

# RECOMMENDED ACADEMIC PLAN – MATHEMATICAL SCIENCES

Semester I		Semester II	
ENGL 015 Rhetoric and Composition or 030 Honors Freshmen Composition GWS	3	CAS 100 Effective Speech GWS	3
<b>*MATH 140 Calculus With Analytic Geometry I GQ</b>	4	<b>*MATH 141 GQ Calculus with Analytic Geometry II GQ</b>	4
Humanities GH	3	Arts GA	3
Social and Behavioral Sciences GS	3	Sciences GN	3
Health and Physical Education GHA	1.5	Social and Behavioral Sciences GS	3
First-Year Seminar	1		
	15.5		16
Semester III		Semester IV	
CMPS 121 Introduction to Programming Techniques GQ	3	ENGL 202C Effective Writing: Technical Writing	3
MATH 230 Calculus and Vector Analysis GQ	4	MATH 220 Matrices GQ	2
Humanities GH	3	MATH 251 Ordinary and Partial Differential Equations GQ	4
Sciences GN	3	Arts GA	3
Health and Physical Education	1.5	Sciences GN	3
	14.5		15
Semester V		Semester VI	
<b>MATH 315 Foundations of Mathematics</b>	3	<b>CMPS 452 Numerical Analysis I</b>	3
<b>MATH 430 Linear Algebra and Discrete Models I</b>	3	<b>MATH 312 Concepts of Real Analysis</b>	3
MATH 475W Introduction to the History of Mathematics US;IL	3	STAT 301 Statistical Analysis I	3
Select any 200-400 level General Elective	3	Select any 200 level support course	3
<sup>^</sup> Select any 300-400 level Mathematics	3	<sup>^</sup> Select any 300-400 level Mathematics	3
	15		15
Semester VII		Semester VIII	
MATH 414 Introduction to Probability Theory	3	MATH 450 Mathematical Modeling	3
MATH 435 Basic Abstract Algebra	3	<sup>^</sup> Select 300-400 Mathematics	6
<sup>^</sup> Select any 300-400 Mathematics	6	Select any 300-400 General Elective	6
Select any 300-400 General Elective	3		
	15		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.

\*Entry to major requirement.

<sup>^</sup> In consultation with adviser, select 18 credits of 300-400 level Mathematics courses or SSET 295. Up to six credits may be replaced by any 200 or greater level CMPS courses or CMPS 122.

**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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