### MAJORS BY REQUIRED MATH

This document lists the beginning math sequence for each major. Some majors require additional math courses, and some allow different sequences. See MSU catalog for complete degree requirements. Students needing developmental math, who pursue these majors, must follow the M065 path on the flowchart. Students with questions should talk with their academic advisor or an advisor in the Academic Advising Center (406)-994-3532.

<table>
<thead>
<tr>
<th>M 171Q Calculus I and M 172Q: Calculus II</th>
<th>M 161Q Survey of Calculus &amp; STAT 216Q Statistics (also STAT 217)**</th>
<th>M 151Q PreCalculus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Engineering</td>
<td>Agricultural Business: All Options (and STAT 217)**</td>
<td>Earth Sci: GIS &amp; Planning Analysis (also STAT 216 &amp; 217)</td>
</tr>
<tr>
<td>Biomedical Engineering</td>
<td>Animal Science: Science*</td>
<td>Architecture/Environmental Design</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>Biological Sciences: Conservation Biology and Ecology</td>
<td>Tech. Ed: Industrial Tech (also M 165 or STAT 216)</td>
</tr>
<tr>
<td>Chemistry: Professional</td>
<td>Biological Sciences: Fish &amp; Wildlife Mgmt*</td>
<td>Technology Ed: Broadfield Teaching</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>Biological Sciences: Organismal Biology*</td>
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<tr>
<td>Computer Engineering</td>
<td>Biological Sciences: Teaching*</td>
<td></td>
</tr>
<tr>
<td>Computer Science: Interdisciplinary</td>
<td>Biotechnology: Animal Systems*</td>
<td></td>
</tr>
<tr>
<td>Computer Science: Professional</td>
<td>Biotechnology: Microbial Systems*</td>
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</tr>
<tr>
<td>Earth Sciences: Geology</td>
<td>Biotechnology: Plant Systems Option*</td>
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</tr>
<tr>
<td>Earth Sciences: Paleontology</td>
<td>Business: All Options</td>
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</tr>
<tr>
<td>Earth Sciences: Snow Science</td>
<td>Cell Biology &amp; Neuroscience: Biomedical Science</td>
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<tr>
<td>Electrical Engineering</td>
<td>Chemistry: Biochemistry</td>
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<tr>
<td>Environmental Engineering</td>
<td>Economics** (and STAT 217)</td>
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<tr>
<td>Financial Engineering</td>
<td>Environmental Sciences: Env. Sci Option*</td>
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</tr>
<tr>
<td>Industrial &amp; Management Systems Engineering</td>
<td>Environmental Sciences: Env. Biology Option*</td>
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</tr>
<tr>
<td>Mathematics: Applied Mathematics</td>
<td>Environmental Sciences: Geospatial &amp; Env. Analysis Opt*</td>
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</tr>
<tr>
<td>Mathematics: Mathematics</td>
<td>Environmental Sciences Land Rehabilitation Option*</td>
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</tr>
<tr>
<td>Mathematics: Statistics</td>
<td>Environmental Sciences: Soil &amp; Water Science</td>
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</tr>
<tr>
<td>Mathematics: Teaching</td>
<td>Food &amp; Nutrition: Nutrition Science</td>
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<tr>
<td>Mechanical Engineering</td>
<td>Hlth &amp; Human Perform: Exercise Sci</td>
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</tr>
<tr>
<td>Physics: Interdisciplinary</td>
<td>Hlth &amp; Human Perform: Kinesiology</td>
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<tr>
<td>Physics: Professional</td>
<td>Microbiology: Environmental Health</td>
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</tr>
<tr>
<td>Physics: Teaching</td>
<td>Microbiology: Environmental Micro Track (see advisor)</td>
<td></td>
</tr>
<tr>
<td>M 165Q Calc for Tech I and M 166Q Calc for Tech II</td>
<td>Microbiology: Micro Option</td>
<td></td>
</tr>
<tr>
<td>Construction Engineering Technology (also M 165 &amp; M 166)</td>
<td>Microbiology: PreMed Track</td>
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</tr>
<tr>
<td>Mechanical Engineering Technology</td>
<td>Plant Science: Plant Biology Option*</td>
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</tr>
<tr>
<td>Computer Science: Arts (and STAT 216)</td>
<td>Pre-Med Intake (not nursing or pharmacy)</td>
<td></td>
</tr>
<tr>
<td>M 161Q Survey of Calculus</td>
<td>Pre-Veterinary Medicine</td>
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<tr>
<td>Chemistry: Teaching (and M 151Q)</td>
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<tr>
<td>Secondary Ed: General Science Broadfield</td>
<td>**STAT 216 or BIOB 318</td>
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<td></td>
<td>**M 161 or M 171</td>
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</tr>
</tbody>
</table>

**STAT 216 or BIOB 318**

### PHL 236Q - Logic

Philosophy: All Options
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### M 121Q College Algebra
- Environmental Horticulture: Landscape Design
- Photonics and Laser Tech (Gallatin College)

### M 121Q College Algebra & BIOB 318 Biometry
- Agricultural Education: all options

### M 132 Numbers & Operations and M 133Q Geo & Measurement
- Elementary Education
- Early Childhood Education, P-3 Option

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## M 105Q OR ANY Q CORE MATH COURSE - ONE COURSE ONLY (unless otherwise noted)

Students needing developmental math whose major requires M 105Q Contemporary Mathematics (formerly M 145Q), should take M 088 Mathematical Literacy in place of the M 065 - M 096 sequence. Please see the MSU catalog for complete degree requirements. Students with questions should talk with their academic advisor or an advisor in the Academic Advising Center (406)-994-3532.

- American Studies
- English: Literature
- English: Teaching
- Art: Art Education K-12
- English: Writing
- Art: Art History
- Health Enhancement K-12 Teaching
- Art: Liberal Arts - Studio
- Human Development and Family Science
- Art: Graphic Design
- Human Development & Family Science Teaching
- Art: Studio Arts
- Film
- Asian Studies
- History
- Associate of Arts/Associate of Science (Gallatin College)
- History: Science-Env-Tech-Society Option (SETS)
- Aviation (Gallatin College)
- History: Teaching
- Community Health
- Integrated Lens-Based Media
- Design Drafting Technology (Gallatin College)
- Liberal Studies: Global & Multicultural
- Early Childhood Educ & Child Services: Child Development
- Liberal Studies: Quaternity (both options)
- Modern Lang & Lit: French K-12 Teaching
- Modern Lang & Lit: French and Francophone Studies
- Modern Lang & Lit: German K-12 Teaching
- Modern Lang & Lit: German Studies
- Modern Lang & Lit: Hispanic Studies
- Modern Lang & Lit: Latin American & Latino Studies
- Modern Lang & Lit: Spanish K-12 Teaching

Music
- Music Education
- Music Technology
- Political Science
- Photography
- Psychology
- Secondary Ed: Social Studies Broadfield

Prepared by the Academic Advising Center: 406-994-3532

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