

Mathematics Applied Area/Pre-MBA

The following guide is intended to assist a student with an Associate's degree in completing a Bachelor's degree in an efficient manner. For such a student, there will be no University Studies requirements, but there may still be requirements within the minor and/or prerequisite requirements for courses within the minor. In addition, students who have not taken ECO 230, ECO 231 as part of their Associate's degree will need to take them in addition to the coursework listed below. For a complete and accurate analysis, the student should schedule an advising session with the department chair.

Programs in Mathematics all require completion of Calculus II before the student can begin to take more than one Mathematics course in a semester. Thus, it will be most efficient if some of the hours within the student's Associate's degree are directed towards requirements of the program. When replacing several MSU courses by courses from a two-year college or another university, be careful to note that the total number of hours is still at least 120 hours and that the number of hours of coursework at or above the 300 level is still at least 42 hours. Courses transferring from a 2-year college **can not** count toward the number of hours of coursework at or above the 300 level, even when the transferred course is counted as the equivalent of a 300-level MSU course.

When known, the KCTCS equivalent course is listed in brackets after the MSU course.

Beginning in MAT 309 Calculus III with Associate's degree completed

First Year

First Semester

MAT 100T.....1 hr
MAT 309 [MAT 275]..4 hrs
MAT LimElec†.....3 hrs
Comp. Prog*.....3 hrs
Area°°.....3 hrs
Semester Total.....14 hrs

Second Semester

MAT 312.....3 hrs
MAT 335.....3 hrs
MAT LimElec†...3 hrs
Area°°.....3 hrs
Area°°.....3 hrs
Semester Total....15 hrs

Second Year

First Semester

MAT 540 (Fall) 4 hrs
MAT LimElec† 3 hrs
FreeElective†....3 hrs
Area°°.....3 hrs
Area°°.....3 hrs
Semester Total....16 hrs

Second Semester

MAT 565 (Spring)..4 hrs
MAT LimElec†.....3 hrs
Area°°.....3 hrs
Area°°.....3 hrs
Area°°.....3 hrs
Semester Total.....16 hrs

Beginning in MAT 308 Calculus II with Associate's degree completed

First Year

First Semester

MAT 100T.....1 hr
MAT 308 [MAT 185]..5 hrs
Area°°.....3 hrs
Area°°.....3 hrs
Semester Total.....12 hrs

Second Year

First Semester

MAT 540 (Fall) ..4 hrs
MAT 335.....3 hrs
MAT LimElec†...3 hrs
Area°°.....3 hrs
Semester Total....13 hrs

Third Year

First semester

MAT LimElec† 3 hrs
MAT LimElec† 3 hrs
Area°°.....3 hrs
Area°°.....3 hrs
Semester Total....12 hrs

Second Semester

MAT 309 [MAT 275]..4 hrs
MAT 312.....3 hrs
Comp. Prog*.....3 hrs
Area°°.....3 hrs
Semester Total.....13 hrs

Second Semester

MAT 565 (Spring) 4 hrs
MAT LimElec†.....3 hrs
Area°°.....3 hrs
Area°°.....3 hrs
Semester Total.....13 hrs

Beginning in MAT 308 Calculus II with Associate's degree completed (unadvisedly compressed)

First Year

First Semester

MAT 100T.....1 hr
 MAT 308 [MAT 185]..5 hrs
 Comp. Prog*.....3 hrs
 Area^{oo}.....3 hrs
 Area^{oo}.....3 hrs
Semester Total.....15 hrs

Second Semester

MAT 309 [MAT 275]..4 hrs
 MAT 312.....3 hrs
 MAT LimElec†.....3 hrs
 Area^{oo}.....3 hrs
 Area^{oo}.....3 hrs
Semester Total.....16 hrs

Second Year

First Semester

MAT 540 (Fall) 4 hrs
 MAT LimElec† 3 hrs
 MAT LimElec† 3 hrs
 Area^{oo}.....3 hrs
 Area^{oo}.....3 hrs
Semester Total....16 hrs

Second Semester

MAT 335.....3 hrs
 MAT 565 (Spring)..4 hrs
 MAT LimElec†.....3 hrs
 Area^{oo}.....3 hrs
 Area^{oo}.....3 hrs
Semester Total.....16 hrs

Beginning in MAT 250 Calculus I with Associate's degree completed

First Year

First Semester

MAT 100T.....1 hr
 (MAT 135 [STA 220]..4 hrs)
 MAT 250.....5 hrs
 Area^{oo}.....3 hrs
 Area^{oo}.....3 hrs
Semester Total.....(16 hrs)

Second Semester

MAT 308 [MAT 185]..5 hrs
 Comp. Prog*.....3 hrs
 Area^{oo}.....3 hrs
 Area^{oo}.....3 hrs
Semester Total.....14 hrs

Second Year

First Semester

MAT 309 [MAT 275]..4 hrs
 MAT 312.....3 hrs
 MAT LimElec†.....3 hrs
 Comp. Prog*.....3 hrs
 Area^{oo}.....3 hrs
Semester Total.....16 hrs

Second Semester

MAT 335.....3 hrs
 MAT 565 (Spring) 4 hrs
 MAT LimElec†.....3 hrs
 MAT LimElec†.....3 hrs
 Area^{oo}.....3 hrs
Semester Total 16 hrs

Third Year

First semester

MAT 540 (Fall) 4 hrs
 MAT LimElec† 3 hrs
 Area^{oo}.....3 hrs
 Area^{oo}.....3 hrs
Semester Total....13 hrs

MAT 135 is not required for the Area, but allows one to take MAT 565 early and graduate one semester early.

*The computer programming course can be chosen from among CSC 145, CSC 232 [CIS 148 or CIT 148], CSC 235, EGR 140.

†These four courses must be chosen from MAT 338 [MAT 285] and MAT courses at or above the 400 level.

^{oo}These courses must include: ACC 200 [ACC 201], ACC 201 [ACC 202], BUS 355, CSC 199 [CIS 100, CIT 105, CPU 150], FIN 330, MGT 350, MGT 443, MKT 360.

If not already transferred in, students will also have to take ECO 230 [ECO 202] and ECO 231 [ECO 201 or ECO 260].

††Free Electives could be any course that the student has the prerequisites to take, and is needed to reach the 120 hours needed to graduate.

Additional transferred credits, prerequisite requirements, or changes in course offerings and schedules might require you to take courses in a different semester than listed.

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|--|---|--|
| <input type="checkbox"/> 2.0 Cumulative GPA | <input type="checkbox"/> 2.0 GPA in courses taken at MSU | <input type="checkbox"/> 2.0 GPA in area, majors, minors |
| <input type="checkbox"/> 2.0 GPA in courses taken at MSU in area, majors, minors | <input type="checkbox"/> Minimum of 120 earned hours (exclusive of non-degree credit) | |
| <input type="checkbox"/> Minimum of 40 earned hours in residence at MSU | <input type="checkbox"/> 20 of the last 32 hours earned in residence at MSU | |
| <input type="checkbox"/> Minimum of 42 upper-level hours (at least 300 level) earned at a 4-year institution | | |