## **Mathematics Major**

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, some of the coursework for the minor might be 4 and 5 credit courses, reducing the required coursework for the minor from 7 courses to 6. 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 after Associate's degree \*\*

First Year	Second Semester	Second Year	Second Semester
First Semester		First Semester	
MAT 100T1 hr	MAT 3123 hrs	MAT 540 (Fall) 4 hrs	MAT LimElec†3 hrs
MAT 309 [MAT 275]4 hrs	MAT 3353 hrs	MAT LimElec† 3 hrs	MAT LimElec†3 hrs
MAT LimElec†3 hrs	MAT LimElec† 3 hrs	FreeElective3 hrs	Minor3 hrs
Comp. Prog*3 hrs	Minor3 hrs	Minor3 hrs	Minor3 hrs
Minor3 hrs	Minor3 hrs	Minor 3 hrs	FreeElective††3 hrs
Semester Total14 hrs	Semester Total15 hrs	Semester Total16 hrs	Semester Total 15 hrs

## Beginning in MAT 308 Calculus II after Associate's degree

First Year	Second Year	Third Year	
First Semester First Semester		First semester	
MAT 100T1 hr	MAT 540 (Fall) 4 hrs	MAT LimElec† 3 hrs	
MAT 308 [MAT 185]5 hrs	MAT 3353 hrs	MAT LimElec† 3 hrs	
Minor3 hrs	MAT LimElec†3 hrs	Minor3 hrs	
Minor3 hrs	Minor3 hrs	FreeElective††3 hrs	
Semester Total12 hrs	Semester Total13 hrs	Semester Total12 hrs	
Second Semester	Second Semester	Warning: With some minors,	
MAT 309 [MAT 275]4 hrs	MAT LimElec†3 hrs	it might not be possible to take	
MAT 3123 hrs MAT LimElec†3 hrs		two concurrent courses without	
Comp. Prog*3 hrs	Minor3 hrs	first fulfilling prerequisites.	
Minor3 hrs	Minor3 hrs		
Semester Total13 hrs	Semester Total 12 hrs		

## Beginning in MAT 308 Calculus II after Associate's degree (unadvisedly compressed)

First Year First Semester MAT 100T	Second Semester MAT 309 [MAT 275]4 hrs MAT 3123 hrs MAT LimElec†3 hrs Minor3 hrs Minor	Second Year First Semester MAT 540 (Fall) 4 hrs MAT LimElec† 3 hrs MAT LimElec† 3 hrs Minor	Second Semester MAT 3353 hrs MAT LimElec†3 hrs MAT LimElec†3 hrs Minor3 hrs Minor3 hrs Semester Total 15 hrs				
Beginning in MAT 250 Calculus I after Associate's degree							
First Year First Semester  MAT 100T	MATES MATES MATES MINIOR SEMENTS SEMENTS MESS MESS MESS MESS MESS MESS MESS ME	Second Year First Semester 3 309 [MAT 275]4 hrs 3 12	Third Year First semester MAT 540 (Fall) 4 hrs MAT LimElec† 3 hrs MAT LimElec† 3 hrs Minor				
*The computer programming course can be chosen from among CSC 145, CSC 232 [CIS 148 or CIT 148], CSC 235, EGR 140.  †These five courses must satisfy:  One of MAT 513, MAT 516, MAT 525 All are offered in Fall only. MAT 516 is offered in the Falls of odd-numbered years. One of MAT 442, MAT 506, MAT 524, MAT 541. Most are offered in Spring only. MAT 506 is offered in the Falls of odd-numbered years.  Three more course chosen from MAT 338 [MAT 285] and MAT courses at or above the 400 level.  **At least 13 hours of the non-mathematics coursework must be at the 300 level or above to meet MSU graduation requirements.  ††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.  2.0 Cumulative GPA							