

Mathematics, B.A. with a Minor in Secondary Education

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Degree Requirements

A Major in Mathematics for the B.A. degree consists of a minimum of 34 credit hours of approved mathematics (MATH), operations research (OPRS), or statistics (STAT) courses, one programming course in computer science (ITSC), and 18 credit hours of approved related coursework in an area outside of the department or an approved University minor from outside the department.

General Education Courses (15-19 credit hours)

For details on required courses, refer to the General Education Program. Total hours to satisfy General Education Requirements may vary as some general education requirements may be double-counted in the major with departmental approval. Please see your advisor for information.

Foreign Language (0-8 credit hours)

Students are required to demonstrate proficiency in the language of their choice through the 1202 level. For details on demonstrating proficiency refer to the College of Science Foreign Language Requirement in the Undergraduate Catalog.

Core Courses (28 credit hours)

ITSC 1212: Introduction to Computer Science

MATH 1241: Calculus I MATH 1242: Calculus II

MATH 2164: Matrices and Linear Algebra MATH 2167: Intro to Math Reasoning MATH 2171: Differential Equations

MATH 2241: Calculus III MATH 2242: Calculus IV

MATH 3163: Introduction to Modern Algebra

Restricted Elective Courses (12 credit hours)

MATH 3181: Fundamental Concepts of

Geometry

MATH 4109: History of Mathematical Thought

*STAT 3122 or STAT 3128

*If students have not had any statistics.
Otherwise, select 3 credits of elective courses from MATH, STAT, or OPRS at the 3000-level or above.





Minor in Secondary Education Courses (41 credit hours)

MDSK 2100: Foundations of Education in

Secondary Schools.

MDSK 3100: Inclusive Classrooms MDSK 3151: Instructional Design and

Technology Integration

MDSK 4210: Classroom Leadership SECD 4140: Adolescence and Secondary

Schools

MAED 4252: Teaching Mathematics to Middle

and Secondary School Learners

MDSK 4300: Content Area Instruction and

Assessment

MAED 4103: Using Technology to Teach

Secondary School Mathematics

MAED 4105: Highschool Mathematics from

an Advanced Standpoint

SECD 4440: Inclusive Classrooms

Unrestricted Elective Courses

As needed to complete the 120 credit hours required for graduation.

Other Important Requirements:

Minimum 120 credit hours (all courses)

Minimum overall GPA of 2.0 (all courses)

Minimum major GPA of 2.0 (degree courses)



Academic Plan of Study B.A. in Mathematics, with Minor in Secondary Education

Name:	ID:
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Freshman Year						
				II		
Course ID	Course Name	Grade	Course ID	Course Name	Grade	
MATH 1241	Calculus I		MATH 1242	Calculus II		
WRDS 1103/1104	Writing and Inquiry in Academic Contexts		ITSC 1212	Introduction to Computer Science		
XXXX	Theme Course		XXXX	Theme Course		
XXXX	Natural Science		XXXX	Natural Science with Lab		
FORL 1101/1201	Foreign Language or elective		FORL 1101/1201	Foreign Language or elective		

	Sophomore Year						
	I	II .					
Course ID	Course Name	Grade	e Course ID Course Name				
MATH 2241	Calculus III		MATH 2242	Calculus IV			
MATH 2164	Matrices and Linear Algebra		MATH 2167	Intro to Mathematical Reasoning			
MATH 2171	Differential Equations		MATH 3181 Fundamental Concepts of Geometry				
XXXX	Theme Course		XXXX	Theme Course			
CTCM 2530	Critical Thinking and Communication		MDSK 2100	Foundations of Ed in Sec Schools			

Junior Year State of the State					
			II		
Course ID	Course Name	Grade	Course ID Course Name		
*STAT XXXX	STAT 3122 or STAT 3128		XXXX	Elective or as needed	
MATH 3163	Intro to Modern Algebra		MATH 3 or 4xxx	Upper-level Math elective	
MATH 4109	History of Mathematical Thought		SECD 4140 Adolescence and Secondary Schools		
MDSK 3100	Inclusive Classrooms		MDSK 3151 Intructional Design and Tech Integration		
MDSK 4210	Classroom Leadership (2 credits)		MAED 4103 Using Tech to Teach Sec School Math		

Senior Year						
				II		
Course ID	Course Name	Grade	Course ID	Course Name	Grade	
MAED 4105	Highschool Math from Adv Standpoint					
MDSK 4300	Content Area Instruction & Assessment		SECD 4400	Student Teaching (15 credits)		
MAED 4252	Teaching Math to Sec School Learners					
XXXX	Elective or as needed					

Color Legend	
	Minor
	General Education

MAED 4103 Springs only

MATH 4109 Falls only
MAED 4105 Falls only
MAED 4252 Falls only

MATH 3 or 4xxx Upper-level Math elective

Suggested: MATH/STAT 3123, MATH 3116, MATH 3141

*If students have not had any statistics. Otherwise, select 3 credits of elective courses from MATH, STAT, OPRS 3xxx or 4xxx.

B.A. in Mathematics with a Minor in Secondary Education

Name:	From AY 2024-2025

Core Courses	Semester/Year	Grade
ITSC 1212+L- Introduction to Computer ScienceI		
MATH 1241- Calculus I		
MATH 1242- Calculus II		
MATH 2164- Matrices and Linear Algebra		
MATH 2167- Introduction to Mathematical Reasoning		
MATH 2171- Differential Equations		
MATH 2241- Calculus III		
MATH 2242- Calculus IV		
MATH 2688- Mathematics Awareness Seminar (WAIVE)		
MATH 3163- Introduction to Modern Algebra		
MATH 3689- Senior project (WAIVE)		

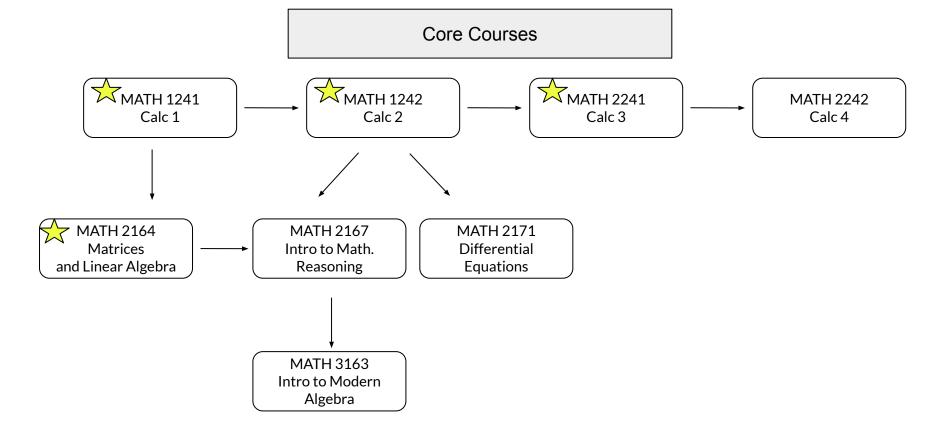
Restricted Elective Courses: from MATH, STAT, or OPRS at the 3000-level or above.

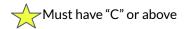
Course Number	Semester/Year	Grade
1.) MATH 3181- Fundamental Concepts of Geometry		
2.) MATH 4109- History of Mathematical Thought		
3.) *		
4.)		

^{*}If students have not had any statistics at any level (such as STAT 1220 or 1222), they are required to take either STAT 3122 or STAT 3128 as one of their upper-level math courses. If they have already had statistics, they can take any courses to complete the required upper-level math courses.

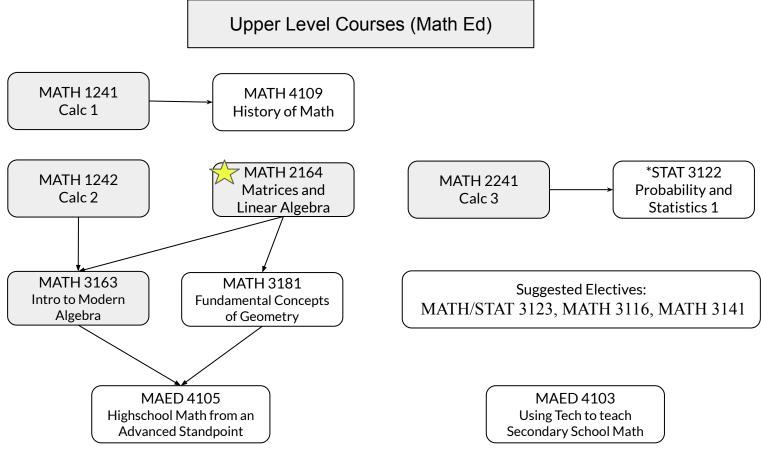
Minor in Secondary Education Courses:	Semester/Year	Grade
MDSK 2100 (Sophomore year)		
MDSK 3100 (Junior year, semester 1)		
MDSK 4210 (Junior year, semester 1)		
MDSK 3151 (Junior year, semester 2)		
SECD 4140 (Junior year, semester 2)		
MAED 4252 (Senior year, semester 3)		
MDSK 4300 (Senior year, semester 3)		
SECD 4440 (Senior year, semester 4, 15 credit hours of student teaching)		
MAED 4103 (offered in Spring semesters only)		
MAED 4105 (offered in Fall semesters only)		

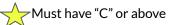
Check DegreeWorks for General Education and College's Foreign Language Requirements. A minimum of 120 credits are required for graduation.





B.A. in Math





*Students with GenEd exception. Otherwise, any STAT.

Core course

Minor in Secondary Education

