

SAMPLE PROGRAM OF STUDY FOR STUDENTS ON CLE GEN ED
 College of Science - Bachelor of Science
 Major in Mathematics - Applied Discrete Mathematics 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 (Area 1)	3
MATH	1225	Calculus of a Single Variable (Area 5)	4
MATH	1004	Discovering Mathematics I (F)	1
		Area 2 – Ideas, Cultural Traditions, and Values	3
		Area 3 – Society and Human Behavior	3
		Free Elective	3
			17

Spring Semester Freshman			Credits
ENGL	1106	First-Year Writing (Area 1)	3
MATH	1226	Calculus of a Single Variable (Area 5)	4
MATH	1044	Discovering Mathematics II (S)	2
CS	1114	Intro to Software Design	3
		Area 2 – Ideas, Cultural Traditions, and Values	3
			15

Fall Semester Sophomore			Credits
MATH	2114	Introduction to Linear Algebra	3
MATH	2204	Intro Multivariable Calculus	3
CS	2114	Software Design and Data Structures	3
		Area 3 – Society and Human Behavior	3
		Area 4 – Scientific Reasoning and Discovery	3
			15

Spring Semester Sophomore			Credits
MATH	2214	Intro Differential Equations	3
MATH	3034	Introduction to Proofs	3
CS	2505	Introduction to Computer Organization	3
		Area 6 – Creativity and Aesthetic Experience	3
		Area 4 – Scientific Reasoning and Discovery	3
			15

Fall Semester Junior			Credits
MATH	3124	Modern Algebra	3
MATH	3214	Calculus of Several Variables	3
MATH	3134	Applied Combinatorics	3
CS	3114	Data Structures and Algorithms	3
		Area 7 – Critical Issues in a Global Context	3
			15

Spring Semester Junior			Credits
MATH	3144	Linear Algebra I	3
MATH	3224	Advanced Calculus	3
STAT		STAT 4105, STAT 4705, or STAT 4714	3
		Free Elective	3
		Free Elective	3
			15

Fall Semester Senior			Credits
MATH	41xx	4000-level MATH course ¹	3
MATH	4xxx	4000-level MATH course	3
CS	4104	Data and Algorithm Analysis	3
		Free Elective	3
		Free Elective	3
			15

Spring Semester Senior			Credits
MATH	41xx	4000-level MATH course ¹	3
MATH	4xxx	4000-level MATH course	3
		Free Elective	3
		Free Elective	3
		Free Elective	3
			15

¹At least two courses from the following list must be taken: Math 4124 (F), 4134 (S), 4144 (S), 4175, 4176, 5114 (S), 5454 (F), 5464 (S).

Refer to approved checksheets for restrictions on Math 4xxx-level course requirements.
 (F) = offered fall semesters only; (S) = offered spring semesters only