Four-Year Degree Plan for Major in Mathematical Programming

Note that this is a sample four-year plan. There are other course sequences that will allow a student to graduate within four years as long as prerequisite courses are taken in the proper sequence. This sample plan does not guarantee course availability, and adjustments to students' plans may be necessary if they are unable to take specific courses during specific semesters. Students who are placed into lower level AWR, MAT or other prerequisite courses will need to adjust their four-year plans accordingly. Similarly, students who bring in Advanced Placement, Dual Enrollment or transfer credit for courses will need to adjust their four-year plans. A minimum of a 2.0 GPA both overall and in the major is required for graduation. In addition to major requirements, all components of the Baccalaureate Experience must be completed in order to successfully graduate. A student must earn a minimum of 124 credit hours to qualify for the Bachelor of Science degree in

Mathematical	Programming.		
First (Freshma	n) Year - Fall Semester		
MAT 260	Calculus I		4
AWR 101	Writing and Inquiry		4
	or		
	Humanities/Fine Arts or	Social	4
	Science (Bacc. Exp.)		
BAC 101	BAC 101 / Pathways to Honors	1	1
	Natural Science (Bacc. Exp.)		3
	Humanities / Fine Arts or	Social	4
	Science (Bacc. Exp.)		
		Subtotal:	16
First (Freshma	n) Year - Spring Semester		
MAT 261	Calculus II		4
AWR 101	Writing and Inquiry		4
	or		
	Humanities / Fine Arts or	Social	4
	Science (Bacc. Exp.)		
BAC 102	BAC 102 / Pathways to Honors	2	1
	and		
	Humanities / Fine Arts or	Social	4
	Science (Bacc. Exp.)		
		Subtotal:	13

Second (Sophomore) Year - Fall Semester

Calculus III

or

Application Development

Writing and Research

General Elective

Natural Science (Bacc. Exp.)

4

3

4

Subtotal: 15

MAT 262

ITM 251

AWR 201

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	General Elective	C	4
		Subtotal	: 16
Third (Junior) Year - Fall Semester		
MAT 300	Differential Equations		4
	or		
MAT 301 MAT 308	Discrete Mathematics		4
	or		
	Linear Algebra		4
ITM	and		
	Elective		4
	Humanities / Fine Arts or	Social	4
	Science (Bacc. Exp.)		
	General Elective		4
		Subtotal	: 1
-) Year - Spring Semester		
MAT 300	Differential Equations		4
	or		
MAT 301	Discrete Mathematics		4
NAAT 200	or		
MAT 308	Linear Algebra		4
	and		
ITM	Elective		4
	Humanities / Fine Arts or	Social	4
	C : /D = \		
	Science (Bacc. Exp.)		4
	Science (Bacc. Exp.) General Elective	Cubasas	4
		Subtotal	
Fourth (Seni	General Elective	Subtotal	
-	General Elective or) Year - Fall Semester	Subtotal	: 1
Fourth (Seni	General Elective or) Year - Fall Semester Differential Equations	Subtotal	
MAT 300	or) Year - Fall Semester Differential Equations or	Subtotal	: 1
-	or) Year - Fall Semester Differential Equations or Discrete Mathematics	Subtotal	: 1
MAT 300 MAT 301	or) Year - Fall Semester Differential Equations or Discrete Mathematics or	Subtotal	: 1 4
MAT 300	or) Year - Fall Semester Differential Equations or Discrete Mathematics or Linear Algebra	Subtotal	: 1
MAT 300 MAT 301	or) Year - Fall Semester Differential Equations or Discrete Mathematics or Linear Algebra and		4 4
MAT 300 MAT 301	or) Year - Fall Semester Differential Equations or Discrete Mathematics or Linear Algebra and Humanities / Fine Arts or		4 4
MAT 300 MAT 301	or) Year - Fall Semester Differential Equations or Discrete Mathematics or Linear Algebra and Humanities / Fine Arts or Science (Bacc. Exp.)		4 4 4 4
MAT 300 MAT 301	or) Year - Fall Semester Differential Equations or Discrete Mathematics or Linear Algebra and Humanities / Fine Arts or Science (Bacc. Exp.) General Elective		4 4 4 4
MAT 300 MAT 301	or) Year - Fall Semester Differential Equations or Discrete Mathematics or Linear Algebra and Humanities / Fine Arts or Science (Bacc. Exp.)	Social	4 4 4 4 4
MAT 300 MAT 301	or) Year - Fall Semester Differential Equations or Discrete Mathematics or Linear Algebra and Humanities / Fine Arts or Science (Bacc. Exp.) General Elective		4 4 4 4 4
MAT 300 MAT 301 MAT 308	General Elective or) Year - Fall Semester Differential Equations or Discrete Mathematics or Linear Algebra and Humanities / Fine Arts or Science (Bacc. Exp.) General Elective General Elective	Social	4 4 4 4 4
MAT 300 MAT 301 MAT 308	or) Year - Fall Semester Differential Equations or Discrete Mathematics or Linear Algebra and Humanities / Fine Arts or Science (Bacc. Exp.) General Elective	Social	4 4 4 4 4 2:1
MAT 300 MAT 301 MAT 308 Fourth (Senic	or) Year - Fall Semester Differential Equations or Discrete Mathematics or Linear Algebra and Humanities / Fine Arts or Science (Bacc. Exp.) General Elective General Elective or) Year - Spring Semester Senior Seminar	Social	4 4 4 4 4 2: 1
MAT 300 MAT 301 MAT 308 Fourth (Senic	or) Year - Fall Semester Differential Equations or Discrete Mathematics or Linear Algebra and Humanities / Fine Arts or Science (Bacc. Exp.) General Elective General Elective or) Year - Spring Semester Senior Seminar General Elective	Social	4 4 4 4 4 1 1
MAT 300 MAT 301 MAT 308 Fourth (Senic	or) Year - Fall Semester Differential Equations or Discrete Mathematics or Linear Algebra and Humanities / Fine Arts or Science (Bacc. Exp.) General Elective General Elective or) Year - Spring Semester Senior Seminar General Elective General Elective General Elective	Social	4 4 4 4 4 1 1 4
MAT 300 MAT 301 MAT 308 Fourth (Senic	or) Year - Fall Semester Differential Equations or Discrete Mathematics or Linear Algebra and Humanities / Fine Arts or Science (Bacc. Exp.) General Elective General Elective or) Year - Spring Semester Senior Seminar General Elective	Social	4 4 4 4 4 2 1:1

Second (Sophomore) Year - Spring Semester

Science (Bacc. Exp.)

Writing and Research

Introduction to Higher Mathematics

Advanced Application Development Humanities / Fine Arts or Social

4

MAT 299

ITM 360

AWR 201