## 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 M063 path on the flowchart. Please see the Math Flowchart for course prerequisites for all math courses. Students with questions should talk with their academic advisor or an advisor in the Academic Advising Center (406)-994-3532.

### M 171Q Calculus I and M 172Q: Calculus II
- Biological Engineering
- Biomedical Engineering
- Chemical Engineering
- Chemistry: Professional
- Civil Engineering
- Computer Engineering
- Computer Science: Interdisciplinary
- Computer Science: Professional
- Earth Sciences: Geology
- Earth Sciences: Paleontology
- Earth Sciences: Snow Science
- Electrical Engineering
- Environmental Engineering
- Financial Engineering
- Industrial & Management Systems Engineering
- Mathematics: Applied Mathematics
- Mathematics: Mathematics
- Mathematics: Statistics
- Mathematics: Teaching
- Mechanical Engineering
- Physics: Interdisciplinary
- Physics: Professional
- Physics: Teaching

### M 161Q Survey of Calculus & STAT 216Q Statistics
- Agricultural Business: All Options (and STAT 217)**
- Animal Science: Science*
- Biological Sciences: Conservation Biology and Ecology
- Biological Sciences: Fish & Wildlife Mgmt*
- Biological Sciences: Organismal Biology*
- Biological Sciences: Teaching*
- Biotechnology: Animal Systems*
- Biotechnology: Microbial Systems*
- Biotechnology: Plant Systems Option*
- Business: All Options
- Cell Biology & Neuroscience: Biomedical Science
- Chemistry: Biochemistry
- Economics** (and STAT 217)
- Environmental Sciences: Environ. Science
- Environmental Sciences: Environ. Biology Option*
- Environmental Sciences: Geospatial & Env. Analysis
- Environmental Sciences: Land Rehabilitation Option*
- Environmental Sciences: Soil & Water Science
- Food & Nutrition: Nutrition Science
- Hlth & Human Perform: Exercise Sci
- Hlth & Human Perform: Kinesiology
- Microbiology: Environmental Health
- Microbiology: Environmental Micro Track (see advisor)
- Microbiology: Micro Option
- Microbiology: PreMed Track
- Plant Science: Plant Biology Option*
- Pre-Med Intake (not nursing or pharmacy)
- Pre-Veterinary Medicine

*STAT 216 or BIOB 318
**M 161 or M 171

### M 151Q PreCalculus
- Earth Sci: GIS & Planning Analysis (also STAT 216 & 217)
- Architecture/Environmental Design
- Tech. Ed: Industrial Tech (also M 165 or STAT 216)
- Technology Ed: Broadfield Teaching

### STAT 216Q Statistics
- Animal Science: Equine Science
- Animal Science: Livestock Mgmt. & Indust.
- Anthropology
- Earth Sciences: Geography (and STAT 217)
- Liberal Studies: Environmental Studies
- Microbiology: Medical Lab Science Option
- Nat Res & Rangeland Ecology - all options *
- Ranching Systems
- Sociology: All Options
- Sust Food & Bioenergy Sys: Sust. Livestock Production

### M 121Q College Algebra & STAT 216Q Statistics
- Environmental Horticulture: Horticulture Science*
- Hospitality Mgmt: All options
- Food & Nutrition: Dietetics
- Nursing
- Plant Science: Crop Science Option*
- SFBS: Agroecology Option*
- SFBS: Sustainable Crop Production*
- SFBS: Sustainable Food Systems

### PHL 236Q - Logic
- Philosophy: All Options

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*STAT 216 or BIOB 318
**M 161 or M 171
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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 063 - M 096 sequence. Please see the Math Flowchart for course prerequisites for all math courses. 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.

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<td>Secondary Ed: Social Studies Broadfield</td>
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</tbody>
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Prepared by the Academic Advising Center: 406-994-3532

May-22