MATH PATHS for **STEM MAJORS**

**Sample majors:** Biology, Biochemistry, Chemistry, Computer Science, Engineering, Information Systems, Math, and Physics

- **Summer Session**
  - Biology (BA) or Information Systems: MATH106*
  - All other STEM majors: MATH106*

- **Fall Semester**
  - MATH155
  - MATH150

- **Subsequent Semesters**
  - Additional math courses specific to intended major

The math "entry point" for new students is determined by the LRC math placement exam score, AP scores, and intended major. Only introductory math courses are shown here – most STEM degree programs will require additional math courses.

For many STEM degrees, students must satisfy requirements for MATH150 **BEFORE** they can take required subject courses in their major. See back page for additional placement information and course details.

MATH PATHS for **ARTS & HUMANITIES, SOCIAL SCIENCES,** and/or **UNDECIDED MAJORS**

- **Sample majors:** Psychology (BS), Economics, Financial Economics
- **Sample majors:** Psychology (BA), Political Science, Sociology, History
- **Sample majors:** Visual Arts, Media & Communication Studies, Philosophy

- **Summer Session**
  - MATH106*

- **Fall Semester**
  - MATH155
  - STAT121
  - MATH100

- **Spring Semester**
  - Math requirement must be completed in spring if not fulfilled in fall.

The math "entry point" for new students majoring in the Arts & Humanities or Social Sciences is determined by the LRC math placement exam score, AP scores, and intended major. **ALL students must complete a math course that fulfills graduation requirements within their first year** at UMBC. See back page for course details.
New freshmen in all majors must complete a math course in their first year at UMBC. Math course requirements vary by major. For some majors, one math course fulfills the graduation requirement. For students pursuing a STEM degree, introductory math courses are pre- or co-requisites that are required for content courses within their major.

**UMBC MATH REQUIREMENTS**

New freshmen in all majors must complete a math course in their first year at UMBC. Math course requirements vary by major. For some majors, one math course fulfills the graduation requirement. For students pursuing a STEM degree, introductory math courses are pre- or co-requisites that are required for content courses within their major.

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**WHAT?**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>MATH106</td>
<td>Algebra &amp; Elementary Functions</td>
</tr>
<tr>
<td>MATH150</td>
<td>Pre-calculus</td>
</tr>
<tr>
<td>MATH151</td>
<td>Calculus and Analytical Geometry I</td>
</tr>
<tr>
<td>MATH155</td>
<td>Applied Calculus</td>
</tr>
<tr>
<td>MATH100</td>
<td>Intro to Contemporary Mathematics</td>
</tr>
<tr>
<td>STAT121</td>
<td>Intro to Statistics for the Social Sciences</td>
</tr>
</tbody>
</table>

**WHO?**

- Students who haven’t had a math course in recent years or those who need to “brush up” on their math skills.
- Students who placed in MATH106, but want to take MATH100, MATH150, MATH155, or STAT121 in the fall.
- Students who did not place into MATH151, but who need MATH151 in the fall to stay on track in their major.
- Students who have not previously satisfied this requirement, or those who need MATH151 as a pre- or co-requisite for a fall science, engineering or math course.
- Students who placed in MATH106, but want to take MATH100, MATH150, MATH155, or STAT121 in the fall.
- Students who have not previously satisfied this requirement, or those who need MATH151 as a pre- or co-requisite for a fall science, engineering or math course.
- Students who did not place into MATH151, but who need MATH151 in the fall to stay on track in their major.

**REQUIREMENTS**

- **All Majors**
  - LRC99 – minimum grade of “C”
  - OR - Milestone level: 2 or 3 on placement exam

- **STEM Majors**
  - MATH106 or MATH106Y – minimum grade of “C”
  - OR - Milestone level: 4 or 5 on placement exam

- **STEM, Arts and Humanities and Social Sciences**
  - MATH150 – minimum grade of “C”
  - OR - Milestone level: 5 on placement exam

- **Arts, Humanities, and Social Sciences**
  - MATH106 or MATH106Y – minimum grade of “C”
  - OR - Milestone level: 4 or 5 on placement exam

*This chart is not intended as a substitute for academic advising. All new students will have an opportunity to discuss course selection with an academic advisor at UMBC’s Summer Orientation. If you have AP credits and/or college level math credits, you should discuss these with an advisor to ensure you understand the requirements and course sequence for your intended major.*

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**Get Started This Summer!**

UMBC’s **Summer Bridge Program** offers MATH106 & MATH150 in a six week summer session. New incoming students in the Summer Bridge Program receive intensive academic support as well as extensive advising during their first year at UMBC. To learn more, go to [umbc.edu/summerbridge](http://umbc.edu/summerbridge).

For more information about UMBC’s introductory math requirements and the Summer Bridge Program, contact Laila Shishineh at lailams@umbc.edu or 410-455-3737.