

UNDERGRADUATE AND TEACHER EDUCATION

SCHOOL OF EDUCATION Bloomington

B.S. EDUCATION: MATHEMATICS

This Bachelor of Science in Education degree enables you to teach Middle School/Junior High or High School students. Course requirements for this program are valid at IUB as reflected in the School of Education Bulletin. A four-year college plan requires completion of 15 credits each semester. A 2.5 GPA overall is required for retention and graduation. A total of 120 credits are required for graduation.

May 2022

PREREQUISITES FOR ADMISSION TO THE TEP	Social & Historical Studies (S&H) 6 credits
Competitive enrollment. Meeting minimum requirements does not	Complete at least 2 courses for a total of at least 6 credits.
guarantee enrollment in authorized courses.	
1. 2.5 GPA overall.	•
2. 21 credits and a 2.0 GPA in the content field with at least 15 credits completed and 6 credits in progress. Grade of C minus (C-) or higher	
is required in each content field course.	
Completion of or enrollment in prerequisites: Grade of C or higher is	Natural & Mathematical Sciences (N&M) 5+ credits
required in each EDUC course.	Complete ONE of the following options.
<u>Course</u> <u>Credits</u>	
EDUC-G 203 Communication for Youth Serving 3	Option I: Complete at least 2 courses for a total of at least 5 credits. At
Professionals (S&H)	least 1 of these courses must be a Natural Science (*) course.
• EDUC-M 300 Teaching in a Pluralistic Society 3	
(P: English Comp.) (D)	·
• EDUC-P 312 Learning Theory into Practice (P: Soph. 3	Option II: Complete a 5 credit science course.
status) • EDUC-P 313 Adolescents in a Learning Community 3	Option 11. Complete a colocula colocula colocula co.
• EDUC-P 313 Adolescents in a Learning Community 3 (P: Soph. status)	•
• EDUC-W 200 Using Computers in Education (IF) 3	
4. Apply to TEP by October 1 to enroll in Spring term Block I and	(The class taken to fulfill the Mathematical Modeling requirement cannot
EDUC-K 306.	be counted towards the 5+ credits needed to fulfill the N&M requirement.)
5. Access TEP Application at: https://education.indiana.edu/	
	NV 111 (NV) NV 110 K (NV)
I. IUB & SCHOOL OF EDUCATION	World Languages (WL)/World Cultures (WC) 6 credits
GENERAL EDUCATION REQUIREMENTS	Complete ONE of the following options.
https://gened.indiana.edu/approved-courses/index.html	Option I: Language Study (WL): Complete the study of an approved
Careful selection & completion of courses with a grade of "C" or higher	single language through the second semester of the second-year level of
may allow double counting within General Education, Professional	college-level coursework.
Education &/or Content Field. If you earn a grade lower than a C, please	
consult with an academic advisor.	•
English Composition (EC) (Select one) 0-3 credits	
Grade of C or higher required	Option II: World Culture (WC): Complete at least 2 courses for a total of
Orace of o of higher required	at least 6 credits.
CMLT-C 110 Writing the World 3	
ENG-W 131 Reading, Writing & Inquiry I OR 3	•
ENG-W 131EX Elementary Composition-Exempt 0	Option III: International Experience (IE): Complete an approved study
ENG-W 170 Intro to Argumentative Writing-Projects in Reading 3	abroad program or internship of at least 6 credits & at least 6 weeks
& Writing	abroad in duration.
Intensive Writing Course (IW) (Select one) 3 credits	•
EDUC II 20E Intro to Educational Theorets (D. Franks Comm.)	
EDUC-H 205 Intro to Educational Thought (P: English Comp.) 3 (S&H)	Information Florence (IF)
EDUC-H 340 Education & American Culture 3	Information Fluency (IF) 3 credits
(P: Soph. status)	EDUC W 200 Union Commuters in Education
	EDUC-W 200 Using Computers in Education 3
Mathematical Modeling (MM) 3-4 credits	Diversity in the U. S. (D) 3 credits
	Diversity in the O. S. (D)
Complete at least 1 course for at least 3 credits.	EDUC-M 300 Teaching in a Pluralistic Society (P: English Comp.) 3
	== = = ccc cashing in a . islandid doubty (i . English dollips)
•	Enriching Educational Experiences (EEE) 12 credits
Arts & Humanities (A&H) 6 credits	EDUC-M 480 Student Teaching: Secondary (12 weeks) 12
Complete at least 2 courses for a total of at least 6 credits	

II. PROFESSIONAL EDUCATION 51 credits/2.5 GPA

A grade of C or higher is required in each EDUC course. The following courses must be successfully completed before student teaching.

21	credits	
71	create	

3

13 credits

EDUC-G 203	Communication for Youth Serving Professionals (S&H)	3
EDUC-M 300	Teaching in a Pluralistic Society (P: English Comp.) (D)	3
EDUC-P 312 EDUC-P 313	Learning Theory into Practice (P: Soph. status) Adolescents in a Learning Community (P: Soph. status)	3 3
EDUC-W 200 EDUC-A 308	Using Computers in Education (IF) Legal & Ethical Issues for Teachers (P: Soph. status)	3 3
EDUC-H 205	Intro to Educational Thought (P: English Comp.) (S&H) (IW) OR	3
EDUC-H 340	` ,` ,	3

Admission to the Teacher Education Program 30 credits (TEP) is required in order to enroll in the following courses:

EDUC-K 306 Teaching Students with Special Needs: Secondary Classrooms

Courses must be taken in prescribed blocks. Successful completion (C or higher) of all courses in each block is a prerequisite for the next block and student teaching.

Block I and Block II must be completed in sequence from one semester to the next. Students may add an additional semester(s) between the completion of Block II and Student Teaching (Block III).

Block I (Sprin	ig only)	8 credits
EDUC-M 321	Secondary School Mathematics Curriculum & Assessment	3
EDUC-M 303	Field Experience I	2
EDUC-M 469	Content Area Literacy	3
Block II (Fall	only)	6 credits

EDUC-M 422	Teaching Mathematics in the Secondary School	3
EDUC-M 403	Field Experience II	2
EDUC-S 303	Classroom Management	1

Students may not enroll in other classes while completing student teaching. Exception: EDUC-M 202 Job Search Strategies for Educators

Block III (Student Teaching)

EDUC-M 420	Student Teaching Seminar	1
EDUC-M 480	Student Teaching in the Secondary School	12
	(12 weeks) (EEE)	

III. MATHEMATICS CONTENT 42 credits/2.0 GPA

A grade of C minus (C-) or higher is required in each course. Check with the department regarding when courses will be offered.

Analysis		department regarding when courses will be offe	
MATH-M/S 212 Calculus III (P: MATH-M/S 212) 4 Algebra 9 credits MATH-M 301 Linear Algebra and Applications (P: MATH-M/S 212; or both MATH-M 211 and CSCI-C 241) OR (P: MATH-M/S 212; or both MATH-M 211 and CSCI-C 241) OR (P: MATH-M/S 212; or both MATH-M 211 and CSCI-C 241) 3 MATH-M/S 303 Introduction to Mathematical Reasoning (P: MATH-M/S 212; or both MATH-M 211 and CSCI-C 241) Introduction to Mathematical Reasoning (P: MATH-M/S 212; or both MATH-M 211 and CSCI-C 241; and MATH-M 301 or MATH-M 301 or MATH-M 303 (Spring) 3 MATH-M/S 403 Introduction to Modern Algebra (P: MATH-M 301 or M/S 303; feall) OR Modern Algebra for Secondary Teachers (P: MATH-M 301 or M/S 303; and MATH-M 301) (Fall) 3 MATH-M 365 Introduction to Probability and Statistics (P: MATH-M 301) (Fall) 3 3 MATH-M 365 Introduction to Probability and Statistics (P: MATH-M/S 212) (Fall) 3 3 MATH-M 365 Topics in Euclidean Geometry (P: MATH-M/S 212) (Fall) 3 3 MATH-M 371 Topics in Euclidean Geometry (P: MATH-M/S 303; and MATH-M/	Analysis	12 cr	edits
MATH-M/S 212 Calculus III (P: MATH-M/S 212) 4 Algebra 9 credits MATH-M 301 Linear Algebra and Applications (P: MATH-M/S 212; or both MATH-M 211 and CSCI-C 241) OR (P: MATH-M/S 212; or both MATH-M 211 and CSCI-C 241) OR (P: MATH-M/S 212; or both MATH-M 211 and CSCI-C 241) 3 MATH-M/S 303 Introduction to Mathematical Reasoning (P: MATH-M/S 212; or both MATH-M 211 and CSCI-C 241) Introduction to Mathematical Reasoning (P: MATH-M/S 212; or both MATH-M 211 and CSCI-C 241; and MATH-M 301 or MATH-M 301 or MATH-M 303 (Spring) 3 MATH-M/S 403 Introduction to Modern Algebra (P: MATH-M 301 or M/S 303; feall) OR Modern Algebra for Secondary Teachers (P: MATH-M 301 or M/S 303; and MATH-M 301) (Fall) 3 MATH-M 365 Introduction to Probability and Statistics (P: MATH-M 301) (Fall) 3 3 MATH-M 365 Introduction to Probability and Statistics (P: MATH-M/S 212) (Fall) 3 3 MATH-M 365 Topics in Euclidean Geometry (P: MATH-M/S 212) (Fall) 3 3 MATH-M 371 Topics in Euclidean Geometry (P: MATH-M/S 303; and MATH-M/	MATH-M/S 211	Calculus I (MM)	4
MATH-M/S 311 Calculus III (P: MATH-M/S 212) 4		Calculus II (P: MATH-M/S 211) (N&M)	
MATH-M 301	MATH-M/S 311		4
MATH-M 301	Algebra	Q cr	edits
(P: MATH-M/S 212; or both MATH-M 211 and CSCI-C 241) OR Innear Algebra for Undergraduates GP: MATH-M/S 212; or both MATH-M 211 and CSCI-C 241) Introduction to Mathematical Reasoning GP: MATH-M/S 212; or both MATH-M 211 and CSCI-C 241; and MATH-M 201 or MATH-M 201 and CSCI-C 241; and MATH-M 201 or MATH-M 201 and MATH-M 301 or M/S 303; (Spring) Introduction to Modern Algebra GP: MATH-M 301 or M/S 303; and MATH-M 391) (Fall) Introduction to Probability and Statistics 3 credits			
MATH-M/S 303	MA I H-M 301	(P: MATH-M/S 212; or both MATH-M 211 and	3
MATH-M 391	MATH-M/S 303	Linear Algebra for Undergraduates (P: MATH-M/S 212; or both MATH-M 211	3
MATH-M/S 403 Introduction to Modern Algebra (P: MATH-M 301 or M/S 303) (Fall) OR Modern Algebra for Secondary Teachers (P: MATH-M 301 or M/S 303; and MATH-M 391) (Fall) 3 Probability & Statistics 3 credits MATH-M 365 Introduction to Probability and Statistics (P: MATH-M/S 212) 3 credits MATH-T 336 Topics in Euclidean Geometry (P: MATH-M/S 212) (Fall) 3 credits MATH-M 447 Mathematical Models and Applications I (P: MATH-M/S 301 or MATH-M/S 303; and MATH-M/S 311. P or C: MATH-M 365) (Fall) 3 credits MATH-M 371 Elementary Computational Methods (P: MATH-M/S 212) (Spring) 3 credits EDUC-M 302 Algebra Throughout the Sec. Curriculum (P: MATH-M/S 212) (Spring) 1 (C: MATH-T 403) (Fall) EDUC-M 302 Calculus Throughout the Sec. Curriculum (C: MATH-M/S 212) (Spring) 1 (C: MATH-M/S 212) (Spring) EDUC-M 302 Probability & Statistics Throughout the Sec. Curriculum (C: MATH-M/S 212) (Fall) 3 (Curriculum (C: MATH-M/S 212) (Spring) EDUC-M 302 Probability & Statistics Throughout the Sec. Curriculum (C: MATH-M/S 212) (Spring) EDUC-M 301 Intuitive Topology (P: MATH-M/S 212) (Fall) 3 (Curriculum (C: MATH-M/S 212) (Spring) Electives to total 42 credits Program must include at least one of the following: (C: MATH-M/S 212) (Spring) <	MATH-M 391	Introduction to Mathematical Reasoning (P: MATH-M/S 212; or both MATH-M 211 and CSCI-C 241; and MATH-M 301 or	3
MATH-T 403	MATH-M/S 403	Introduction to Modern Algebra	3
MATH-M 365 Introduction to Probability and Statistics (P: MATH-M/S 212) Geometry 3 credits MATH-T 336 Topics in Euclidean Geometry (P: MATH-M/S 212) (Fall) Applied Mathematics 3 credits MATH-M 447 Mathematical Models and Applications I (P: MATH-M 301 or MATH-M/S 303; and MATH-M/S 311. P or C: MATH-M 365) (Fall) Computer Programming 3 credits MATH-M 371 Elementary Computational Methods (P: MATH-M/S 212) (Spring) Math in Secondary Curriculum 3 credits EDUC-M 302 Algebra Throughout the Sec. Curriculum (P: MATH-M/S 212) (Spring) EDUC-M 302 Calculus Throughout the Sec. Curriculum 1 (C: MATH-M/S 212) (Spring) EDUC-M 302 Calculus Throughout the Sec. Curriculum (C: MATH-M/S 212) (Spring) EDUC-M 302 Calculus Throughout the Sec. 1 Curriculum (C: MATH-M/S 212) (Spring) EDUC-M 303 Drobability & Statistics Throughout the Sec. 1 Curriculum (C: MATH-M/S 212) (Spring) Electives to total 42 credits Program must include at least one of the following: MATH-M/S 343 Introduction to Differential Equations with 3 Applications I (P: MATH-M/S 212) (Spring, 3 odd) years) MATH-M/S 413 Introduction to Analysis I (P: MATH-M/S 212) (Spring, 3 odd) years) MATH-M/S 413 Introduction to Analysis I (P: MATH-M/S 311) (Fall) Select any other mathematics course at the 300 level or above, but the following are recommended: MATH-M/S 300 Exploring Mathematical Ideas 3 (P: MATH-M/S 211) Elementary Complex Variables with 3 Applications (P: MATH-M/S 311) (Spring) MATH-M 415 Elementary Complex Variables with 3 Applications (P: MATH-M/S 311) (Spring) MATH-M 453 Cryptography (P: MATH-M/S 311) (Spring)	MATH-T 403	Modern Algebra for Secondary Teachers (P: MATH-M 301 or M/S 303; and	3
MATH-M 365	Probability & S	tatistics 3 cr	edits
MATH-T 336 Topics in Euclidean Geometry (P: MATH-M/S 212) (Fall) 3 credits Applied Mathematics 3 credits MATH-M 447 Mathematical Models and Applications I (P: MATH-M/S 301 or MATH-M/S 303; and MATH-M/S 311. P or C: MATH-M 365) (Fall) Computer Programming 3 credits MATH-M 371 Elementary Computational Methods (P: MATH-M/S 212) (Spring) 3 credits Math in Secondary Curriculum 3 credits EDUC-M 302 Algebra Throughout the Sec. Curriculum (P: MATH-M 301 or MATH-M/S 303) (C: MATH-T 403) (Fall) 1 (C: MATH-T 403) (Fall) EDUC-M 302 Calculus Throughout the Sec. Curriculum (C: MATH-M/S 212) (Spring) 1 (C: MATH-M/S 212) (Spring) EDUC-M 302 Probability & Statistics Throughout the Sec. 1 (Curriculum (C: MATH-M/S 36) (Spring) 1 (C: MATH-M/S 212) (Spring) Electives to total 42 credits Propabality & Statistics Throughout the Sec. 1 (Curriculum (C: MATH-M/S 36) (Spring) MATH-M/S 343 Introduction to Differential Equations with 3 (P: MATH-M/S 343) (MATH-M/S 343) (MATH-M/S 303) (MATH-M/S 301) (Spring) (MATH-M/S 3		Introduction to Probability and Statistics	3
MATH-T 336 Topics in Euclidean Geometry (P: MATH-M/S 212) (Fall) 3 credits Applied Mathematics 3 credits MATH-M 447 Mathematical Models and Applications I (P: MATH-M/S 301 or MATH-M/S 303; and MATH-M/S 311. P or C: MATH-M 365) (Fall) Computer Programming 3 credits MATH-M 371 Elementary Computational Methods (P: MATH-M/S 212) (Spring) 3 credits Math in Secondary Curriculum 3 credits EDUC-M 302 Algebra Throughout the Sec. Curriculum (P: MATH-M 301 or MATH-M/S 303) (C: MATH-T 403) (Fall) 1 (C: MATH-T 403) (Fall) EDUC-M 302 Calculus Throughout the Sec. Curriculum (C: MATH-M/S 212) (Spring) 1 (C: MATH-M/S 212) (Spring) EDUC-M 302 Probability & Statistics Throughout the Sec. 1 (Curriculum (C: MATH-M/S 36) (Spring) 1 (C: MATH-M/S 212) (Spring) Electives to total 42 credits Propabality & Statistics Throughout the Sec. 1 (Curriculum (C: MATH-M/S 36) (Spring) MATH-M/S 343 Introduction to Differential Equations with 3 (P: MATH-M/S 343) (MATH-M/S 343) (MATH-M/S 303) (MATH-M/S 301) (Spring) (MATH-M/S 3	Geometry	3 cr	edits
MATH-M 447 Mathematical Models and Applications I (P: MATH-M 301 or MATH-M/S 303; and MATH-M/S 311. P or C: MATH-M 365) (Fall) 3 (P: MATH-M 365) (Fall) Computer Programming 3 credits MATH-M 371 Elementary Computational Methods (P: MATH-M/S 212) (Spring) 3 credits EDUC-M 302 Algebra Throughout the Sec. Curriculum (P: MATH-M 301 or MATH-M/S 303) (C: MATH-M 301 or MATH-M/S 303) (C: MATH-M 403) (Fall) 1 (C: MATH-M/S 212) (Spring) EDUC-M 302 Probability & Statistics Throughout the Sec. Curriculum (C: MATH-M/S 212) (Spring) 1 (C: MATH-M/S 212) (Spring) EDUC-M 302 Probability & Statistics Throughout the Sec. 1 (Curriculum (C: MATH-M 365) (Spring) 1 (C: MATH-M/S 212) (Spring) Electives to total 42 credits Program must include at least one of the following: Intuitive Topology (P: MATH-M/S 212) (Fall) 3 (Introduction to Differential Equations with 3 (Introduction to Analysis I (P: MATH-M/S 212) (Spring, 3 odd years) 3 (Introduction to Analysis I (P: MATH-M/S 212) (Spring, 3 odd years) 3 (Introduction to Analysis I (P: MATH-M/S 311) (Fall) Select any other mathematics course at the 300 level or above, but the following are recommended: MATH-M 330 (P: MATH-M/S 211) 3 (P: MATH-M/S 211) (Spring) (P: MATH-M/S 311) (Spring) (P: MATH-M/S 311) (Spring) (P: MATH-M/S 311) (Spring) (P: MATH-M/S 311) (Spring) (P: MA		Topics in Euclidean Geometry	
MATH-M 447 Mathematical Models and Applications I (P: MATH-M 301 or MATH-M/S 303; and MATH-M/S 311. P or C: MATH-M 365) (Fall) 3 (P: MATH-M 365) (Fall) Computer Programming 3 credits MATH-M 371 Elementary Computational Methods (P: MATH-M/S 212) (Spring) Math in Secondary Curriculum 3 credits EDUC-M 302 Algebra Throughout the Sec. Curriculum (P: MATH-M/S 303) (C: MATH-T 403) (Fall) EDUC-M 302 Algebra Throughout the Sec. Curriculum (C: MATH-M/S 212) (Spring) EDUC-M 302 Probability & Statistics Throughout the Sec. Curriculum (C: MATH-M/S 212) (Spring) Electives to total 42 credits Program must include at least one of the following: MATH-M 321 Intuitive Topology (P: MATH-M/S 212) (Fall) 3 Introduction to Differential Equations with 3 Applications I (P: MATH-M/S 212, R: MATH-M/S 303) (P: MATH-M/S 303) MATH-M 380 History of Mathematics (P: MATH-M/S 212) (Spring, 3 odd years) MATH-M 405 Number Theory (P: MATH-M/S 212) (Spring, 3 odd years) MATH-M/S 413 Introduction to Analysis I (P: MATH-M/S 311) (Fall) Select any other mathematics course at the 300 level	Applied Mather	matics 3 cr	edits
(P: MATH-M 301 or MATH-M/S 303; and MATH-M/S 311. P or C: MATH-M 365) (Fall) Computer Programming 3 credits MATH-M 371 Elementary Computational Methods (P: MATH-M/S 212) (Spring) Math in Secondary Curriculum 3 credits EDUC-M 302 Algebra Throughout the Sec. Curriculum (P: MATH-M 301 or MATH-M/S 303) (C: MATH-T 403) (Fall) EDUC-M 302 Calculus Throughout the Sec. Curriculum (C: MATH-M/S 212) (Spring) EDUC-M 302 Probability & Statistics Throughout the Sec. 1 Curriculum (C: MATH-M/S 212) (Spring) Electives to total 42 credits Propability & Statistics Throughout the Sec. 1 Curriculum (C: MATH-M/S 305) (Spring) Electives to total 42 credits Propability & Statistics Throughout the Sec. 1 Curriculum (C: MATH-M/S 212) (Fall) 3 Introduction to Differential Equations with 3 Applications I (P: MATH-M/S 212) (Fall) 3 Introduction to Differential Equations with 3 Applications I (P: MATH-M/S 212) (Spring, 3 odd years) MATH-M 380 History of Mathematics (P: MATH-M/S 212) (Spring, 3 odd years) MATH-M/S 413 Introduction to Analysis I (P: MATH-M/S 311) (Fall) Select any other mathematics course at the 300 level or above			2
MATH-M 371 Elementary Computational Methods (P: MATH-M/S 212) (Spring) Math in Secondary Curriculum 3 credits EDUC-M 302 Algebra Throughout the Sec. Curriculum (P: MATH-M 301 or MATH-M/S 303) (C: MATH-T 403) (Fall) EDUC-M 302 Calculus Throughout the Sec. Curriculum 1 (C: MATH-M/S 212) (Spring) EDUC-M 302 Probability & Statistics Throughout the Sec. 1 Curriculum (C: MATH-M 365) (Spring) Electives to total 42 credits Program must include at least one of the following: MATH-M 321 Intuitive Topology (P: MATH-M/S 212) (Fall) 3 MATH-M/S 343 Introduction to Differential Equations with 3 Applications I (P: MATH-M/S 212, R: MATH-M 301 or MATH-M/S 303) MATH-M 380 History of Mathematics (P: MATH-M/S 212) (Spring, 3 odd years) MATH-M/S 413 Introduction to Analysis I (P: MATH-M 301 or MATH-M/S 303; and MATH-M/S 311) (Fall) Select any other mathematics course at the 300 level or above, but the following are recommended: MATH-M 330 Exploring Mathematical Ideas (P: MATH-M/S 211) MATH-M 415 Elementary Complex Variables with 3 Applications (P: MATH-M/S 311) (Spring) MATH-M 453 Cryptography (P: MATH-M/S 311) (Spring)	IVIA I IT-IVI 447	(P: MATH-M 301 or MATH-M/S 303; and	3
Math in Secondary Curriculum 3 credits	Computer Prog	ramming 3 cr	edits
EDUC-M 302 Algebra Throughout the Sec. Curriculum (P: MATH-M 301 or MATH-M/S 303) (C: MATH-T 403) (Fall) EDUC-M 302 Calculus Throughout the Sec. Curriculum (C: MATH-M/S 212) (Spring) EDUC-M 302 Probability & Statistics Throughout the Sec. 1 Curriculum (C: MATH-M 365) (Spring) Electives to total 42 credits Program must include at least one of the following: MATH-M 321 Intuitive Topology (P: MATH-M/S 212) (Fall) 3 MATH-M/S 343 Introduction to Differential Equations with 3 Applications I (P: MATH-M/S 212, R: MATH-M/S 301 or MATH-M/S 303) MATH-M 380 MATH-M 380 MATH-M 405 Number Theory (P: MATH-M/S 212) (Spring, 3 odd years) MATH-M/S 413 Introduction to Analysis I (P: MATH-M 301 or MATH-M/S 303; and MATH-M/S 311) (Fall) Select any other mathematics course at the 300 level or above, but the following are recommended: MATH-M 330 Exploring Mathematical Ideas 3 (P: MATH-M/S 211) MATH-M 415 Elementary Complex Variables with 3 Applications (P: MATH-M/S 311) (Spring) MATH-M 453 Cryptography (P: MATH-M 301 or 3	MATH-M 371		3
(P: MATH-M 301 or MATH-M/S 303) (C: MATH-T 403) (Fall) (C: MATH-T 403) (Fall) EDUC-M 302 Calculus Throughout the Sec. Curriculum (C: MATH-M/S 212) (Spring) EDUC-M 302 Probability & Statistics Throughout the Sec. Curriculum (C: MATH-M 365) (Spring) 1 Electives to total 42 credits Program must include at least one of the following: MATH-M 365) (Spring) MATH-M 321 Intuitive Topology (P: MATH-M/S 212) (Fall) 3 MATH-M/S 343 Introduction to Differential Equations with 3 3 Applications I (P: MATH-M/S 212) (Fall) 3 MATH-M 380 History of Mathematics (P: MATH-M/S 212) (Spring, 3 3 MATH-M 405 Number Theory (P: MATH-M/S 212) (Spring, 3 3 MATH-M/S 413 Introduction to Analysis I (P: MATH-M 301 or 3 MATH-M/S 303; and MATH-M/S 311) (Fall) Select any other mathematics course at the 300 level or above, but the following are recommended: MATH-M 330 Exploring Mathematical Ideas (P: MATH-M/S 311) (Spring) 3 MATH-M 415 Elementary Complex Variables with Applications (P: MATH-M/S 311) (Spring) 3	Math in Second	dary Curriculum 3 cr	edits
EDUC-M 302 Calculus Throughout the Sec. Curriculum (C: MATH-M/S 212) (Spring) 1 EDUC-M 302 Probability & Statistics Throughout the Sec. Curriculum (C: MATH-M 365) (Spring) 1 Electives to total 42 credits Program must include at least one of the following: MATH-M 321 Intuitive Topology (P: MATH-M/S 212) (Fall) 3 MATH-M/S 343 Introduction to Differential Equations with Applications I (P: MATH-M/S 212, R: MATH-M 301 or MATH-M/S 303) 3 MATH-M 380 History of Mathematics (P: MATH-M/S 212) (Spring, odd years) 3 MATH-M 405 Number Theory (P: MATH-M/S 212) (Spring, odd years) 3 MATH-M/S 303; and MATH-M/S 311) (Fall) Select any other mathematics course at the 300 level or above, but the following are recommended: MATH-M 330 Exploring Mathematical Ideas (P: MATH-M/S 211) 3 MATH-M 415 Elementary Complex Variables with Applications (P: MATH-M/S 311) (Spring) 3 MATH-M 453 Cryptography (P: MATH-M 301 or 3 3	EDUC-M 302	(P: MATH-M 301 or MATH-M/S 303)	1
Electives to total 42 credits Program must include at least one of the following: MATH-M 321 Intuitive Topology (P: MATH-M/S 212) (Fall) 3 MATH-M/S 343 Introduction to Differential Equations with 301 or MATH-M/S 303) MATH-M 380 History of Mathematics (P: MATH-M/S 212) (Spring, 304 years) MATH-M/S 413 Introduction to Analysis I (P: MATH-M/S 212) (Spring, 304 years) MATH-M/S 413 Introduction to Analysis I (P: MATH-M/S 301) (Fall) Select any other mathematics course at the 300 level or above, but the following are recommended: MATH-M 330 Exploring Mathematical Ideas (P: MATH-M/S 211) MATH-M 415 Elementary Complex Variables with Applications (P: MATH-M/S 311) (Spring) MATH-M 453 Cryptography (P: MATH-M 301 or 3	EDUC-M 302	Calculus Throughout the Sec. Curriculum	1
Program must include at least one of the following: MATH-M 321 Intuitive Topology (P: MATH-M/S 212) (Fall) 3 MATH-M/S 343 Introduction to Differential Equations with Applications I (P: MATH-M/S 212, R: MATH-M 301 or MATH-M/S 303) 3 MATH-M 380 History of Mathematics (P: MATH-M/S 212) 3 MATH-M 405 Number Theory (P: MATH-M/S 212) (Spring, odd years) 3 MATH-M/S 413 Introduction to Analysis I (P: MATH-M 301 or MATH-M/S 303; and MATH-M/S 311) (Fall) 3 Select any other mathematics course at the 300 level or above, but the following are recommended: 3 MATH-M 330 Exploring Mathematical Ideas (P: MATH-M/S 211) 3 MATH-M 415 Elementary Complex Variables with Applications (P: MATH-M/S 311) (Spring) 3 MATH-M 453 Cryptography (P: MATH-M 301 or 3 3	EDUC-M 302	Probability & Statistics Throughout the Sec.	1
MATH-M 321 Intuitive Topology (P: MATH-M/S 212) (Fall) 3 MATH-M/S 343 Introduction to Differential Equations with Applications I (P: MATH-M/S 212, R: MATH-M 301 or MATH-M/S 303) 3 MATH-M 380 History of Mathematics (P: MATH-M/S 212) 3 MATH-M 405 Number Theory (P: MATH-M/S 212) (Spring, odd years) 3 MATH-M/S 413 Introduction to Analysis I (P: MATH-M 301 or MATH-M/S 303; and MATH-M/S 311) (Fall) 3 Select any other mathematics course at the 300 level or above, but the following are recommended: MATH-M 330 Exploring Mathematical Ideas (P: MATH-M/S 211) 3 MATH-M 415 Elementary Complex Variables with Applications (P: MATH-M/S 311) (Spring) 3 MATH-M 453 Cryptography (P: MATH-M 301 or 3 3	Electives	to total 42 cr	edits
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MATH-M/S 343 Introduction to Differential Equations with Applications I (P: MATH-M/S 212, R: MATH-M 301 or MATH-M/S 303) MATH-M 380 History of Mathematics (P: MATH-M/S 212) 3 MATH-M 405 Number Theory (P: MATH-M/S 212) (Spring, odd years) MATH-M/S 413 Introduction to Analysis I (P: MATH-M 301 or MATH-M/S 303; and MATH-M/S 311) (Fall) Select any other mathematics course at the 300 level or above, but the following are recommended: MATH-M 330 Exploring Mathematical Ideas (P: MATH-M/S 211) MATH-M 415 Elementary Complex Variables with Applications (P: MATH-M/S 311) (Spring) MATH-M 453 Cryptography (P: MATH-M 301 or 3	•		3
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MATH-M/S 413 Introduction to Analysis I (P: MATH-M 301 or MATH-M/S 303; and MATH-M/S 311) (Fall) Select any other mathematics course at the 300 level or above, but the following are recommended: MATH-M 330 Exploring Mathematical Ideas (P: MATH-M/S 211) MATH-M 415 Elementary Complex Variables with 3 Applications (P: MATH-M/S 311) (Spring) MATH-M 453 Cryptography (P: MATH-M 301 or 3		History of Mathematics (P: MATH-M/S 212) Number Theory (P: MATH-M/S 212) (Spring,	
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MATH-M 453 Cryptography (P: MATH-M 301 or 3	MATH-M 415	Elementary Complex Variables with	3
	MATH-M 453	Cryptography (P: MATH-M 301 or	3

IV. ELECTIVES (To total 120 credits)