MATHEMATICS-APPLIED EMPHASIS (STARTING IN MTH 201)

BACHELOR OF ARTS OR BACHELOR OF SCIENCE DEGREE

THIS IS A **GENERAL** CURRICULUM GUIDE AND IS NOT APPLICABLE TO EVERY STUDENT. IT IS IMPORTANT TO MEET WITH YOUR ADVISOR.

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* The block tuition rate is 12-15 credits. You will pay additional tuition for any credits over 15.

¹Students who self-place into WRT 120 should take this course in the fall semester and then take WRT 130 in the winter semester of their first year. Students who self-place into WRT 150 can take it either semester during their first year. Students will not need to take WRT 150 if they have earned credit for the course through AP/Dual Enrollment. A grade of C or better is required in WRT 130 or 150 in order to satisfy the WRT requirement at GVSU.

² Elective refers to any course to help you earn the required 120 credits to graduate.

³ Students must complete a total of two courses with an SWS attribute.

It is imperative to meet with your faculty advisor and an advisor in the CLAS Academic Advising Center regularly.

The CLAS Academic Advising Center is located in C-1-140 MAK, 616-331-8585.

⁴ Mathematics students must complete a total of 13 courses in Math. These electives are listed on the back.

⁵ For prior engineering majors, MTH 302 can replace MTH 204 and MTH 304 with one additional course needed upon approval from advisor.

⁶ For CIS/MTH double majors or prior CIS majors, 225 and 325 together count for 210 & 315 upon approval from advisor.

Degree Requirements

Mathematics students can pursue a Bachelor of Arts or Bachelor of Science degree. Students who wish to obtain a BA must fulfill 3rd semester proficiency in a foreign language (201 level). The BS requirements are incorporated into the major requirements and include MTH 201, MTH 202, and STA 312.

To earn a degree from GVSU, all students must complete the following: 120 total credits, all major/minor requirements, all general education requirements, at least 58 credits from a 4-year institution, and the last 30 credits of the degree completed through GVSU.

Declaring the Mathematics Major:

- 1. Log into myBanner from the GVSU homepage
- 2. Once logged in, select "Student," "Student Records," and then "Change Major"
- 3. Click on the "Change Major 1/Program" box
- 4. Click on the down arrow in the box next to "New Major 1/Program"
- 5. From here scroll down and find "Mathematics Applied." There are two options BA or BS. Click on the option you prefer.
- 6. Click "Submit" and then click "Change to New Program"

General Education Overlap

General Education Categories fulfilled by the Mathematics Major: Mathematical Sciences: MTH 201

Additional Courses				
Choose from the following list for a total of 13 courses in mathematics: at least one must be 400-level MTH class, and at most one from this list can				
have a non-MTH prefix.				
(MTH 300 Vector Analysis) OR (MTH 401 Math for the Physical Sciences)	MTH 441 Topology			
MTH 315 Discrete Mathematics	MTH 450 Modern Algebra II			
MTH 402 Complex Variables	MTH 465 Automata and Theory of Computation			
MTH 406 Linear Algebra III	MTH 496 Senior Thesis			
MTH 408 Real Analysis I	MTH 498 (if MTH 490 is taken as capstone)			
	STA 412 Mathematical Statistics I (Can only count in one place)			
With unit head permission: MTH 380, 399, 480 and 499				
Courses not applicable as Math electives are: MTH 312, 322, 323, 324, 3	25 ⁶ , 329, 331, 386, 409, 431, and 495.			

MTH Cognate Courses Required

CIS 161 Computational Science

OR

CIS 162 Computer Science I

And

STA 216 Intermediate Applied Statistics

OR

STA 312 Probability and Statistics

OR

STA 412 Mathematical Statistics I (Can only count in one place)