## **MAJOR IN MATHEMATICS**

## **Theoretical Mathematics**

Catalog Year: 2023-2024

Student Name:	Student G#::		
Email:			
Course Requirements:			
Course	Credits	Term	Grade
MTH 201	4		
MTH 202	4		
MTH 203	4		
MTH 204 <sup>3</sup>	3		
MTH 205	3		
MTH 210 <sup>4</sup>	4		
MTH 350	3		
MTH 408	3		
MTH 495 or 496	3		
Additional Mathematics Courses Take additional courses from the fol At least one of the additional courses	s must be at the 400-level MTH cla		
Take additional courses from the fol At least one of the additional courses At least 12 courses total must be in r	s must be at the 400-level MTH cla	ass:	5, 498, STA 412 <sup>2</sup>
Take additional courses from the fol At least one of the additional courses At least 12 courses total must be in r	s must be at the 400-level MTH clanath (MTH): $\Box$	ass:	5, 498, STA 412 <sup>2</sup> Grade
Take additional courses from the fol At least one of the additional courses At least 12 courses total must be in r MTH (300 or 401), 304 <sup>3</sup> , 305, 315 <sup>4</sup>	s must be at the 400-level MTH clamath (MTH): $\Box$ 4, 360, 402, 405, 406, 409, 431, 441, 4	nss: □ 50, 465, 495, 496	
Take additional courses from the fol At least one of the additional courses At least 12 courses total must be in r MTH (300 or 401), 304 <sup>3</sup> , 305, 315 <sup>4</sup>	s must be at the 400-level MTH clamath (MTH): $\Box$ 4, 360, 402, 405, 406, 409, 431, 441, 4	nss: □ 50, 465, 495, 496	
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Take additional courses from the fol At least one of the additional courses At least 12 courses total must be in r MTH (300 or 401), 304 <sup>3</sup> , 305, 315 <sup>3</sup> Course  Course  Course  Course  CIS 161 or 162 <sup>1</sup>	s must be at the 400-level MTH clamath (MTH):   4, 360, 402, 405, 406, 409, 431, 441, 4  Credits	ss:   50, 465, 495, 496  Term	Grade
Cognate Courses  Course  Cours	s must be at the 400-level MTH clamath (MTH):   4, 360, 402, 405, 406, 409, 431, 441, 4  Credits  Credits  3/4	ss:   50, 465, 495, 496  Term	Grade
Take additional courses from the fol At least one of the additional courses At least 12 courses total must be in r MTH (300 or 401), 304 <sup>3</sup> , 305, 315 <sup>3</sup> Course  Course  Course  Course  CIS 161 or 162 <sup>1</sup>	s must be at the 400-level MTH clamath (MTH):  4, 360, 402, 405, 406, 409, 431, 441, 4  Credits  Credits  3/4  3	Term  Term	Grade

## Other Notes:

2.0+ GPA in major yes no Degree: BA BS

- Completion of MTH 201, 202, & STA 312 satisfies the BS degree requirement. For a BA, students must also complete the foreign language requirement.
- Students considering graduate school are encouraged to take 450 and 409 and to consult with an advisor
- Some course substitutions are possible in specific circumstances or with approval by the chair. These can be found on the Math Policies website: <a href="http://www.gvsu.edu/mthpolicies/">http://www.gvsu.edu/mthpolicies/</a> under "Students & Curriculum".

<sup>&</sup>lt;sup>1</sup> Choose CIS 162 if you're interested in a CS minor, choose 161 if you are leaning more towards data science or do not have a strong preference for either route.

<sup>&</sup>lt;sup>2</sup> STA 412 may not count as both cognate and elective.

<sup>&</sup>lt;sup>3</sup>For prior engineering majors, MTH 302 can replace MTH 204 and MTH 304 with one additional course needed upon approval from advisor.

<sup>&</sup>lt;sup>4</sup>For CIS/MTH double majors or prior CIS majors, 225 and 325 together count for 210 & 315 upon approval from advisor.