<p>| Course #   | Title                                               | Course Director                                      | Prerequisites                                                                 | Credits | Grade Mode | Days offered | Start Date | End Date | Time             | Instruction Mode       | Location       |
|-----------|-----------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------|---------|------------|--------------|------------|----------|-------------------|------------------------|----------------|-----------------|
| CBMM 5002Q | Practical Approaches for Studying Protein Function  | Dr. Maha Abdellatif <a href="mailto:abdelma@njms.rutgers.edu">abdelma@njms.rutgers.edu</a> 973-972-1254 Dr. Danish Sayed <a href="mailto:sayeddh@njms.rutgers.edu">sayeddh@njms.rutgers.edu</a> 973-972-5243 | GSND N500A (Fundamentals of Biomedical Sciences) or GSND 5200Q (Introduction to Biomedical Sciences) | 2       | N          | Wednesday    | 09/08/21   | 12/1/21  | 2:00 PM - 3:50 PM  | In-Person and Remote* | MSB G609B     |
| CBMM 5350Q | Molecular Medicine of the Heart                   | Dr. Gopal Babu <a href="mailto:babugo@njms.rutgers.edu">babugo@njms.rutgers.edu</a> 973-972-5376 | Permission of Course Director. Open to Masters and PhD students. (See below for required text). | 3       | N          | Tuesday      | 09/07/21   | 12/14/21| 9:30 AM - 12:20 PM | In-Person and Remote* | MSB B619      |
| CBMM N5001 | Basic Histology                                    | Dr. Virgil Muresan, PhD <a href="mailto:muresavi@njms.rutgers.edu">muresavi@njms.rutgers.edu</a> 973-972-2392 | Enrollment limit 45                                                          | 3       | N          | Thursday     | 08/26/21   | 12/09/21 | 6:00 PM - 8:50 PM  | In-Person and Remote* | MSB B610 except MSB B552 on 8/26/2021 |
| CBNP 5032Q | Behavioral and Cognitive Neuroscience              | Dr. Kevin Beck <a href="mailto:beckkd@njms.rutgers.edu">beckkd@njms.rutgers.edu</a> 973-676-1000 x3682 | Previous course in Neuroscience.                                              | 2       | N          | Tuesday &amp; Wednesday | 08/24/21   | 10/13/21 | 5:30 PM - 7:20 PM | In-Person and Remote* | MSB B619      |
| CBNP 5150Q | Cell/Development Neuroscience                     | Dr. Terri Wood <a href="mailto:woodte@njms.rutgers.edu">woodte@njms.rutgers.edu</a> 973-972-6529 | Open to PhD Students; Masters students can enroll only with permission of instructor and if they have Fundamentals of Neuroscience or equivalent course. | 2       | N          | Tuesday, Wednesday and Friday | 10/19/21   | 12/22/21 | 1:00 PM - 2:30 PM  | In-Person and Remote* | Tues &amp; Fri MSB B619 Wed Cancer Center G1196 |
| DENT 5145Q | Introduction to Structural Biology                | Dr. N. Ramasubbu <a href="mailto:ramasun1@sdm.rutgers.edu">ramasun1@sdm.rutgers.edu</a> 973-972-0704 | Open to Masters and PhD Enrollment Limit 20                                   | 1       | N          | Wednesday    | 09/01/21   | 12/15/21| 10:00 AM - 10:50 AM| Remote Only             | N/A            |
| DENT 5220Q | Methods in Microscopic Imaging                    | Dr. Kabilan Velliyagounder <a href="mailto:velliyka@sdm.rutgers.edu">velliyka@sdm.rutgers.edu</a> 973-972-5051 | Enrollment Limit 12. Open to Masters and PhD students.                         | 2       | N          | Wednesday    | 09/08/21   | 12/22/21| 1:00 PM - 2:50 PM  | Remote Only             | N/A            |
| DENT 7106Q | Dental Histology                                   | Dr. Virgil Muresan, PhD <a href="mailto:muresavi@njms.rutgers.edu">muresavi@njms.rutgers.edu</a> 973-972-2392 | Enrollment limit 15. For 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, Wednesday, Friday | 08/16/21   | 12/01/21| 11:00 AM - 12:50 PM| Remote Only             | Zoom           |</p>
<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Course Director</th>
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<th>End Date</th>
<th>Time</th>
<th>Instruction Mode</th>
<th>Mode</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENT 7109Q</td>
<td>Dental Neuroscience</td>
<td>Dr. Henry Edinger <a href="mailto:edinger@njms.rutgers.edu">edinger@njms.rutgers.edu</a> 973-972-4642 Dr. Amjad Ilyas <a href="mailto:ilyasaa@rutgers.edu">ilyasaa@rutgers.edu</a> 973-972-3580</td>
<td>For approval, contact Dr. Vincent Tsiagbe at <a href="mailto:tsiagbvk@sdm.rutgers.edu">tsiagbvk@sdm.rutgers.edu</a> or 973-972-2612.</td>
<td>4</td>
<td>N</td>
<td>Monday, Wednesday</td>
<td>08/16/21</td>
<td>11/15/21</td>
<td>2:00 PM - 3:50 PM</td>
<td>Remote Only</td>
<td></td>
<td>Canvas Conference</td>
</tr>
<tr>
<td>GSND 5113Q</td>
<td>Gene Expression</td>
<td>Dr. Emanuel Goldman <a href="mailto:egoldman@njms.rutgers.edu">egoldman@njms.rutgers.edu</a> 973-972-4367</td>
<td>Open to Masters and PhD students.</td>
<td>3</td>
<td>N</td>
<td>Tuesday</td>
<td>09/08/21</td>
<td>12/21/21</td>
<td>2:20 PM - 5:00 PM</td>
<td>In-Person and Remote*</td>
<td></td>
<td>ICPH Auditorium</td>
</tr>
<tr>
<td>GSND 5235Q</td>
<td>Principles of Clinical &amp; Translational Research in Oncology</td>
<td>Dr. Robert Wieder <a href="mailto:wiederro@njms.rutgers.edu">wiederro@njms.rutgers.edu</a> 973-972-4871</td>
<td>Open to Masters and PhD students.</td>
<td>2</td>
<td>N</td>
<td>Monday</td>
<td>09/13/21</td>
<td>12/13/21</td>
<td>6:00 PM - 8:15 PM</td>
<td>In-Person and Remote*</td>
<td></td>
<td>Cancer Center G1196</td>
</tr>
<tr>
<td>GSND 5320Q</td>
<td>Pharmacology and Pharmaceutical Marketing</td>
<td>David Segarnick, PhD <a href="mailto:segarnid@njms.rutgers.edu">segarnid@njms.rutgers.edu</a> 973-996-2367</td>
<td>Open to Masters &amp; PhD students. Principles of Pharmacology (PHPY 5020) or Fundamentals of Pharmacology (PHPY N5021) or Principles of Toxicology (PHPY N5225) or permission by the instructor</td>
<td>2</td>
<td>N</td>
<td>Wednesday</td>
<td>09/08/21</td>
<td>11/3/21</td>
<td>7:00 PM - 8:30 PM</td>
<td>Remote Only</td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>GSND 5325Q</td>
<td>Introduction to BioMedical Ethics</td>
<td>Dr. Michael Shapiro <a href="mailto:mes362@njms.rutgers.edu">mes362@njms.rutgers.edu</a> 973-972-6639</td>
<td>Open to Masters and PhD students. (maximum enrollment 30)</td>
<td>2</td>
<td>N</td>
<td>Thursday</td>
<td>09/09/21</td>
<td>12/9/21</td>
<td>10:00 AM - 11:50 AM</td>
<td>In-Person and Remote*</td>
<td></td>
<td>MSB B619</td>
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<tr>
<td>GSND 5335Q</td>
<td>Coronavirus Molecular Biology/Medicine</td>
<td>Dr. Michael Mathews <a href="mailto:mathews@rutgers.edu">mathews@rutgers.edu</a> 973-972-3133</td>
<td>Open to Masters and PhD students.</td>
<td>1</td>
<td>N</td>
<td>Thursday</td>
<td>10/28/21</td>
<td>12/17/21</td>
<td>1:30 PM - 3:30 PM</td>
<td>In-Person and Remote*</td>
<td></td>
<td>MSB B619</td>
</tr>
<tr>
<td>GSND 5501Q</td>
<td>Medical Biochemistry &amp; Genetics</td>
<td>Dr. Carolyn Suzuki <a href="mailto:suzukick@njms.rutgers.edu">suzukick@njms.rutgers.edu</a> 973-972-2155 Dr. Krista Blackwell <a href="mailto:krista.blackwell@rutgers.edu">krista.blackwell@rutgers.edu</a> 973-972-2863</td>
<td>Open to Masters student only. For approval, contact Dr. Krista Blackwell <a href="mailto:krista.blackwell@rutgers.edu">krista.blackwell@rutgers.edu</a></td>
<td>5</td>
<td>N</td>
<td>Monday, Tuesday, Wednesday, Thursday &amp; Friday</td>
<td>08/12/21</td>
<td>9/17/21</td>
<td>9:00 AM - 2:50 PM</td>
<td>In-Person Only</td>
<td></td>
<td>MSB B556</td>
</tr>
</tbody>
</table>
## FALL 2021 MASTERS, CERTIFICATE & NON-MATRICULATED COURSE SCHEDULE

**School of Graduate Studies - Health Science Campus, Newark**

Consult [http://njms.rutgers.edu/sgs/olc/index.php](http://njms.rutgers.edu/sgs/olc/index.php) 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.

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>Instruction Mode</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSND 5505Q</td>
<td>Intro to Physiology, Pharmacology &amp; Epidemiology</td>
<td>Dr. Krista Blackwell</td>
<td>Open to Masters student only. For approval, contact Dr. Krista Blackwell</td>
<td>4</td>
<td>N</td>
<td>Monday, Tuesday, Wednesday, Thursday &amp; Friday</td>
<td>9/20/21</td>
<td>10/11/21</td>
<td>9:00 AM - 2:50 PM</td>
<td>In-Person Only</td>
<td>MSB B556</td>
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<tr>
<td>GSND 5510Q</td>
<td>Medical Hematology/Oncology &amp; Immunology</td>
<td>Dr. Ian Whitehead</td>
<td>Open to Masters student only. For approval, contact Dr. Krista Blackwell</td>
<td>4</td>
<td>N</td>
<td>Monday, Tuesday, Wednesday, Thursday &amp; Friday</td>
<td>10/12/21</td>
<td>11/8/21</td>
<td>9:00 AM - 2:50 PM</td>
<td>In-Person Only</td>
<td>MSB B556</td>
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<tr>
<td>GSND N500A</td>
<td>Fundamentals of Biomedical Sciences (Part A)</td>
<td>Dr. Michael Lea</td>
<td>Open to Masters students only.</td>
<td>3</td>
<td>N</td>
<td>Tuesday</td>
<td>09/07/21</td>
<td>12/21/21</td>
<td>6:00 PM - 8:50 PM</td>
<td>In-Person and Remote*</td>
<td>MSB B552</td>
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<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 &amp; Thursday</td>
<td>10/18/21</td>
<td>12/16/21</td>
<td>6:00 PM - 7:50 PM</td>
<td>In-Person and Remote*</td>
<td>MSB B556</td>
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<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>
<td></td>
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<tr>
<td>MSBS 5130Q</td>
<td>Stem Cell Biology &amp; Applications in Molecular Medicine</td>
<td>Dr. Pranela Rameshwar</td>
<td>Open to Masters and PhD students.</td>
<td>3</td>
<td>N</td>
<td>Monday</td>
<td>09/13/21</td>
<td>12/13/21</td>
<td>6:00 PM - 8:50 PM</td>
<td>In-Person and Remote*</td>
<td>MSB B610</td>
</tr>
<tr>
<td>MSBS 5150Q</td>
<td>Medical Nutrition &amp; Disease</td>
<td>Dr. John Bogden</td>
<td>Enrollment Minimum 12. Enrollment Maximum 36.</td>
<td>2</td>
<td>N</td>
<td>Wednesday</td>
<td>9/22/21</td>
<td>12/15/21</td>
<td>3:00 PM - 5:50 PM</td>
<td>In-Person and Remote*</td>
<td>Cancer Center G1196</td>
</tr>
<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>09/08/21</td>
<td>12/15/21</td>
<td>6:00 PM - 7:50 PM</td>
<td>In-Person and Remote*</td>
<td>MSB B610 except MSB B552 on 9/29/2021</td>
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<tr>
<td>Course #</td>
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<td>Grade Mode</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>09/07/21</td>
<td>12/14/21</td>
<td>4:30 PM - 5:50 PM</td>
<td>Remote Only</td>
<td>N/A</td>
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<tr>
<td>MSBS 593AQ</td>
<td>Research in Biomedical Sciences</td>
<td>Dr. Carol Lutz</td>
<td>Use this course # for the first rotation.</td>
<td>2</td>
<td>N</td>
<td>By Arrangement</td>
<td><a href="http://njms.rutgers.edu/gsbs/olc/mlr/index.php">http://njms.rutgers.edu/gsbs/olc/mlr/index.php</a></td>
<td>By Arrangement</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSBS 7000Q</td>
<td>Masters Thesis Continuation</td>
<td>Dr. Carol Lutz</td>
<td>Prior registration for MSBS 5000Q. Thesis not yet completed. MS Thesis Continuation Registration form is required. Permission of Course Director.</td>
<td>1-9</td>
<td>S/U</td>
<td>By Arrangement</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>NEUR 5200Q</td>
<td>Fundamentals of Neuroscience</td>
<td>Dr. Steve Levison</td>
<td>Open to Masters and PhD students. (See below for required text).</td>
<td>3</td>
<td>N</td>
<td>Thursday</td>
<td>09/02/21</td>
<td>12/18/21</td>
<td>5:00 PM - 7:50 PM</td>
<td>In-Person and Remote*</td>
<td>MSB Room C600 requested</td>
</tr>
<tr>
<td>PATH 5100Q</td>
<td>Cellular Pathology</td>
<td>Dr. Muriel Lambert</td>
<td>Open to Masters and PhD students. (See below for required text).</td>
<td>2</td>
<td>N</td>
<td>Monday &amp; Thursday</td>
<td>10/18/21</td>
<td>12/16/21</td>
<td>4:00 PM - 5:50 PM</td>
<td>In-Person and Remote*</td>
<td>MSB B610</td>
</tr>
<tr>
<td>PATH 511AQ</td>
<td>Immunology A</td>
<td>Dr. Patricia Fitzgerald-Bocarsly</td>
<td>Open to Masters students only. (See below for required text).</td>
<td>2</td>
<td>N</td>
<td>Monday &amp; Wednesday</td>
<td>10/18/21</td>
<td>12/15/21</td>
<td>2:30 PM - 3:50 PM</td>
<td>In-Person and Remote*</td>
<td>MSB B610</td>
</tr>
<tr>
<td>PATH N5209</td>
<td>The Business of Science: Drug Development - From Molecules to Medicines</td>
<td>Dr. Doreen Badheka</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.</td>
<td>3</td>
<td>N</td>
<td>Wednesday</td>
<td>09/01/21</td>
<td>12/8/21</td>
<td>5:00 PM - 7:50 PM</td>
<td>Remote Only</td>
<td>Zoom</td>
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<tr>
<td>PPHY N5021</td>
<td>Fundamentals of Pharmacology</td>
<td>Dr. Lawrence Gaspers</td>
<td>Open to Masters and PhD students.</td>
<td>3</td>
<td>N</td>
<td>Monday</td>
<td>09/13/21</td>
<td>12/13/21</td>
<td>6:00 PM - 8:50 PM</td>
<td>In-Person and Remote*</td>
<td>MSB B552</td>
</tr>
<tr>
<td>PPHY 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>09/09/21</td>
<td>12/09/21</td>
<td>6:00 PM - 8:50 PM</td>
<td>In-Person and Remote*</td>
<td>MSB B552</td>
</tr>
</tbody>
</table>

*Students have an option to attend in-person or remotely.
### FALL 2021 MASTERS, CERTIFICATE & NON-MATRICULATED COURSE SCHEDULE

School of Graduate Studies - Health Science Campus, Newark

Consult [http://njms.rutgers.edu/sgs/olc/index.php](http://njms.rutgers.edu/sgs/olc/index.php) 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.

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

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.

<table>
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<tr>
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Last Update: 8/20/2021 mb