Entering the STEM Fields at Penn

STEM Areas & Majors

Click on a specific major below to learn more about its curriculum.

<table>
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<tr>
<th>Climate &amp; Environment</th>
<th>Mind, Brain &amp; Cognition</th>
<th>Experimental Sciences</th>
<th>Life Sciences</th>
<th>Physical &amp; Theoretical Sciences</th>
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</thead>
<tbody>
<tr>
<td>Biology (M)</td>
<td>Cognitive Sciences (M)</td>
<td>Biophysics (M)</td>
<td>Biology</td>
<td>Chemistry (M)</td>
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<tr>
<td>Earth &amp; Environmental Science (M)</td>
<td>Neuroscience (M)</td>
<td>Biochemistry (M)</td>
<td>Psychology</td>
<td>Physics (M)</td>
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<tr>
<td>Science (M)</td>
<td>Psychology (M)</td>
<td>Chemistry (M)</td>
<td>Neuroscience</td>
<td>Astrophysics (M)</td>
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<td></td>
<td>Logic, Information, and Computation (M)</td>
<td>Physics (M)</td>
<td>Biophysics (M)</td>
<td>Earth &amp; Environmental Science (M)</td>
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<td>Mathematics (M)</td>
<td>Mathematical Biology (M)</td>
<td>Science (M)</td>
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<td>Computational Biology Psychology (M)</td>
<td>Logic, Information, and Computation (M)</td>
<td>Biochemistry (M)</td>
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</tbody>
</table>

Common STEM Entry Courses

To the right is a chart that shows recommended courses that STEM majors above with significant quantitative (M), chemistry (M), biology (M) and physics (M) requirements should start with. Students should consult with their advisors about their prior experience and exposure in a subject area and their current interests. For example, some things to discuss and take into consideration when determining the correct course to start with include:

- The last course (year and level) that they took
- Math, Bio, Chem and Physics
- Advance Placement (AP) courses or exams (5 is highest) and their approximate score
- What they plan on doing with the sciences (i.e. health professions with humanities major, science major, etc.)

Pre-Health Professions

https://careerservices.upenn.edu/channels/apply-to-health-professions-school/

Note that some courses to the chart on the right in teal meet the minimum level needed for applications to most professional programs in the health professions below. For questions regarding course selection for specific students, please consult with your back-up advisor in the College Office.

- Pre-Medicine
- Pre-Dental
- Pre-Veterinary

Students are encouraged to meet with the Career Services Pre-Health Team for help with their career development.

Research Opportunities

https://www.curl.upenn.edu/

As they enter the STEM fields, students can get involved in a number of research opportunities, which they can discuss with advisors. Students can also view and learn of opportunities through the Center for Undergraduate Research (CURF).