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 5
ACT 27 - SAT 640 or 32 - MPLEX 50
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), ELEC 110

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 4 - Continued
ACT 25 - SAT 600 or 30 - MPLEX 40
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, EBIO 101, ECOM 100, EMEC 103, 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 In Take
Pre-Veterinary Medicine
Secondary Ed: Gen Sci Broadfield
Technology Education: All Options

Level 3
ACT 23 - SAT 570 or 28.5 - MPLEX 30
These majors require at least one of the following courses, all of which require Level 3 placement: CHMY 121Q, ECON 101IS, ENSC 245IN, M 121Q, M 132, STAT 216Q

Plant Science: Crop Science
Photronics and Laser Tech (Gallatin College)
Sociology: All Options

Level 3 - M 105Q ONLY
ACT 22 - SAT 550 or 27.5 - MPLEX 30
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)
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
Hospitality: Lodging & Facility
Hospitality: Restaurant Management
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

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 & Neuroscience: Biomed
Chemistry: Biochemistry
Chemistry: Teaching

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: Food Enterprise
Liberal Studies: Env. Studies
Nat Resource Rangeland Eco: All Options
Nursing
### Prerequisites Courses Notes

<table>
<thead>
<tr>
<th>Level 1</th>
<th>Courses</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 1</td>
<td>M 065 Pre-Algebra</td>
<td>Either course serves as prerequisite for Level 2</td>
</tr>
<tr>
<td>M 085 Pre-Algebra - Mastery Learning</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level 2H</th>
<th>Courses</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT 21, SAT 530 or 26.5</td>
<td>M 096 Survey of Algebra</td>
<td>Either course is prerequisite for Level 3.</td>
</tr>
<tr>
<td>M 085 Pre-Algebra - Mastery Learning</td>
<td>M 097 Survey of Algebra - Mastery Learning</td>
<td>To fulfill prereq for M 132 or STAT 216Q, student must earn a B or better in M 096 or M 097</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level 3H</th>
<th>Courses</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT 23, SAT 570 or 28.5</td>
<td>M 121 Q College Algebra</td>
<td>M 121Q is prerequisite for Level 4</td>
</tr>
<tr>
<td>M 132 Numbers &amp; Ops for K-8 Teachers</td>
<td>STAT 216Q</td>
<td>M 132 is for ELED &amp; P-3 Teaching only</td>
</tr>
<tr>
<td>M 096 Survey of Algebra - Mastery Learning</td>
<td>MPLEX 30</td>
<td>STAT 216Q is not a Level 4 prereq</td>
</tr>
<tr>
<td>M 097 Survey of Algebra</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level 4</th>
<th>Courses</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT 25, SAT 600 or 30</td>
<td>M 151Q Precalculus</td>
<td>M 151Q is the prerequisite for Level 5</td>
</tr>
<tr>
<td>M 161Q Survey of Calculus</td>
<td></td>
<td>M 161Q is not a prerequisite for Level 5</td>
</tr>
<tr>
<td>M 132 Numbers &amp; Ops for K-8 Teachers</td>
<td>Other courses requiring Level 4 placement: ACTG 201, BIOH 185, BMIS 211, CHMY 141, CSCI 127, EBIO 100, EMEC 100, EMEC 103 (MET), PHSX 205</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level 5</th>
<th>Courses</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT 27, SAT 640 or 32</td>
<td>M 165Q Calculus for Technology I</td>
<td>Prerequisite for M 166Q</td>
</tr>
<tr>
<td>M 171Q Calculus I</td>
<td></td>
<td>Prerequisite for M 172</td>
</tr>
<tr>
<td>M 096 Survey of Algebra - Mastery Learning</td>
<td>Other courses requiring Level 5 placement: EELE 101, PHSX 220, PHSX 240, EMEC 103 (ME)</td>
<td></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>Courses</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 1</td>
<td>M 088 Mathematical Literacy</td>
<td>Prerequisite for M 105Q</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level 2L</th>
<th>Courses</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT - 17, SAT 460 or 23</td>
<td>M 105Q and M 005 Contemporary Mathematics Co-Requisite</td>
<td>3 credits of Math 105Q and 1 credit of M 005 CoRequisite support</td>
</tr>
<tr>
<td>M 005 Contemporary Mathematics</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level 3L</th>
<th>Courses</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT 22, SAT 550 or 27.5</td>
<td>M 105Q Contemporary Mathematics</td>
<td>Can be a prerequisite for STAT 216Q</td>
</tr>
</tbody>
</table>

M 105Q and M 005 Contemporary Mathematics Co-Requisite

Business, Health Professions, STEM, Some Social Sciences - Requirements Vary by Major - See MSU Catalog for Complete Degree Requirements

<table>
<thead>
<tr>
<th>Prerequisites</th>
<th>Courses</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 1</td>
<td>M 088 Mathematical Literacy</td>
<td>Prerequisite for M 105Q</td>
</tr>
<tr>
<td>Level 2L</td>
<td>M 105Q and M 005 Contemporary Mathematics Co-Requisite</td>
<td>3 credits of Math 105Q and 1 credit of M 005 CoRequisite support</td>
</tr>
<tr>
<td>Level 3L</td>
<td>M 105Q Contemporary Mathematics</td>
<td>Can be a prerequisite for STAT 216Q</td>
</tr>
</tbody>
</table>

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

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.