

MATHEMATICS-EDUCATION 5-12 (STARTING IN MTH 201)

BACHELOR OF ARTS OR BACHELOR OF SCIENCE

THIS IS A **GENERAL** CURRICULUM GUIDE AND IS NOT APPLICABLE TO EVERY STUDENT. IT IS IMPORTANT TO MEET WITH YOUR ADVISOR.**Both your cumulative and major GPAs must be at least 2.7 to be registered for the Teacher Apprenticeship courses and corresponding field placement.**

Year One			
¹ MTH 201 Calculus I ^{GE Math} Prereq: MTH 122 & 123, or MTH 124, or math placement	4	MTH 202 Calculus II Prerequisite: MTH 201	4
¹ MTH 204 Linear Algebra I Prereq: MTH 122 & 123, or MTH 124, or math placement	3	³ MTH 210 SWS Communicating in Mathematics Prerequisites: Gen Ed Foundations – Writing and MTH 201	4
EDF 115 Intro to Education: An Exploration of Schooling in America. ^{GE Social/Behavioral}	3	PSY 101 Introductory Psychology ^{GE Social/Behavioral} Gen Ed ^{GE Physical/Life Science with Lab}	3
² WRT 150 Gen Ed Optional elective	4	Optional Elective	4
	1		1
<i>Total</i>	15	<i>Total</i>	16
Year Two			
MTH 229 Teaching High School Mathematics Prerequisites: MTH 201 or equivalent and sophomore standing	3	MTH 324 Algebraic Reasoning in Grades 3-9 Prerequisite: MTH 326 or (MTH 210 and one of 229, 322, 323)	3
MTH 315 Discrete Mathematics Prerequisite: MTH 210	3	MTH 331 Euclidean Geometry Prerequisites: MTH 210 and either MTH 204 or MTH 322	3
EDR 225 Intro to Teaching Multilingual Learners ^{GE Cultures-GP} Gen Ed ^{GE Life/Physical Science without Lab}	3	PSY 331 Adolescent Development Prerequisite: PSY 101	3
⁴ Math elective Optional Elective	3	STA 312 Probability and Statistics Prerequisites: MTH 201	3
	1	Optional elective	3
		Optional elective	1
<i>Total</i>	16	<i>Total</i>	16
Year Three			
MTH 313 Teaching Probability & Statistics in Grades 5-12 Prerequisites: MTH 229 and STA 312	3	MTH 329 Teaching Middle Grades Math Prerequisites: C or better in MTH 210 and MTH 324	3
MTH 350 Modern Algebra I Prerequisites: MTH 210, and either MTH 204 or MTH 225	3	EDF 315 Diverse Perspectives on Education ^{GE US Diversity} Gen Ed ^{GE Historical Analysis}	3
³ EDF 260 SWS Educational Research & Assessment: Foundations of Practice ^{SWS}	3	Gen Ed ^{GE Arts}	3
Gen Ed ^{GE Philosophy and Literature}	3	MTH 495 The Nature of Modern Mathematics (Capstone) Prerequisites: MTH 204, 210, and at least four other 300-400 level	3
Issues Gen Ed	3	OR MTH 496 Senior Thesis (Capstone) Prerequisites: 27 cr. in major, major GPA 3.0+, & permission of instructor	
<i>Total</i>	15	<i>Total</i>	15
Year Four - Teacher Preparation Professional Program			
⁵ Apprenticeship EDI 331/333/334 Secondary Teacher Apprenticeship	4	Internship EDI 431/433/434 Secondary Teacher Internship	7
EDI 332 Secondary Apprenticeship Disciplinary Cont. Sem. Corequisite: EDI 331, 333, 334, or 335	2	EDI 432 Secondary Internship Disciplinary Content Sem. Corequisite: EDI 431, 433, 434, or 435	2
³ EDR 321 SWS Content Area Literacy Corequisite: EDI 331, 333, 334, or 335	3	EDF 495 Reflective Inquiry and Practice Corequisite: EDI 430, 431, 433, 434, or 435	3
EDS 319 Universal Design for Learning Prerequisite: Junior standing	3		
EDT 477 Secondary Teaching with Technology ^{GE Issues}	3		
<i>Total</i>	15	<i>Total</i>	12

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

¹ For math placement info, visit: <http://www.gvsu.edu/s/mv>² Students should take either [WRT 120(Fall) + WRT 130(Winter)] or [WRT 140 (F or W)] in Year 1. "C" or better is required to satisfy the WRT requirement.³ Students must complete a total of two courses with an SWS attribute. One SWS should be outside of the major.⁴ Mathematics Education-5-12 students must complete one elective course in Math. Options are listed below.⁵ Apprenticeship applications are due the previous semester. See: <https://www.gvsu.edu/education/undergraduate/apply-for-field-placement-4.htm>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 204, and MTH 210. To earn a**It is imperative to meet with your CLAS and CECI faculty advisors 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.

Online at: <http://www.gvsu.edu/clasadvising>

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.

General Education Categories fulfilled by the Mathematics – Education Majors for 5-12:	
Social and Behavioral Sciences: PSY 101, EDF 115	Issues: EDT 477
Mathematical Sciences: MTH 201	Cultures-U.S. Diversity: EDF 315
Cultures-Global Perspectives: EDR 225	

Second Major in Secondary Education

A 2.7 cumulative GPA in the Secondary Education Major Courses is required

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| <ul style="list-style-type: none"> — EDF 115 Introduction to Education (3) — EDR 225 Intro to Teaching Multilingual Learners (3) — EDF 315 Diverse Perspectives on Education (3) — EDF 260 Educational Research and Assessment (3)* | <ul style="list-style-type: none"> — PSY 331 Adolescent Development (3) Prerequisite: PSY 101 <p style="text-align: center;">*Must earn a B- or better</p> |
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Apprenticeship (15 credits)

- **EDI 331/333/334** Secondary Teacher Apprenticeship and Seminar (4)*
- **EDI 332** Secondary Teacher Apprenticeship Disciplinary Cont. Sem. (2)
- **EDR 321** Content Area Literacy (3)*
- **EDT 477** Teaching with Technology (3)*
- **EDS 319** Universal Design for Learning: Secondary (3)*

Internship (12 credits)

- **EDI 431/433/434** Secondary Teacher Internship and Seminar (7)*
 - **EDI 432** Secondary Internship Disciplinary Content Seminar (2)
 - **EDF 495** Reflective Inquiry and Practice (3)*
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- *Must earn a B- or better**

Application requirements for Teacher Apprenticeship and Teaching Internship experiences can be found at <https://www.gvsu.edu/education/undergraduate/apply-for-field-placement-4.htm> If you have any questions about the clinical experience applications, please contact the [Office of Certification and Accreditation](#) at (616) 331-6650 or email oca@gvsu.edu

Math Elective Courses (Choose one of the following)

<ul style="list-style-type: none"> MTH 205 Linear Algebra II MTH 296 Introduction to Mathematical Research MTH 304 Analysis of Differential Equations MTH 360 Operations Research 	<ul style="list-style-type: none"> MTH 408 Real Analysis I* MTH 431 Non-Euclidean Geometry MTH 450 Modern Algebra I MTH 495 Nature of Modern Math (if MTH 496 is taken as capstone) MTH 496 Senior Thesis (if MTH 495 is taken as capstone)
* This course has additional prerequisites	May be used with Unit Head Permission: MTH 380, 386, 387, 399, and 480