IMPORTANT INFORMATION for students strongly considering Biomedical Engineering:

The undergraduate biomedical engineering major for the College of Engineering has been approved by the State of New York. Complete information about course offerings, affiliation requirements, major requirements and advising resources will be available by the time you arrive on campus for August Orientation. At this point in time, first-year students with a primary interest in BME should follow these considerations regarding fall course pre-enrollment July 8-17. It is important to remember that during the add/drop period in August students will be able to adjust course enrollment after meeting with their faculty advisor and learning more about BME.

Recommended first-year course sequencing:

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>Math 1910 (4 crs)</td>
<td>Math 1920 (4crs)</td>
</tr>
<tr>
<td>Chem 2090 <em>or</em> PHYS 1112 (4 crs)</td>
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<tr>
<td>BIOG 1440 <em>or</em> BIOMG 1350 (3 crs)</td>
<td>BIOG 1500 lab (2 crs)</td>
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<tr>
<td>ENGR 1XXX (3 crs) <em>or</em> CS 1112 (3 crs)</td>
<td>ENGR 1XXX (3 crs) *or CS 1112 (3 crs)</td>
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<tr>
<td>FWS (3 crs)</td>
<td>FWS (3 crs)</td>
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</table>

***Undergraduate students majoring in Biomedical Engineering must earn a minimum of five (5) credits of introductory biology credit before the start of sophomore year in order to progress through the Biomedical Engineering curriculum in four years.

***Advanced placement (AP, GCE and IB credit) can NOT be used to satisfy the introduction to biology requirement for Biomedical Engineering.

***Biomedical Engineering requires students to satisfy the introductory biology requirement by completing college level biology as per follows:

(1) Completing ONE of the following the follow two introductory biology lectures (3 credits each)

   BIOMG 1350, Principles of Cell and Developmental Biology *or*
   BIOG 1440, Introduction to Comparative Physiology*

   *Students may substitute BIOG 1445 (Comparative Physiology, Individualized Instruction-4 credits) in place of BIOG 1440. Students are strongly cautioned that this is a self-paced class, and should consult with Engineering Advising before enrolling.

(2) Completing one semester of BIOG 1500, Investigative Laboratory (2 credits):
When to take Introductory Biology in the Biomedical Engineering (BME) Curriculum:

Students wishing to major in Biomedical Engineering are strongly encouraged to complete the introductory biology requirement shown above during their first year. **PLEASE NOTE:** The course ENGRD 2202 (Transport), an affiliation requirement for BME that must be taken during fall semester of sophomore year, requires prior completion of the introductory biology requirement for BME, as per above (i.e., both lecture and lab are pre-requisites).

- If you are strongly considering Biomedical Engineering and if you did not earn or do not plan to accept advanced placement credit for CHEM 2090 or PHYS 1112, you are encouraged to enroll in either CHEM 2090 or PHYS 1112 (if you have the math pre-requisite, see PHYSICS information) and also one of the two biology lecture courses (as per above) *or* the biology lab during fall semester. Then, plan to take your remaining bio requirement (lecture or lab) with either CHEM 2090 or PHYS 1112 in the spring.

- If you earned and plan to accept advanced credit for Chem 2090 or PHYS 1112, you may want to consider enrolling one of the two biology lecture courses (as per above) *and* the lab during your first semester and then take Chem 2090 or Phys 1112 (whichever you do not have advanced placement for) in the spring.

- If you earned and plan to accept advanced credit for Chem 2090 and PHYS 1112, you are encouraged to enroll in one of the two biology lecture courses (as per above) *and* the lab during your first semester.

If biology lectures or the lab is full during fall course pre-enrollment, you are encouraged to try adding the class again throughout the rest of the pre-enrollment period and again during the Add/Drop period in August. If the class remains full on the first day of classes, we recommend you attend the lecture or lab. The professor will likely give instructions on how to add the class or get on a waitlist.