

# 4 Year Plan – Mathematics & Science Ed. – Odd Year Start

<b>Every Fall:</b> <i>MATH 120 Trigonometry</i> MATH 123 Calculus I MATH 125 Calculus II (online) MATH 225 Calculus III MATH 281 Introduction to Statistics MATH 351 Foundations of Mathematics CSC 150 Computer Science I	<b>Every Spring:</b> <i>MATH 120 Trigonometry</i> MATH 123 Calculus I MATH 125 Calculus II MATH 225 Calculus III (online) MATH 281 Introduction to Statistics	<b>Online Courses</b> <b>Every Fall, Spring, and Summer</b> <i>MATH 101 Intermediate Algebra</i> <i>MATH 103 Mathematical Reasoning</i> <i>MATH 114 College Algebra</i> <i>MATH 120 Trigonometry</i> MATH 123 Calculus I MATH 125 Calculus II MATH 281 Introduction to Statistics  MATH 225 Calculus III (spring and summer only)
<b>Odd Fall:</b> (see elective list below) MATH 321 Differential Equations	<b>Even Spring:</b> MATH 413 Abstract Algebra I MATH 481 Probability and Statistics MATH Elective	Note: Courses in italics are not a part of the Mathematics major
<b>Even Fall:</b> MATH Elective	<b>Odd Spring:</b> MATH 315 Linear Algebra MATH 423 Advanced Calculus I MATH 361 Modern Geometry	
<b>Even Fall – MATH Electives (one offered each even Fall)</b> MATH 316 Discrete Mathematics MATH 411 Theory of Numbers MATH 450 History of Mathematics	<b>Even Spring – MATH Electives (one offered each even Spring)</b> MATH 416 Combinatorics MATH 440 Mathematics of Finance MATH 461 Introduction to Topology MATH 421 Complex Analysis	

## Freshman start on odd year Fall – 4 Yr Plan (3 Year Plan for Mathematics Content Courses\*\*\*\*)

Freshman Fall (odd year) – 17-18 credits	Freshman Spring (even year) – 16-17 credits
MATH 123 Calculus I (4)	MATH 125 Calculus II (4)
MATH 281 Introduction to Statistics (3)	CMST 101 Fundamentals of Speech (3)
CSC 150 Computer Science I (3)	PSYC 101 General Psychology (3)
ENGL 101 Composition I (3)	ENGL 201 Composition II (3)
Natural Science gen ed w/lab (3-4)	Natural Science gen ed w/lab (3-4)
GS 100 University Experience (1)	
<b>Sophomore Fall (even year) – 16 credits</b>	
MATH 225 Calculus III (4)	MATH 361 Modern Geometry (3)
MATH 351 Foundations of Mathematics (3)	MATH 423 Advanced Calculus I** (3)
MATH Elective* (3)	MATH Elective* (3)
Social Science gen ed (3)	EDFN 295 Practicum: Pre-Admission (1)
Arts & Humanities gen ed (3)	EDFN 338 Foundations of Am. Education (2)
	EPSY 302 Educational Psychology (3)
<i>Submit Application to the Professional Teacher Program</i>	
<b>Junior Fall (odd year) – 15 credits</b>	
MATH Elective* (3)	MATH 413 Abstract Algebra I** (3)
EPSY 428 Child & Adolescent Development (3)	MATH Elective* (3)
SPED 100 Intro to Persons with Exceptionalities (3)	INED 411 SD Indian Studies (3)
Arts & Humanities gen ed (3)	EDFN 365 Computer-Based Tech/Lrng*** (3)
Free Elective (3)	EDFN 475 Human Relations (3)
<b>Senior Fall (even year) – 16 credits</b>	
MLED 480 Middle Level Methods*** (2)	SEED 488 7-12 Student Teaching*** (9)
SEED 408 The Diverse 7-12 Classroom*** (3)	EDFN 375 Methods of Tech. Integration*** (1)
SEED 495 Practicum: Pre-Student Teaching*** (1)	
SEED 450 Teaching Reading in Content Lit*** (3)	
SEED 413 7-12 Science Methods*** (3)	
SEED 418 7-12 Math Methods*** (3)	
EDFN 440 Classroom Management*** (1)	Courses need to be taken together

- \* Professional Electives – Mathematics & Science Education Majors need one professional electives
- \*\* Only one of these two courses is required. Other can be used as elective
- \*\*\* Admitted to Teacher Education required for enrollment
- \*\*\*\* Science Emphasis classes need to be worked into this plan

## 4 Year Plan – Mathematics & Science Ed. – Even Year Start

<b>Every Fall:</b> <i>MATH 120 Trigonometry</i> MATH 123 Calculus I MATH 125 Calculus II (online) MATH 225 Calculus III MATH 281 Introduction to Statistics MATH 351 Foundations of Mathematics CSC 150 Computer Science I	<b>Every Spring:</b> <i>MATH 120 Trigonometry</i> MATH 123 Calculus I MATH 125 Calculus II MATH 225 Calculus III (online) MATH 281 Introduction to Statistics	<b>Online Courses</b> <b>Every Fall, Spring, and Summer</b> <i>MATH 101 Intermediate Algebra</i> <i>MATH 103 Mathematical Reasoning</i> <i>MATH 114 College Algebra</i> <i>MATH 120 Trigonometry</i> MATH 123 Calculus I MATH 125 Calculus II MATH 281 Introduction to Statistics  MATH 225 Calculus III (spring and summer only)  <i>Note: Courses in italics are not a part of the Mathematics major</i>
<b>Odd Fall:</b> (see elective list below) MATH 321 Differential Equations	<b>Even Spring:</b> MATH 413 Abstract Algebra I MATH 481 Probability and Statistics MATH Elective	
<b>Even Fall:</b> MATH Elective	<b>Odd Spring:</b> MATH 315 Linear Algebra MATH 423 Advanced Calculus I MATH 361 Modern Geometry	
<b>Even Fall – MATH Electives (one offered each even Fall)</b> MATH 316 Discrete Mathematics MATH 411 Theory of Numbers MATH 450 History of Mathematics	<b>Even Spring – MATH Electives (one offered each even Spring)</b> MATH 416 Combinatorics MATH 440 Mathematics of Finance MATH 461 Introduction to Topology MATH 421 Complex Analysis	

### **Freshman start on even year Fall – 4 Yr Plan (3 Year Plan for Mathematics Content Courses\*\*\*\*)**

<b>Freshman Fall</b> (even year) – 17-18 credits	<b>Freshman Spring</b> (odd year) – 16-17 credits
MATH 123 Calculus I (4)	MATH 125 Calculus II (4)
MATH 281 Introduction to Statistics (3)	CMST 101 Fundamentals of Speech (3)
CSC 150 Computer Science I (3)	ENGL 201 Composition II (3)
ENGL 101 Composition I (3)	PSYC 101 General Psychology (3)
Natural Science gen ed w/lab (3-4)	Natural Science gen ed w/lab (3-4)
GS 100 University Experience (1)	
<b>Sophomore Fall</b> (odd year) – 16 credits	<b>Sophomore Spring</b> (even year) – 15 credits
MATH 225 Calculus III (4)	MATH 413 Abstract Algebra I** (3)
MATH 351 Foundations of Mathematics (3)	MATH Elective* (3)
MATH Elective* (3)	EDFN 295 Practicum: Pre-Admission (1)
Social Science gen ed (3)	EDFN 338 Foundations of Am. Education (2)
Arts & Humanities gen ed (3)	EPSY 302 Educational Psychology (3)
<i>Submit Application to the Professional Teacher Program</i>	
<b>Junior Fall</b> (even year) – 15 credits	<b>Junior Spring</b> (odd year) – 15 credits
EPSY 428 Child & Adolescent Development (3)	MATH 361 Modern Geometry (3)
SPED 100 Intro to Persons with Exceptionalities (3)	MATH 423 Advanced Calculus I** (3)
EDFN 475 Human Relations (3)	MATH Elective* (3)
Arts & Humanities gen ed (3)	EDFN 365 Computer-Based Tech/Lrng*** (3)
MATH or Free Elective (3)	INED 411 SD Indian Studies (3)
<b>Senior Fall</b> (odd year) – 16 credits	<b>Senior Spring</b> (even year) – 10 credits
MLED 480 Middle Level Methods*** (2)	SEED 488 7-12 Student Teaching*** (9)
SEED 408 The Diverse 7-12 Classroom*** (3)	EDFN 375 Methods of Tech. Integration*** (1)
SEED 495 Practicum: Pre-Student Teaching*** (1)	
SEED 450 Teaching Reading in Content Lit*** (3)	
SEED 413 7-12 Science Methods*** (3)	
SEED 418 7-12 Math Methods*** (3)	
EDFN 440 Classroom Management*** (1)	<b>Courses need to be taken together</b>

\* Professional Electives – Mathematics & Science Education Majors need one professional elective

\*\* Only one of these two courses is required. Other can be used as elective

\*\*\* Admitted to Teacher Education required for enrollment

\*\*\*\* Science Emphasis classes need to be worked into this plan