### Majors by Placement Level

Majors are listed by the math placement level necessary to begin all major courses without taking additional math prerequisites. Students with placement scores below those identified here can still pursue these majors. Students can take prerequisite coursework to ensure that the student has the necessary math skills for their area of study. Students with a placement at or above the noted placement level for their major do not need to take math courses beyond what is required for the major. Students with questions should contact their academic advisor or the Academic Advising Center (406) 994-3532.

#### Level 500
These majors require at least one of the following courses, all of which require Level 500 Placement: M 171Q, M 165Q, PHSX 220, PHSX 240, EMEC 103 (for ME), EELE 101

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

#### Level 400
These majors require at least one of the following courses, all of which require Level 400 placement: ACTG 201, BMIS 211, CHMY 141, CSCI 127, EBI0 101, ECM 100, EMEC 103 (MET), PHL 236Q, PHSX 205

- Earth Sci: GIS & Planning Analysis
- Economics
- Environmental Sci: All Options
- Food & Nutrition: Nutrition Science
- Hlth, Human Performance: Exercise Sci
- Hlth, Human Performance: Kinesiology
- Microbiology: All Options
- Plant Science: Biotechnology
- Plant Science: Plant Biology
- Pre-Med Intake
- Pre-Veterinary Medicine
- Secondary Ed: Gen Sci Broadfield
- Sustainable Food & Bioenergy: Agroecology
- Technology Education: All Options

#### Level 300
These majors require at least one of the following courses, all of which require Level 300 placement: CHMY 121IN (250-290), ECNS 101IS (250-290), EBME 100 (250-290), EGEN 105, ENSC 245IN, M 121Q (& M021/M121Q), M 132, STAT 216Q, PHL 236Q

- 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: All Options
- Food & Nutrition: Dietetics
- Hospitality Management: All Options
- Liberal Studies: Env. Studies
- Nat Resource Rangeland Eco: All Options
- Nursing
- Plant Science: Crop Science
- Photonics and Laser Tech (Gallatin College)
- Ranching Systems
- Sociology: All Options
- SFBS: Crop, Food, Livestock

#### Level 290 - M 105Q ONLY
Unless noted, these majors accept any Q core class. Most students take M 105Q (or M 005/105Q)

- American Studies
- Art: All Options
- Asian Studies
- Associate of Arts (Gallatin College)
- Associate of Science (Gallatin College)
- Aviation (Gallatin College)
- BFA: Integrated Lens-Based Media
- Community Health
- Early Child Ed & Child Services: Child Dev
- English: All Options
- Film
- Health Enhancement K-12 Teaching
- History: All Options
- Human Dev & Family Sci: All Options
- Lib Studies: Global & Multicultural
- Liberal Studies: Quaternity (both options)
- Mod Lang & Lit: French & Francophone
- 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
- Philosophy: All Options
- Political Science
- Psychology
- Secondary Ed: Social Studies Broadfield
## Prerequisites

<table>
<thead>
<tr>
<th>Level 100</th>
<th>Math and Other Courses</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT below 17, SAT below 460</td>
<td>M 063/M 090 Foundation of Math &amp; Intro to Algebra</td>
<td>M 063/M 090 is a prerequisite to M 012/121Q</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level 150</th>
<th>Math and Other Courses</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT 17, SAT 460</td>
<td>M 090 Introductory Algebra</td>
<td>M 090 is prerequisite for M 021/121Q</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level 250</th>
<th>Math and Other Courses</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT 21, SAT 530</td>
<td>M 021/121Q College Algebra</td>
<td>M 021/121Q is prerequisite for Level 400</td>
</tr>
<tr>
<td></td>
<td>CHMY 121IN, ECNS 101IS, EBME 100</td>
<td>Three credits of M 121Q and 2 credits of M 021 CoRequisite support</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level 300</th>
<th>Math and Other Courses</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT 23, SAT 560</td>
<td>M 121Q College Algebra</td>
<td>M 121Q is prerequisite for Level 400</td>
</tr>
<tr>
<td></td>
<td>M 132 Numbers &amp; Ops for K-8 Teachers</td>
<td>M 132 is for ELED &amp; P-3 Teaching only</td>
</tr>
<tr>
<td></td>
<td>STAT 216Q Intro to Statistics</td>
<td>STAT 216Q is not a Level 400 preq</td>
</tr>
<tr>
<td></td>
<td>PHL 236Q Logic</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHMY 121IN, CSCI 107*, EBME 100, ECNS 101IS*, EGEN 105, ENSC 245IN</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level 400</th>
<th>Math and Other Courses</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT 25, SAT 590</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>ACTG 201, BIOH 185, BMIS 211, CHMY 141, CSCI 127, EBIO 100*, ECMH 100, EMEC 100*, EMEC 103 (MET), PHSX 205</td>
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</tr>
</tbody>
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<thead>
<tr>
<th>Level 500</th>
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<tbody>
<tr>
<td>ACT 27+, SAT 640+</td>
<td>M 165Q Calculus for Technology I</td>
<td>Prerequisite for M 166Q</td>
</tr>
<tr>
<td></td>
<td>M 171Q Calculus I</td>
<td>Prerequisite for M 172</td>
</tr>
<tr>
<td></td>
<td>CHMY 151, EBIO 100, EELE 101, PHSX 220, PHSX 240, EMEC 103 (ME)</td>
<td></td>
</tr>
</tbody>
</table>

## Math and Other Courses Notes

- **Level 100**: M 063/M 090 Foundation of Math & Intro to Algebra
  - M 063/M 090 is a prerequisite to M 012/121Q

- **Level 150**: M 090 Introductory Algebra
  - M 090 is prerequisite for M 021/121Q

- **Level 250**: M 021/121Q College Algebra
  - Three credits of M 121Q and 2 credits of M 021 CoRequisite support

- **Level 300**: M 121Q College Algebra
  - M 132 Numbers & Ops for K-8 Teachers
  - STAT 216Q Intro to Statistics, PHL 236Q Logic
  - CHMY 121IN, CSCI 107*, EBME 100, ECNS 101IS*, EGEN 105, ENSC 245IN

- **Level 400**: M 151Q Precalculus
  - M 161Q Survey of Calculus
  - ACTG 201, BIOH 185, BMIS 211, CHMY 141, CSCI 127, EBIO 100*, ECMH 100, EMEC 100*, EMEC 103 (MET), PHSX 205

- **Level 500**: M 165Q Calculus for Technology I
  - M 171Q Calculus I
  - CHMY 151, EBIO 100, EELE 101, PHSX 220, PHSX 240, EMEC 103 (ME)

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

<table>
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<tr>
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</tr>
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<tbody>
<tr>
<td>ACT 17, SAT 460</td>
<td>M 088 Mathematical Literacy</td>
<td>Prerequisite for M 105Q</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level 290</th>
<th>Math and Other Courses</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT 22, SAT 540</td>
<td>M 105Q College Algebra</td>
<td>Can be a prerequisite for STAT 216</td>
</tr>
</tbody>
</table>

*Recommended

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.