

## HALMOS COLLEGE OF ARTS AND SCIENCES SAMPLE FOUR YEAR CURRICULUM | 2021-2022 CATALOG Bachelor of Science - Mathematics

Freshman Year			
Fall		Winter	
Course	<b>Credits</b>	Course	Credits
Open Written Communication	3	Open Written Communication	3
Open Arts & Humanities	3	Open Arts & Humanities	3
MATH 2100 Calculus I	4	MATH 2200 Calculus II	4
Open Elective	3	MATH 3300 Introductory Linear Algebra	3
UNIV 1000	3	Open Elective	3
Total Credits	16	Total Credits	16
	Sophor	nore Year	
Fall		Winter	
Course	<u>Credits</u>	Course	<u>Credits</u>
Open Social & Behavioral Sciences	3	Open Social & Behavioral Sciences	3
Laboratory Science Course	4	Laboratory Science Course	4
Open Elective	3	MATH 3400 Ordinary Differential Equations	3
MATH 3200 Calculus III	4	MATH 2500 Introduction to Advanced Mathematics *	3
		Open Elective	3
Total Credits	14	Total Credits	16
	Junio	or Year	
5.44	2		
Fall		Winter	0 11
Course	<u>Credits</u>	Winter <u>Course</u>	Credits
<u>Course</u> MATH 4350 Abstract Algebra I**	<u>Credits</u> 3	Winter <u>Course</u> MATH 4360 Abstract Algebra II***	3
<u>Course</u> MATH 4350 Abstract Algebra I** Major Elective	Credits 3 3	Winter <u>Course</u> MATH 4360 Abstract Algebra II*** Major Elective	3 3
<u>Course</u> MATH 4350 Abstract Algebra I** Major Elective Open Science ****/Open Elective	Credits 3 3 3	WinterCourseMATH 4360 Abstract Algebra II***Major ElectiveOpen Science ****/Open Elective	3 3 3
<u>Course</u> MATH 4350 Abstract Algebra I** Major Elective Open Science ****/Open Elective Open Elective	<u>Credits</u> 3 3 3 3 3	WinterCourseMATH 4360 Abstract Algebra II***Major ElectiveOpen Science ****/Open ElectiveOpen Elective	3 3 3 3
<u>Course</u> MATH 4350 Abstract Algebra I** Major Elective Open Science ****/Open Elective Open Elective Open Elective	<u>Credits</u> 3 3 3 3 3 3	WinterCourseMATH 4360 Abstract Algebra II***Major ElectiveOpen Science ****/Open ElectiveOpen ElectiveOpen ElectiveOpen Elective	3 3 3 3 3
<u>Course</u> MATH 4350 Abstract Algebra I** Major Elective Open Science ****/Open Elective Open Elective	<u>Credits</u> 3 3 3 3 3 3 15	WinterCourseMATH 4360 Abstract Algebra II***Major ElectiveOpen Science ****/Open ElectiveOpen ElectiveOpen ElectiveTotal Credits	3 3 3 3
<u>Course</u> MATH 4350 Abstract Algebra I** Major Elective Open Science ****/Open Elective Open Elective Open Elective <b>Total Credits</b>	<u>Credits</u> 3 3 3 3 3 3 15	WinterCourseMATH 4360 Abstract Algebra II***Major ElectiveOpen Science ****/Open ElectiveOpen ElectiveOpen ElectiveTotal Creditsor Year	3 3 3 3 3
<u>Course</u> MATH 4350 Abstract Algebra I** Major Elective Open Science ****/Open Elective Open Elective <b>Total Credits</b> <b>Fall</b>	<u>Credits</u> 3 3 3 3 3 15 Senio	Winter         Course         MATH 4360 Abstract Algebra II***         Major Elective         Open Science ****/Open Elective         Open Elective         Open Elective         Total Credits         Winter	3 3 3 3 15
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Course MATH 4350 Abstract Algebra I** Major Elective Open Science ****/Open Elective Open Elective Open Elective Total Credits Fall Course Major Elective	<u>Credits</u> 3 3 3 3 3 15 Senio <u>Credits</u> 3	Winter         Course         MATH 4360 Abstract Algebra II***         Major Elective         Open Science ****/Open Elective         Open Elective         Open Elective         Open Elective         Total Credits         Winter         Course         Major Elective	3 3 3 3 15 <u>Credits</u> 3
Course MATH 4350 Abstract Algebra I** Major Elective Open Science ****/Open Elective Open Elective Open Elective Total Credits Fall Course Major Elective Major Elective	<u>Credits</u> 3 3 3 3 3 15 Senio <u>Credits</u> 3 3	Winter         Course         MATH 4360 Abstract Algebra II***         Major Elective         Open Science ****/Open Elective         Open Elective         Open Elective         Total Credits         or Year         Major Elective	3 3 3 3 15 <u>Credits</u> 3 3
Course MATH 4350 Abstract Algebra I** Major Elective Open Science ***/Open Elective Open Elective Open Elective Total Credits  Fall  Course Major Elective Major Elective Open Elective Major Elective	<u>Credits</u> 3 3 3 3 3 15 Senio <u>Credits</u> 3 3 4	Winter         Course         MATH 4360 Abstract Algebra II***         Major Elective         Open Science ****/Open Elective         Open Elective         Open Elective         Total Credits         or Year         Major Elective         Major Elective         Major Elective         Open Science ****/Open Elective         Open Elective         Major Elective         Major Elective         Major Elective         Open Elective         Major Elective         Major Elective         Major Elective         Major Elective         Major Elective	3 3 3 3 15 <u>Credits</u> 3 3 3 3
Course MATH 4350 Abstract Algebra I** Major Elective Open Science ****/Open Elective Open Elective Open Elective Total Credits  Fall  Course Major Elective Major Elective Open Elective Open Elective Open Elective Open Elective Open Elective	<u>Credits</u> 3 3 3 3 3 15 Senio <u>Credits</u> 3 3 4 3	Winter         Course         MATH 4360 Abstract Algebra II***         Major Elective         Open Science ****/Open Elective         Open Elective         Open Elective         Total Credits         or Year         Major Elective	3 3 3 3 15 <u>Credits</u> 3 3
Course MATH 4350 Abstract Algebra I** Major Elective Open Science ****/Open Elective Open Elective Open Elective Total Credits  Fall Course Major Elective Major Elective Open Elective	<u>Credits</u> 3 3 3 3 3 3 15 Senio <u>Credits</u> 3 3 4 3 3 3	Course         MATH 4360 Abstract Algebra II***         Major Elective         Open Science ****/Open Elective         Open Elective         Open Elective         Total Credits         Winter         Course         Major Elective         Major Elective         Open Elective         Open Elective         Open Elective         Open Elective         Major Elective         Open Elective	3 3 3 3 <b>15</b> <u>Credits</u> 3 3 3 3 3
Course MATH 4350 Abstract Algebra I** Major Elective Open Science ****/Open Elective Open Elective Open Elective Total Credits  Fall  Course Major Elective Major Elective Open Elective Open Elective Open Elective Open Elective Open Elective	<u>Credits</u> 3 3 3 3 3 15 Senio <u>Credits</u> 3 3 4 3	Winter         Course         MATH 4360 Abstract Algebra II***         Major Elective         Open Science ****/Open Elective         Open Elective         Open Elective         Total Credits         or Year         Major Elective         Major Elective         Major Elective         Open Science ****/Open Elective         Open Elective         Major Elective         Major Elective         Major Elective         Open Elective         Major Elective         Major Elective         Major Elective         Major Elective         Major Elective	3 3 3 3 15 <u>Credits</u> 3 3 3 3

TOTAL CREDITS: 120

\*This requirement may also be fulfilled by completing CSIS 2050 Discrete Mathematics (4 Credits), which is offered Every Winter \*\*This requirement may also be fulfilled by completing MATH 4050 Advanced Calculus I, which is offered Even Year Fall. \*\*\*This requirement may also be fulfilled by completing MATH 4060 Advanced Calculus II, which is offered Odd Year Winter. \*\*\*This general education requirement is only needed if student took CSIS 2101/3101 as Laboratory Science Major Requirement \*\*\*\*This open elective can be for 3 credits if student took CSIS 2050 (4 Credits) in place of MATH 2500 (3 credits)