

SAMPLE PROGRAM OF STUDY FOR STUDENTS ON PATHWAYS GEN ED

College of Science - Bachelor of Science
Major in Mathematics - Traditional Option
Total of 120 credit hours needed for graduation

There is considerable flexibility in designing a program of study. The example given below is not likely to fit every situation and is provided for information as you develop your own plan with your advisor.

Fall Semester Freshman			Credits
ENGL	1105	First-Year Writing (Pathway 1f – Foundational Discourse)	3
MATH	1225	Calculus of a Single Variable (Pathway 5f – Foundational Quantitative and Computational Thinking)	4
MATH	1004	Discovering Mathematics I (F)	1
MATH	1454	Intro to Math Problem-Solving ¹ (F)	3
		Pathway 2 Critical Thinking in the Humanities	3
		Pathway 3 Reasoning in the Social Sciences	3
			17

Spring Semester Freshman			Credits
ENGL	1106	First-Year Writing (Pathway 1f – Foundational Discourse)	3
MATH	1226	Calculus of a Single Variable (Pathway 5f – Foundational Quantitative and Computational Thinking)	4
MATH	1044	Discovering Mathematics II (S)	2
		Pathway 2 Critical Thinking in the Humanities	3
		Pathway 6d Critique & Practice in Design	3
			15

Fall Semester Sophomore			Credits
MATH	2114	Introduction to Linear Algebra	3
MATH	2204	Intro Multivariable Calculus	3
		Pathway 3 Reasoning in the Social Sciences	3
		Pathway 4 Reasoning in the Natural Sciences	3
		Pathway 6a Critique and Practice in the Arts	3
			15

Spring Semester Sophomore			Credits
MATH	2214	Intro Differential Equations (Pathway 5a – Advanced Quantitative and Computational)	3
MATH	3034	Introduction to Proofs	3
		Pathway 4 Reasoning in the Natural Sciences	3
		Pathway 7 Critical Analysis of Identity and Equity in the US	3
		Free Elective	3
			15

Fall Semester Junior			Credits
MATH	3124	Modern Algebra	3
MATH	3214	Calculus of Several Variables	3
		Pathway 1a – Advanced Discourse	3
		Free Elective	3
		Free Elective	3
			15

Spring Semester Junior			Credits
MATH	3144	Linear Algebra I	3
MATH	3224	Advanced Calculus	3
		Math-Related Course	3
		Free Elective	3
		Free Elective	3
			15

Fall Semester Senior			Credits
MATH	4xxx	4000-level sequence	3
MATH	4xxx	4000-level MATH course	3
		Math-Related Course	3
		Math-Related Course	3
		Free Elective	3
			15

Spring Semester Senior			Credits
MATH	4xxx	4000-level sequence	3
MATH	4xxx	4000-level MATH course	3
		Math-Related Course	3
		Free Elective	3
		Free Elective	3
			15

¹MATH 1225 is a corequisite for MATH 1454. Other courses may satisfy programming requirement. MATH 1454 recommended. Refer to approved checksheets for restrictions on Math 4xxx-level course requirements.

(F) = offered fall semesters only; (S) = offered spring semesters only