

Requirements of the College of Science: A minimum of 128 credit hours is required for a Bachelor of Science (B.S.) or a Bachelor of Arts (B.A.) degree, of which 42 credit hours must be earned in 300- and/or 400-level courses.

General Education Requirements: All degree-seeking students are required to meet general education requirements. Students are responsible for ensuring that courses chosen satisfy these requirements and are encouraged to consult with their academic advisor. Introduction to University Life is required for all newly admitted freshmen (not required for transfer students.).

300- and 400-Level Math Courses: An additional 20 credits in mathematics courses numbered 300 or above (excluding MTH 326, 327, 328, 329, and 330). Two of these courses must be 400 level or above.

Sample course schedule

B.S. in Mathematics

Equivalent courses for Mathematics Majors

		Total ch	* Tri-C	* Lakeland	* Lorain
Year 1					
Fall	MTH 181 Calculus I	4	MATH 1610	MATH 2500	MTHM 181
	ENG 101 College Writing I	4	ENG 1010	ENGL 1110 or 1111	ENGL 161
	PHY 241 University Physics I	5	PHYS 2310	PHYS 2410	PHYC 251
	ASC 101 Orientation	1			
	Gen Ed Elective (Social Science)	3			
		<u>17</u>			
		17			
Spring	MTH 182 Calculus II	4	MATH 1620	MATH 2600	MTHM 182
	ENG 102 College Writing II	3	ENG 1020	ENGL 1120	ENGL 162
	PHY 242 University Physics II	5	PHYS 2320	PHYS 2420	PHYC 252
	Gen Ed Elective (Art & Humanities)	3			
		<u>15</u>			
		15			32
Year 2					
Fall	MTH 281 Multivariable Calculus	4	MATH 2310	MATH 2700	MTHM 281
	MTH 288 Linear Algebra	4	MATH 2410	MATH 2800	MTHM 280
	Gen. Ed Elective (Art & Humanities)	3			
	Gen Ed Elective (Social Diversity)	3			
	Gen Ed Elective (Social Science)	3			
		<u>17</u>			
		17			49
Spring	MTH 220 Discrete Mathematics	4	MATH 2010	MATH 2700	MTHM 270
	CIS 260 Introduction to Programming	4	ITMP 2650	ITCS 1820 and 2820	CISS 226
	MTH 301 Introduction to Applied Mathematics	4			
	Gen Ed Elective (Social Diversity)	3			
		<u>15</u>			
		15			64
Year 3					
Fall	MTH 358 Abstract Algebra	4			
	MTH 381 Analysis	4			
	MTH 333 Geometry	4			
	PHY 330 Introduction to Modern Physics	4			
		<u>16</u>			
		16			80
Spring	MTH 396 Junior Seminar	2			
	PHY 340 Mechanics and Vibrations	4			
	PHY 350 Electricity and Magnetism	4			
	Elective	3			
	Elective	3			
		<u>16</u>			
		16			96
Year 4					
Fall	MTH 496 Senior Project	4			
	MTH 434 Differential Geometry	4			
	MTH 420 Combinatorial Mathematics	4			
	Elective	4			
		<u>16</u>			
		16			112
Spring	PHY 450 Optics and Electromagnetic Waves or elective	4			
	PHY 455 Optics Laboratory or elective	4			
	Elective	4			
	Elective	4			
		<u>16</u>			
		16			128

*All equivalent community college course work must be completed before transferring to CSU. Talk to your advisor for further details.