njms.rutgers.edu
973-972-4367 | Open to Masters and PhD students. | 3       | N          | Tuesday           | 09/01/15    | 12/15/15 | 5.00 PM - 7.40 PM  | ICPH Auditorium     |
| GSND 5207Q | Infection & Host Response                         | Dr. Stephen Garrett
garrett@njms.rutgers.edu
973-972-0323 | Open to Masters students only. For approval, contact Dr. Stephen Garrett at garrett@njms.rutgers.edu. (See below for required text). | 6       | N          | Monday, Tuesday, Wednesday, Thursday, and Friday | 08/10/15    | 10/09/15 | 9:00 AM - 3:00 PM  | MSB B-552           |
| GSND 5235Q | Principles of Clinical and Translational Research in Oncology | Dr. Robert Wieder
wiederro@njms.rutgers.edu
973-972-3558 | Open to Masters and PhD students. Enrollment limit 50. (See below for suggested text). | 2       | N          | Monday           | 09/07/15    | 12/07/15 | 6.00 PM - 8.15 PM  | Cancer Center G-1196 |
| GSND 5300Q | Independent Study in Biomedical Sciences         | Dr. Carol Lutz
lutzcs@njms.rutgers.edu
973-972-0899 | Permission of Course Director. | 1-4     | S/U         | By Arrangement    |             |            |             |                    |
<table>
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<tr>
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<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>GSND 5325Q</td>
<td>Introduction to Bio-Medical Ethics</td>
<td>Dr. Michael E. Shapiro <a href="mailto:Mes362@njms.rutgers.edu">Mes362@njms.rutgers.edu</a> 973-972-6639</td>
<td>Open to Masters &amp; PhD students. Enrollment limit 30.</td>
<td>2</td>
<td>N</td>
<td>Thursday</td>
<td>09/10/15</td>
<td>12/17/15</td>
<td>10.00 AM - 12.00 PM</td>
<td>MSB B-609 B+C</td>
</tr>
<tr>
<td>GSND 5501Q</td>
<td>Medical Biochemistry &amp; Genetics</td>
<td>Dr. M. Zafri Humayun <a href="mailto:humayun@njms.rutgers.edu">humayun@njms.rutgers.edu</a> 973-972-6396 Dr. Krista Blackwell <a href="mailto:blackwkn@njms.rutgers.edu">blackwkn@njms.rutgers.edu</a> 973-972-2863</td>
<td>Open to Masters student only. For approval, contact Dr. Stephen Garrett at <a href="mailto:garretst@njms.rutgers.edu">garretst@njms.rutgers.edu</a>. (See below for required text).</td>
<td>5</td>
<td>N</td>
<td>Monday, Tuesday, Wednesday, Thursday, and Friday</td>
<td>08/10/15</td>
<td>09/21/15</td>
<td>9.00 AM - 3.00 PM</td>
<td>MSB B-556</td>
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<tr>
<td>GSND 5505Q</td>
<td>Intro to Physiology, Pharmacology &amp; Epidemiology</td>
<td>Dr. Krista Blackwell <a href="mailto:blackwkn@njms.rutgers.edu">blackwkn@njms.rutgers.edu</a> 973-972-2863</td>
<td>Open to Masters student only. For approval, contact Dr. Stephen Garrett at <a href="mailto:garretst@njms.rutgers.edu">garretst@njms.rutgers.edu</a>. (See below for required text).</td>
<td>4</td>
<td>N</td>
<td>Monday, Tuesday, Wednesday, Thursday, and Friday</td>
<td>09/22/15</td>
<td>10/23/15</td>
<td>9.00 AM - 3.00 PM</td>
<td>MSB B-556</td>
</tr>
<tr>
<td>GSND 5510Q</td>
<td>Medical Hematology/Oncology &amp; Immunology</td>
<td>Dr. Ian Whitehead <a href="mailto:whiteip@njms.rutgers.edu">whiteip@njms.rutgers.edu</a> 973-972-5215 Dr. Stephen Garrett <a href="mailto:garretst@njms.rutgers.edu">garretst@njms.rutgers.edu</a> 973-972-0323</td>
<td>Open to Masters student only. For approval, contact Dr. Stephen Garrett at <a href="mailto:garretst@njms.rutgers.edu">garretst@njms.rutgers.edu</a>. (See below for required text).</td>
<td>4</td>
<td>N</td>
<td>Monday, Tuesday, Wednesday, Thursday, and Friday</td>
<td>10/26/15</td>
<td>11/24/15</td>
<td>9.00 AM - 3.00 PM</td>
<td>MSB B-556</td>
</tr>
<tr>
<td>GSND 5515Q</td>
<td>Infectious Disease</td>
<td>Dr. Stephen Garrett <a href="mailto:garretst@njms.rutgers.edu">garretst@njms.rutgers.edu</a> 973-972-0323 Dr. Ian Whitehead <a href="mailto:whiteip@njms.rutgers.edu">whiteip@njms.rutgers.edu</a> 973-972-5215</td>
<td>Open to Masters student only. For approval, contact Dr. Stephen Garrett at <a href="mailto:garretst@njms.rutgers.edu">garretst@njms.rutgers.edu</a>. (See below for required text).</td>
<td>5</td>
<td>N</td>
<td>Monday, Tuesday, Wednesday, Thursday, and Friday</td>
<td>11/30/15</td>
<td>1/22/16</td>
<td>9.00 AM - 3.00 PM</td>
<td>MSB B-556</td>
</tr>
<tr>
<td>GSND N500A</td>
<td>Fundamentals of Biomedical Sciences (Part A)</td>
<td>Dr. Michael Lea <a href="mailto:lea@njms.rutgers.edu">lea@njms.rutgers.edu</a> 973-972-5345 Dr. Richard Howells <a href="mailto:howells@njms.rutgers.edu">howells@njms.rutgers.edu</a> 973-972-5652</td>
<td>Open to Masters students only.</td>
<td>3</td>
<td>N</td>
<td>Tuesday</td>
<td>09/08/15</td>
<td>12/08/15</td>
<td>6.00 PM - 9.00 PM</td>
<td>MSB B-556</td>
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<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBGC 5075Q</td>
<td>Cell Death</td>
<td>Dr. Raymond Birge</td>
<td>Open to Masters and PhD students. (See below for required text).</td>
<td>2</td>
<td>N</td>
<td>Monday and Thursday</td>
<td>10/19/15</td>
<td>12/21/15</td>
<td>6.00 PM - 8.00 PM</td>
<td>MSB B-554</td>
</tr>
<tr>
<td>MSBS 5000Q</td>
<td>Masters Thesis Research</td>
<td>Dr. Carol Lutz</td>
<td>Masters students completing Thesis</td>
<td>5</td>
<td>S/U</td>
<td>By Arrangement</td>
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<tr>
<td>MSBS 5120Q</td>
<td>Pharmaceutical Internship</td>
<td>Dr. Carol Lutz</td>
<td>Completion of 15 credits. Permission of Course Director.</td>
<td>2-3</td>
<td>S/U</td>
<td>By Arrangement</td>
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<tr>
<td>MSBS 5125Q</td>
<td>Teacher Training Internship</td>
<td>Dr. Carol Lutz</td>
<td>Permission of Course Director</td>
<td>1-3</td>
<td>S/U</td>
<td>By Arrangement</td>
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<tr>
<td>MSBS 5130Q</td>
<td>Stem Cell Biology &amp; Applications in Molecular</td>
<td>Dr. Pranela Rameshwar</td>
<td>Open to Masters and PhD students.</td>
<td>3</td>
<td>N</td>
<td>Monday</td>
<td>08/24/15</td>
<td>11/30/15</td>
<td>6.00 PM - 9.00 PM</td>
<td>MSB B-610</td>
</tr>
<tr>
<td></td>
<td>Sciences</td>
<td><a href="mailto:Rameshwa@njms.rutgers.edu">Rameshwa@njms.rutgers.edu</a></td>
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<tr>
<td>MSBS 520AQ</td>
<td>Advanced Stem Cell Seminar</td>
<td>Dr. Pranela Rameshwar</td>
<td>MSBS 5130Q or concurrent registration. Open to Masters and PhD students.</td>
<td>2</td>
<td>N</td>
<td>Wednesday</td>
<td>08/26/15</td>
<td>11/18/15</td>
<td>6.00 PM - 8.00 PM</td>
<td>MSB B-552</td>
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<td></td>
<td></td>
<td><a href="mailto:Rameshwa@njms.rutgers.edu">Rameshwa@njms.rutgers.edu</a></td>
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<tr>
<td>MSBS 5910Q</td>
<td>Seminar in Biomedical Sciences</td>
<td>Dr. Raymond Birge</td>
<td>Open to Masters students only.</td>
<td>1</td>
<td>N</td>
<td>Tuesday</td>
<td>09/08/15</td>
<td>12/15/15</td>
<td>4.30 PM - 5.45 PM</td>
<td>MSB B-556</td>
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<td></td>
<td></td>
<td><a href="mailto:birgera@njms.rutgers.edu">birgera@njms.rutgers.edu</a></td>
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<tr>
<td>MSBS 593AQ</td>
<td>Research in Biomedical Sciences</td>
<td>Dr. Stephen Garrett</td>
<td>Use this course # for the first rotation.</td>
<td>2</td>
<td>N</td>
<td>By Arrangement</td>
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<td></td>
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<td><a href="mailto:garretst@njms.rutgers.edu">garretst@njms.rutgers.edu</a></td>
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</tr>
<tr>
<td>MSBS 593BQ</td>
<td>Research in Biomedical Sciences</td>
<td>Dr. Stephen Garrett</td>
<td>Use this course # for the second rotation. Permission of the Course Director.</td>
<td>2</td>
<td>S/U</td>
<td>By Arrangement</td>
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<td><a href="mailto:garretst@njms.rutgers.edu">garretst@njms.rutgers.edu</a></td>
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</thead>
<tbody>
<tr>
<td>MSBS 7000Q</td>
<td>Masters Thesis Continuation</td>
<td>Dr. Carol Lutz <a href="mailto:lutzcs@njms.rutgers.edu">lutzcs@njms.rutgers.edu</a> 973-972-0899</td>
<td>Prior registration for MSBS 5000Q. Thesis not yet completed. MS Thesis Continuation Registration form is required. Permission of Course Director.</td>
<td>1-8</td>
<td>S/U</td>
<td>By Arrangement</td>
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<tr>
<td>NEUR 5200Q</td>
<td>Fundamentals of Neuroscience</td>
<td>Dr. Steve Levison <a href="mailto:levisosw@njms.rutgers.edu">levisosw@njms.rutgers.edu</a> 973-972-5162 Dr. Kevin Pang <a href="mailto:Kevin.Pang@va.gov">Kevin.Pang@va.gov</a> 973 676 1000 x1277</td>
<td>Open to Masters and PhD students. (See below for required text).</td>
<td>3</td>
<td>N</td>
<td>Thursday</td>
<td>08/27/15</td>
<td>12/17/15</td>
<td>5.00 PM - 8.00 PM</td>
<td>MSB B-556</td>
</tr>
<tr>
<td>PATH 5010Q</td>
<td>General Pathology</td>
<td>Dr. George Studzinski <a href="mailto:studzins@njms.rutgers.edu">studzins@njms.rutgers.edu</a> 973-972-5869</td>
<td>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).</td>
<td>2</td>
<td>N</td>
<td>Monday, Wednesday, and Friday</td>
<td>09/02/15</td>
<td>10/16/15</td>
<td>12.00 PM - 2.00 PM</td>
<td>MSB C-555</td>
</tr>
<tr>
<td>PATH 5100Q</td>
<td>Cellular Pathology</td>
<td>Dr. Muriel Lambert <a href="mailto:mlambert@njms.rutgers.edu">mlambert@njms.rutgers.edu</a> 973-972-4405</td>
<td>Open to Masters and PhD students. (See below for required text).</td>
<td>2</td>
<td>N</td>
<td>Monday and Thursday</td>
<td>10/19/15</td>
<td>12/17/15</td>
<td>4.00 PM - 6.00 PM</td>
<td>MSB B-554</td>
</tr>
<tr>
<td>PATH 511AQ</td>
<td>Immunology A</td>
<td>Dr. Patricia Fitzgerald-Bocarsly <a href="mailto:bocarsly@rutgers.edu">bocarsly@rutgers.edu</a> 973-972-5233</td>
<td>Open to Masters students only. (See below for required text).</td>
<td>2</td>
<td>N</td>
<td>Monday and Wednesday</td>
<td>10/19/15</td>
<td>12/18/15</td>
<td>4.30 PM - 6.00 PM</td>
<td>MSB C-600</td>
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<tr>
<td>PATH N5209</td>
<td>The Business of Science: Drug Development - From Molecules to Medicines</td>
<td>Dr. Nicholas Ponzio <a href="mailto:ponzio@njms.rutgers.edu">ponzio@njms.rutgers.edu</a> 973-972-5238</td>
<td>Open to Masters and PhD. Introductory level courses in Biology and Chemistry. Enrollment limit of 20. Permission of Course Director via e-mail. CANCELLED.</td>
<td>3</td>
<td>N</td>
<td>Wednesday</td>
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<tr>
<td>PHPY N5021</td>
<td>Fundamentals of Pharmacology</td>
<td>Dr. Martha Nowycky</td>
<td>Open to Masters and PhD students.</td>
<td>3</td>
<td>N</td>
<td>Monday</td>
<td>09/14/15</td>
<td>12/14/15</td>
<td>6.00 PM - 9.00 PM</td>
<td>MSB B-552</td>
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<tr>
<td>PHPY N5225</td>
<td>Principles of Toxicology</td>
<td>Dr. Ramez Labib</td>
<td>Open to Masters and PhD students.</td>
<td>3</td>
<td>N</td>
<td>Thursday</td>
<td>09/10/15</td>
<td>12/10/15</td>
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</table>

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: 10/21/15 BS

Required Text

<table>
<thead>
<tr>
<th>CBMM 5350Q</th>
<th>Molecular Medicine of the Heart</th>
<th>Physiology of the heart (fifth edition) by Arnold M. Katz</th>
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### Graduate School of Biomedical Sciences

**FALL 2015 MASTERS, CERTIFICATE & NON-MATRICULATED COURSE SCHEDULE**

Consult (http://njms.rutgers.edu/gsbs/index.cfm) or Respective Instructors for up to date information.

Please note that it is the responsibility of the student to contact the respective instructor for the correct time, dates and room assignment information. Instructor e-mail addresses and phone numbers are provided for your convenience.

Additional courses located on the PhD course schedule may be available with the permission of the Course Director.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Course Director</th>
<th>Prerequisites</th>
<th>Credits</th>
<th>Grade Mode</th>
<th>Days offered</th>
<th>Start Date</th>
<th>End Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
</table>
| GSND 5201Q | Molecular & Genetic Medicine "MGM"            | **Suggested Text:** Principles of Medical Biochemistry by Meisenberg and Simmons (3rd edition, published by Elsevier)  
| GSND 5205Q | Genes & Molecules in Medicine                 | Principles of Medical Biochemistry by Meisenberg & Simmons  
  Thompson & Thompson, Genetics in Medicine by Nussbaum, et al. [both recommended, not required] |
| NEUR 5200Q | Fundamentals of Neuroscience                  | 5th Edition of Neuroscience, Ed. by Purves et al. |
| PATH 5010Q | General Pathology                             | **Suggested Reading:** “Wheater’s Functional Histology, 5th edition”.  
| PATH 5100Q | Cellular Pathology                            | Molecular Biology of the Cell – Alberts etal eds |
| PATH 511AQ | Immunology A                                  | Janeway’s Immunobiology 8th Edition, Garland Scientific |