

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 (Freshman) Year - Fall Semester

MAT 260	Calculus I	4
AWR 101	Writing and Inquiry	4
	or	
	Humanities/Fine Arts or Social Science (Bacc. Exp.)	4
BAC 101	BAC 101 / Pathways to Honors 1	1
	Natural Science (Bacc. Exp.)	3
	Humanities / Fine Arts or Social Science (Bacc. Exp.)	4
		Subtotal: 16

First (Freshman) Year - Spring Semester

MAT 261	Calculus II	4
AWR 101	Writing and Inquiry	4
	or	
	Humanities / Fine Arts or Social Science (Bacc. Exp.)	4
BAC 102	BAC 102 / Pathways to Honors 2	1
	and	
	Humanities / Fine Arts or Social Science (Bacc. Exp.)	4
		Subtotal: 13

Second (Sophomore) Year - Fall Semester

MAT 262	Calculus III	4
ITM 251	Application Development	4
	Natural Science (Bacc. Exp.)	3
AWR 201	Writing and Research	4
	or	
	General Elective	4
		Subtotal: 15

Second (Sophomore) Year - Spring Semester

MAT 299	Introduction to Higher Mathematics	4
ITM 360	Advanced Application Development	4
	Humanities / Fine Arts or Social Science (Bacc. Exp.)	4
AWR 201	Writing and Research	4
	or	
	General Elective	4
		Subtotal: 16

Third (Junior) Year - Fall Semester

MAT 300	Differential Equations	4
	or	
MAT 301	Discrete Mathematics	4
	or	
MAT 308	Linear Algebra	4
	and	
ITM	Elective	4
	Humanities / Fine Arts or Social Science (Bacc. Exp.)	4
	General Elective	4
		Subtotal: 16

Third (Junior) Year - Spring Semester

MAT 300	Differential Equations	4
	or	
MAT 301	Discrete Mathematics	4
	or	
MAT 308	Linear Algebra	4
	and	
ITM	Elective	4
	Humanities / Fine Arts or Social Science (Bacc. Exp.)	4
	General Elective	4
		Subtotal: 16

Fourth (Senior) Year - Fall Semester

MAT 300	Differential Equations	4
	or	
MAT 301	Discrete Mathematics	4
	or	
MAT 308	Linear Algebra	4
	and	
	Humanities / Fine Arts or Social Science (Bacc. Exp.)	4
	General Elective	4
	General Elective	4
		Subtotal: 16

Fourth (Senior) Year - Spring Semester

MAT 490	Senior Seminar	1
	General Elective	4
	General Elective	4
	General Elective	4
	General Elective	3
		Subtotal: 16