### Majors by Placement Level

Majors are listed by the math placement level necessary for that major. Students with placement scores below their major, can take prerequisite coursework through MSU to meet the placement requirement and to ensure that the student has the necessary math skills for their area of study. Students with questions should contact their academic advisor or the Academic Advising Center (406) 994-3532.

#### Level 5

<table>
<thead>
<tr>
<th>ACT 27 - SAT 620</th>
<th>New SAT 640 or 32</th>
</tr>
</thead>
<tbody>
<tr>
<td>(03/01/2016 or later)</td>
<td>MPLEX 50</td>
</tr>
</tbody>
</table>

*These majors require at least one of the following courses, all of which require Level 5 Placement: M 171Q, M 165Q, PHSX 220, PHSX 240, EMEC 103 (for ME), EEE 101*

- Biological Engineering
- Chemical Engineering
- Chemistry: Professional
- Civil Engineering
- Computer Engineering: All options
- Computer Science: All options
- Earth Sciences: Geology
- Earth Sciences: Paleontology
- Earth Sciences: Snow Science
- Environmental Sci: Soil & Water Sci
- Electrical Engineering
- Financial Engineering
- Industrial & Mgmt Systems Engineering
- Mathematics: All Options
- Mechanical Engineering
- Mechanical Engineering Tech.
- Physics: All Options

#### Level 4 - Continued

<table>
<thead>
<tr>
<th>ACT 25 - SAT 580</th>
<th>New SAT 600 or 30</th>
</tr>
</thead>
<tbody>
<tr>
<td>(03/01/2016 or later)</td>
<td>MPLEX 40</td>
</tr>
</tbody>
</table>

*These majors require at least one of the following courses, all of which require Level 4 placement: ACTG 201, BMIS 211, CHMY 141, CSCI 127, EBI 101, EECM 100, EMEC 103, PHSX 205*

- Earth Sci: GIS & Planning Analysis
- Economics
- Environmental Sci: Env. Science
- Environmental Sci: Env. Biology
- Env Sci: Geospatial & Env. Analysis
- Env Sciences: Land Rehabilitation
- Food & Nutrition: Nutrition Science
- Hlth, Human Performance: Exercise Sci
- Hlth, Human Performance: Kinesiology
- Microbiology: All Options
- Philosophy: All Options
- Plant Science: Plant Biology
- Pre-Med
- Pre-Veterinary Medicine
- Secondary Ed: Gen Sci Broadfield
- Technology Education: All Options

#### Level 3 - Continued

<table>
<thead>
<tr>
<th>ACT 23 - SAT 540</th>
<th>New SAT 570 or 28.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>(03/01/2016 or later)</td>
<td>MPLEX 30</td>
</tr>
</tbody>
</table>

*These majors require at least one of the following courses, all of which require Level 3 placement: CHMY 121IN, ECNS 101IS, ENSC 245IN, M 121Q, M 132, STAT 216Q*

- Plant Science: Crop Science
- Photonics and Laser Tech (Gallatin College)
- Sustainable Food Systems: All Options

#### Level 3 - M 105Q ONLY

<table>
<thead>
<tr>
<th>ACT 22 - SAT 520</th>
<th>New SAT 550 or 27.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>(March 1, 2016 or later)</td>
<td>MPLEX 30</td>
</tr>
</tbody>
</table>

*Unless noted, these majors accept any Q Core class. Most students take M 105Q.*

- American Studies
- Art: All Options
- Asian Studies
- Associate of Arts (Gallatin College)
- Associate of Science (Gallatin College)
- Aviation (Gallatin College)
- Community Health
- Early Child Ed & Child Services: Child Dev
- English: All Options
- Health Enhancement K-12 Teaching
- Human Dev & Family Sci: All Options
- Film
- History: All Options
- Lib Studies: Global & Multicultural
- Liberal Studies: Quaternion (both options)
- Mod Lang & Lit: French K-12 Teach.
- Mod Lang & Lit: German K-12 Teach.
- Mod Lang & Lit: German Studies
- Mod Lang & Lit: Hispanic Studies
- Mod Lang Lit: Latin Amer, Latino Studies
- Mod Lang & Lit: Spanish K-12 Teach
- Music: All Options
- Political Science
- Photography
- Psychology* prefers M 105
- Secondary Ed: Social Studies Broadfield
- Sociology: All Options

#### Level 4

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- Ag Business: Agribusiness Mgmt
- Ag Business: Farm & Ranch Mgmt
- Animal Science: Science
- Architecture/Environmental Design
- Biological Sci: Conservation Bio
- Biological Sci: Fish Wildlife Mgmt
- Biological Sciences: Organismal Bio
- Biological Sciences: Teaching
- Biotechnology: All Options
- Business: All Options
- Cell Biology & Neurosciences
- Chemistry: Biochemistry
- Chemistry: Teaching
- Construction Engineering Tech
- Construction Management
- Construction Management Tech
- Construction Management: All Options
- Construction Management: Tech.
- Food & Nutrition: Dietetics
- Hospitality Management: All Options
- Liberal Studies: Env. Studies
- Nat Resource Rangeland Eco: All Options
- Nursing

#### Level 3 Majors

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<tr>
<th>ACT 23 - SAT 540</th>
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- Agricultural Education: All Options
- Animal Science: Equine Science
- Animal Sci: Livestock Mgmt. & Industry
- Anthropology
- Early Childhood ED, P-3 (M 132)
- Earth Sciences: Geography
- Elementary Education (M 132)
- Environmental Horticulture: Hort Science
- Env Horticulture: Landscape Des
- Food & Nutrition: Dietetics
- Hospitality Management: All Options
- Liberal Studies: Env. Studies
- Nat Resource Rangeland Eco: All Options
- Nursing

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<th>ACT 22 - SAT 520</th>
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### Business, Health Professions, STEM Fields - Math Requirements Vary by Major - See MSU Catalog for Complete Degree Requirements

<table>
<thead>
<tr>
<th>Level 1</th>
<th>M 065 Pre-Algebra</th>
<th>Either course serves as the prerequisite for Level 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M 085 Pre-Algebra - Mastery Learning</td>
<td></td>
</tr>
<tr>
<td>Level 2</td>
<td>M 096 Survey of Algebra</td>
<td>Either course is prerequisite for Level 3. To fulfill prereq for M 132 or STAT 216Q, student must earn a B or better in M 096 or M 097</td>
</tr>
<tr>
<td></td>
<td>M 097 Survey of Algebra - Mastery Learning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Level 3</td>
<td>M 121 Q College Algebra</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M 132 Numbers &amp; Ops for K-8 Teachers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STAT 216Q Intro to Statistics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other courses requiring Level 3 placement: CHMY 121IN, ECNS 101IS, ENSC 245IN</td>
</tr>
<tr>
<td>Level 4</td>
<td>M 151Q Precalculus</td>
<td>M 151Q is the prerequisite for Level 5</td>
</tr>
<tr>
<td></td>
<td>M 161Q Survey of Calculus</td>
<td>M 161Q is not a prerequisite for Level 5</td>
</tr>
<tr>
<td></td>
<td>Other courses requiring Level 4 placement: ACTG 201, BIOH 185, BMIS 211, CHMY 141, CSCI 127, EBI 100, EMEE 100, EMEC 103 (MET), PHSX 205</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Courses</td>
<td></td>
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<tr>
<td></td>
<td>Level 5</td>
<td>M 165Q Calculus for Technology I</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M 171Q Calculus I</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other courses requiring Level 5 placement: EELE 101, PHSX 220, PHSX 240, EMEC 103 (ME)</td>
</tr>
</tbody>
</table>

### Non-Business, Non-Stem Track - Math Requirements Vary by Major - See MSU Catalog for Complete Degree Requirements

<table>
<thead>
<tr>
<th>Level 1</th>
<th>M 088 Mathematical Literacy</th>
<th>Prerequisite for M 105Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 3</td>
<td>M 105Q Contemporary Mathematics</td>
<td>Can be a prerequisite for STAT 216Q, or PHL 236Q</td>
</tr>
<tr>
<td></td>
<td>PHL 236Q Introduction to Logic</td>
<td>Not a prerequisite for any other math course</td>
</tr>
</tbody>
</table>

Students should confirm the math course(s) required for their degree in the MSU Catalog or in their DegreeWorks profile. Please be sure to talk to your academic advisor about any questions you have. Students can also contact the Academic Advising Center at 406-994-3532.