

RECOMMENDED ACADEMIC PLAN – MATHEMATICAL SCIENCES • Secondary Education Option

Semester I		Semester II	
*ENGL 015 Rhetoric and Composition or 030 Honors Freshmen Composition GWS	3	CAS 100 Effective Speech GWS	3
*MATH 140 Calculus With Analytic Geometry I GQ	4	*MATH 141 GQ Calculus with Analytic Geometry II GQ	4
Humanities GH	3	Arts GA	3
Social and Behavioral Sciences GS	3	Sciences GN	3
Health and Physical Education GHA	1.5	<i>HDFS 239 Adolescent Development GS</i>	3
First-Year Seminar	1		
	15.5		16
Semester III		Semester IV	
CMPS 121 Introduction to Programming Techniques GQ	3	<i>ENGL 202C Effective Writing: Technical Writing</i>	3
MATH 230 Calculus and Vector Analysis GQ	4	MATH 220 Matrices GQ	2
*Select English Literature GH	3	MATH 250 Ordinary Differential Equations GQ	3
Sciences GN	3	Arts GA	3
Health and Physical Education	1.5	Select any 100-400 level support course	3
	14.5		14
Semester V		Semester VI	
EDUC 313 Field Observation	2	EDUC 315 Social and Cultural Factors in Education US	3
EDUC 314 Learning Theory and Instructional Procedures	3	MATH 427 Foundations of Geometry	3
MATH 315 Foundations of Mathematics	3	MATH 435 Basic Abstract Algebra	3
MATH 430 Linear Algebra and Discrete Models I	3	STAT 301 Statistical Analysis I	3
Sciences GN	3	Select any 200-400 level support course	3
Select any 300-400 level support course in Computer Science, Education, Mathematics, or Statistics	3		
	17		15
Semester VII		Semester VIII	
EDUC 417 Teaching Secondary Mathematics	3	EDUC 490 Student Teaching	12
MATH 475W Introduction to the History of Mathematics US; IL	3	Select any 300-400 level support course in Computer Science, Education, Mathematics, or Statistics	3
MATH 435 Basic Abstract Algebra	3		
Select from MATH 425 Introduction to Operations Research or MATH 450 Mathematical Modeling	3		
Select any 300-400 level support course in Computer Science, Education, Mathematics, or Statistics	3		
	17		15

Advising Notes

- **Bold type** require a grade of C or better.
- *Italics* indicates courses that satisfy both major and General Education requirements.
- **Bold Italics** indicates courses requiring a quality grade of C or better and that satisfy both major and General Education requirements.
- GWS, GHA, GQ, GN, GA, GH, and GS are codes used to identify General Education requirements.
- US, IL, and US;IL are codes used to designate courses that satisfy University United States/International Cultures requirements.
- W is the code used to designate courses that satisfy University Writing Across the Curriculum requirements.

Courses required for the major must generally be taken within 10 years of entrance to the major, with the exception of ENGL 202D

*Student must complete, with a grade of "C" or higher, six (6) credits of college level mathematics, three (3) credits of college level English literature and three (3) credits of college level English composition. Students must also complete MATH 140 and MATH 141 for entrance to the Secondary Education Option of Mathematical Sciences.

Students must complete a 3-credit course in "United States Cultures (US)" and a 3-credit course in "International Cultures (IL)."

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