MATHEMATICS MAJOR: STANDARD PROGRAM

Program Requirements

All standard majors require a minor in a second discipline or a second major.

A minimum of 41 credits is required, including the 25-credit Mathematics Core:

Code	Title	Credits
Mathematics Co	re	
CS 190	Computer Science I	3
MATH 151	Calculus I (GT-MA1)	4
MATH 251	Calculus II	4
MATH 260	Applied Linear Algebra	3
MATH 451	Analysis I	3
MATH 471	Abstract Algebra I	3
MATH 495	Senior Seminar	2
Choose one of the	ne following:	3
MATH 200	Discrete Mathematics	
MATH 220	Introduction to Advanced Mathematics	
Total Credits		25

And at least 16 credits from the following:

Code	Title	Credits
Select at least 16 credits from the following:		
CS 191	Computer Science II	
MATH 213	Probability and Statistics (GT-MA1)	
MATH 252	Calculus III	
Any upper-division mathematics course excluding MATH 323, MATH 367, and MATH 390		

Total Credits

College Algebra ready

Course	Title	Credits
Year One		
Fall		
HWTR 100	First Year Seminar	1
MATH 140	College Algebra (GT-MA1)	3
ENG 102	Writing and Rhetoric I (GT-C01)	3
Gen Ed	Arts & Humanities	3
Elective	Elective/Minor	3
Elective	Elective/Minor	3
	Credits	16
Spring		
CS 190	Computer Science I	3
MATH 141	Precalculus (GT-MA1)	4
Gen Ed	Social Sciences	3
Gen Ed	Arts & Humanities	3
Elective	Elective/Minor	3
	Credits	16
Year Two		
Fall		
MATH 151	Calculus I (GT-MA1)	4

	Total Credits	120
	Credits	14
Elective	Elective (upper division)/Minor	9
MATH 495	Senior Seminar	2
MATH 471	Abstract Algebra I	3
Spring	Credits	15
Elective	Elective (upper division)/Minor	9
Elective	MATH Elective (upper division)	3
MATH 451	Analysis I	3
Fall		
Year Four		
	Credits	15
Elective	Elective (upper division)/Minor	3
Elective	Elective/Minor	3
Gen Ed	Arts & Humanities	3
MATH Elective	MATH Elective (upper division)	6
Spring	5.53.10	13
LICOTIVE	Credits	15
Elective	Social Sciences Elective/Minor	6
MATH Elective Gen Ed	MATH Elective Social Sciences	3
MATH Floating	Introduction to Advanced Mathematics	3
Fall		_
Year Three		
	Credits	14
Gen Ed	Natural Sciences w/lab	4
MATH Elective	MATH Elective	3
MATH 251	Calculus II	4
ENG 103	Writing and Rhetoric II (GT-CO2)	3
Spring		
	Credits	15
Elective	Elective/Minor	1
Gen Ed	Social Sciences	3
Gen Ed	Natural Sciences w/lab	4
MATH 260	Applied Linear Algebra	3

Calculus Ready

Course	Title	Credits
Year One		
Fall		
HWTR 100	First Year Seminar	1
MATH 151	Calculus I (GT-MA1)	4
MATH 260	Applied Linear Algebra	3
ENG 102	Writing and Rhetoric I (GT-CO1)	3
Gen Ed	Arts & Humanities	3
	Credits	14
Spring		
CS 190	Computer Science I	3
MATH 251	Calculus II	4
Gen Ed	Social Sciences	3
Gen Ed	Arts & Humanities	3
Elective	Elective/Minor	3
	Credits	16
Year Two		
Fall		
MATH 220	Introduction to Advanced Mathematics	3
Gen Ed	Natural Sciences w/lab	4
Gen Ed	Social Sciences	3

Credits Spring ENG 103 Writing and Rhetoric II (GT-CO2) Elective MATH Elective Elective Elective/Minor Gen Ed Natural Sciences w/lab Credits Year Three Fall Elective MATH Elective (upper division) Elective MATH Elective Elective MATH Elective Elective MATH Elective Elective MATH Elective (upper division) Elective Elective/Minor Gen Ed Social Sciences Credits Spring MATH 471 Abstract Algebra I Elective MATH Elective (upper division) Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Gen Ed Arts & Humanities Credits Year Four Fall MATH 451 Analysis I Elective Elective (upper division) Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor Credits Total Credits Total Credits	Elective	Elective/Minor	6
ENG 103 Writing and Rhetoric II (GT-CO2) Elective MATH Elective Elective MATH Elective (upper division) Elective Elective/Minor Gen Ed Natural Sciences w/lab Credits Year Three Fall Elective MATH Elective (upper division) Elective Elective/Minor Gen Ed Social Sciences Credits Spring MATH 471 Abstract Algebra I Elective MATH Elective (upper division) Elective Elective (upper division) Elective Elective (upper division) Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Elective Elective (upper division) Fall MATH 451 Analysis I Elective Elective (upper division) Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor		Credits	16
Elective MATH Elective Elective (upper division) Elective Elective (upper division) Elective Elective/Minor Gen Ed Natural Sciences w/lab Credits Year Three Fall Elective MATH Elective Elective (upper division) Elective Elective (upper division) Elective Elective Elective/Minor Gen Ed Social Sciences Credits Spring MATH 471 Abstract Algebra I Elective MATH Elective (upper division) Elective Elective (upper division) Elective Elective (upper division) Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Gen Ed Arts & Humanities Credits Year Four Fall MATH 451 Analysis I Elective MATH Elective (upper division) Elective Elective/Minor Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor	Spring		
Elective MATH Elective (upper division) Elective Elective/Minor Gen Ed Natural Sciences w/lab Credits Year Three Fall Elective MATH Elective Elective (upper division) Elective Elective/Minor Gen Ed Social Sciences Credits Spring MATH 471 Abstract Algebra I Elective (upper division) Elective Elective (upper division) Elective Elective (upper division) Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Gen Ed Arts & Humanities Credits Year Four Fall MATH 451 Analysis I Elective (upper division)/Minor Elective Elective (upper division) Elective Elective (upper division) Elective Elective (upper division) Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor	ENG 103	Writing and Rhetoric II (GT-CO2)	3
Elective Elective/Minor Gen Ed Natural Sciences w/lab Credits Year Three Fall Elective MATH Elective Elective (upper division) Elective Elective/Minor Gen Ed Social Sciences Credits Spring MATH 471 Abstract Algebra I Elective (upper division) Elective Elective (upper division) Elective Elective (upper division) Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Gen Ed Arts & Humanities Credits Year Four Fall MATH 451 Analysis I Elective (upper division)/Minor Elective Elective (upper division) Elective Elective (upper division) Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor Elective Elective Elective/Minor	Elective	MATH Elective	3
Gen Ed Natural Sciences w/lab Credits Year Three Fall Elective MATH Elective (upper division) Elective Elective/Minor Gen Ed Social Sciences Credits Spring MATH 471 Abstract Algebra I Elective Elective (upper division) Elective Elective (upper division) Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Gen Ed Arts & Humanities Credits Year Four Fall MATH 451 Analysis I Elective MATH Elective (upper division) Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor	Elective	MATH Elective (upper division)	3
Credits Year Three Fall Elective MATH Elective (upper division) Elective Elective/Minor Gen Ed Social Sciences Credits Spring MATH 471 Abstract Algebra I Elective MATH Elective (upper division) Elective Elective (upper division) Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Gen Ed Arts & Humanities Credits Year Four Fall MATH 451 Analysis I Elective MATH Elective (upper division) Elective Elective (upper division) Elective Elective (upper division) Elective Elective (upper division) Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor	Elective	Elective/Minor	3
Year Three Fall Elective MATH Elective Elective (upper division) Elective Elective/Minor Gen Ed Social Sciences Credits Spring MATH 471 Abstract Algebra I Elective MATH Elective (upper division) Elective Elective (upper division) Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Elective Elective (upper division) Teall MATH 451 Analysis I Elective MATH Elective (upper division) Elective Elective/Minor Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor	Gen Ed	Natural Sciences w/lab	4
Fall Elective MATH Elective Elective (upper division) Elective Elective/Minor Gen Ed Social Sciences Credits Spring MATH 471 Abstract Algebra I Elective MATH Elective (upper division) Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Gen Ed Arts & Humanities Credits Year Four Fall MATH 451 Analysis I Elective MATH Elective (upper division) Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Credits Spring MATH 451 Analysis I Elective Elective (upper division) Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor		Credits	16
Elective MATH Elective (upper division) Elective Elective/Minor Gen Ed Social Sciences Credits Spring MATH 471 Abstract Algebra I Elective MATH Elective (upper division) Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Gen Ed Arts & Humanities Credits Year Four Fall MATH 451 Analysis I Elective MATH Elective (upper division) Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Credits Spring MATH 451 Analysis I Elective Elective (upper division) Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor	Year Three		
Elective MATH Elective (upper division) Elective Elective/Minor Gen Ed Social Sciences Credits Spring MATH 471 Abstract Algebra I Elective MATH Elective (upper division) Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Gen Ed Arts & Humanities Credits Year Four Fall MATH 451 Analysis I Elective MATH Elective (upper division) Elective Elective (upper division) Elective Elective (upper division) Elective Elective (upper division) Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor	Fall		
Elective Elective/Minor Gen Ed Social Sciences Credits Spring MATH 471 Abstract Algebra I Elective MATH Elective (upper division) Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Gen Ed Arts & Humanities Credits Year Four Fall MATH 451 Analysis I Elective MATH Elective (upper division) Elective Elective/Minor Elective Elective/Minor Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor	Elective	MATH Elective	3
Gen Ed Social Sciences Credits Spring MATH 471 Abstract Algebra I Elective MATH Elective (upper division) Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Gen Ed Arts & Humanities Credits Year Four Fall MATH 451 Analysis I Elective MATH Elective (upper division) Elective Elective/Minor Elective Elective/Minor Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor	Elective	MATH Elective (upper division)	3
Credits Spring MATH 471 Abstract Algebra I Elective MATH Elective (upper division) Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Gen Ed Arts & Humanities Credits Year Four Fall MATH 451 Analysis I Elective MATH Elective (upper division) Elective Elective/Minor Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor	Elective	Elective/Minor	6
Spring MATH 471 Abstract Algebra I Elective MATH Elective (upper division) Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Gen Ed Arts & Humanities Credits Year Four Fall MATH 451 Analysis I Elective MATH Elective (upper division) Elective Elective/Minor Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor	Gen Ed	Social Sciences	3
MATH 471 Abstract Algebra I Elective MATH Elective (upper division) Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Gen Ed Arts & Humanities Credits Year Four Fall MATH 451 Analysis I Elective MATH Elective (upper division) Elective Elective/Minor Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Credits Elective Elective (upper division)/Minor		Credits	15
Elective MATH Elective (upper division) Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Gen Ed Arts & Humanities Credits Year Four Fall MATH 451 Analysis I Elective MATH Elective (upper division) Elective Elective/Minor Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Lective (upper division)/Minor Elective Elective (upper division)/Minor	Spring		
Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Gen Ed Arts & Humanities Credits Year Four Fall MATH 451 Analysis I Elective MATH Elective (upper division) Elective Elective/Minor Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Credits Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor	MATH 471	Abstract Algebra I	3
Elective Elective (upper division)/Minor Gen Ed Arts & Humanities Credits Year Four Fall MATH 451 Analysis I Elective MATH Elective (upper division) Elective Elective/Minor Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor Elective Elective Elective (upper division)/Minor	Elective	MATH Elective (upper division)	3
Gen Ed Arts & Humanities Credits Year Four Fall MATH 451 Analysis I Elective MATH Elective (upper division) Elective Elective/Minor Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Credits	Elective	Elective (upper division)/Minor	3
Credits Year Four Fall MATH 451 Analysis I Elective MATH Elective (upper division) Elective Elective/Minor Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Credits	Elective	Elective (upper division)/Minor	3
Year Four Fall MATH 451 Analysis I Elective MATH Elective (upper division) Elective Elective/Minor Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Credits	Gen Ed	Arts & Humanities	3
Fall MATH 451 Analysis I Elective MATH Elective (upper division) Elective Elective/Minor Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Credits		Credits	15
MATH 451 Analysis I Elective MATH Elective (upper division) Elective Elective/Minor Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Elective Credits	Year Four		
Elective MATH Elective (upper division) Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Elective Elective (upper division)/Minor Elective Credits	Fall		
Elective Elective/Minor Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor Elective Elective (Credits) Credits	MATH 451	Analysis I	3
Elective Elective (upper division)/Minor Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor Elective Credits	Elective	MATH Elective (upper division)	3
Credits Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor Elective Elective/Minor Credits	Elective	Elective/Minor	3
Spring MATH 495 Senior Seminar Elective Elective (upper division)/Minor Elective Credits	Elective	Elective (upper division)/Minor	6
MATH 495 Senior Seminar Elective Elective (upper division)/Minor Elective Elective/Minor Credits		Credits	15
Elective Elective (upper division)/Minor Elective Elective/Minor Credits	Spring		
Elective Elective/Minor Credits	MATH 495	Senior Seminar	2
Credits	Elective	Elective (upper division)/Minor	9
	Elective	Elective/Minor	3
Total Credits		Credits	14
		Total Credits	121