

Mathematics Major Check-Off Form: Applied and Pure Mathematics BS

(Major Declared *Spring 2020 and Thereafter*)

Name:	
Student ID #:	Expected Graduation (month & year):

- C average (2.0) required in courses fulfilling the Mathematics majors.
- No requirement for the Mathematics major (BA or BS) may be taken P/F
- At least **four** Mathematics courses numbered 300s or more must be taken at UMB.
- **Capstone requirement** may be met through any of the courses with numbers between 420-499

Required Core Math Courses:

Sem	Grade	Course	Sem	Grade	Course
		Math 140 – Calculus I			Math 291 – Mathematical Software
		Math 141 – Calculus II			Math 314 – Intro to Proofs
		Math 242 – Multivariable & Vector Calc			Math 345 – Prob & Stats
		Math 260 – Linear Algebra			Physics 113 – Fundamentals of Physics I
		Math 265 – Discrete Structures in Math			CS 110 – Intro to Computing
		Math 270 – Applied ODEs			

Concentration Requirements:

Electives have to be chosen from Math 300+ courses.

Sem.	Grade	Course
		Math 358 – Complex Analysis
		Math 360 – Abstract Algebra I
		Math 361 – Abstract Algebra II
		Math 450 – Real Analysis
		Math Elective #1
		Math Elective #2

Required Science Courses: *three science courses (excluding Physics 113 and 114 and CS 110)*

For the BS degree you must take **four** science courses INCLUDING Physics 114. One of these courses can be a lab. The courses have to be offered by Biology, Chemistry, Computer Science, Engineering or Physics Department and **MUST** be required for a major in the program offered by the respective department.

Sem	Grade	Course	Sem	Grade	Course
		Physics 114 - Fundamentals of Physics II			

***Advisors:** Please release the advising hold at the end of the advising session if you feel the student is ready to register. Navigate to “Advising Center” --> “Student Summary All Terms (UM)” --> “⊗” symbol on top of the page --> “ADV” in the holds list --> Release. If the student shows math as their additional major (AM), ensure that the student see’s their primary major’s advisor to release the hold. If you have any questions, please contact math@umb.edu.