

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, EBIO 101, ECHM 100, EMEC 100, EMEC 103 (MET), M 151Q, M 161Q, PHSX 205

Ag Business: All Options
 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

Level 400 - Continued

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, EBIO 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

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

Prerequisites	Math and Other Courses	Notes
Level 100 ACT below 17, SAT below 460	M 063/M 090 Foundation of Math & Intro to Algebra	M 063/M 090 is a prerequisite to M 012/121Q
Level 150 ACT 17, SAT 460	M 090 Introductory Algebra	M 090 is prerequisite for M 021/121Q M 090 is not a prerequisite for M 121Q
Level 250 ACT 21, SAT 530	M 021/121Q College Algebra CHMY 121IN, ECNS 101IS, EBME 100	M 021/121Q is prerequisite for Level 400 Three credits of M 121Q and 2 credits of M 021 CoRequisite support
Level 300 ACT 23, SAT 560	M 121 Q 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	M 121Q is prerequisite for Level 400 M 132 is for ELED & P-3 Teaching only STAT 216Q is not a Level 400 prereq
Level 400 ACT 25, SAT 590	M 151Q Precalculus M 161Q Survey of Calculus ACTG 201, BIOH 185, BMIS 211, CHMY 141, CSCI 127, EBIO 100*, ECHM 100, EMEC 100*, EMEC 103 (MET), PHSX 205	M 151Q is the prerequisite for Level 5 M 161Q is not a prerequisite for Level 5
Level 500 ACT 27+, SAT 640+	M 165Q Calculus for Technology I M 171Q Calculus I CHMY 151, EBIO 100, EELE 101, PHSX 220, PHSX 240, EMEC 103 (ME)	Prerequisite for M 166Q Prerequisite for M 172

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

Prerequisites	Courses	Notes
Level 100	M 088 Mathematical Literacy	Prerequisite for M 105Q
Level 150 ACT 17, SAT 460	M 005/105Q Contemporary Mathematics Co-Requisite	3 credits of Math 105Q and 1 credit of M 005 CoRequisite support
Level 290 ACT 22, SAT 540	M 105Q College Algebra	Can be a prerequisite for STAT 216

*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.