

Cleveland State University  
College of Sciences and Health Professions  
Bachelor of Science in Mathematics

**First Year**

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
ASC 101 Introduction to University Life	1		INTRO	ENG 102 English II	3		W/C
ENG 101 English I	3		W/C	MTH 182 Calculus II	4	X	M/QL
MTH 181 Calculus I	4	X	M/QL	PHY 241 University Physics I (or PHY 243)	5	X	NS
Social Science Elective**	3		SS	Arts & Humanities Elective**	3		A&H
Science Elective^	3	X		General Elective*	2		
<i>Semester Total</i>	14			<i>Semester Total</i>	17		

**Second Year**

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
MTH 281 Multivariable Calculus	4	X		MTH 286 Differential Equations	3	X	
MTH 220 Discrete Mathematics	3	X		MTH 288 Linear Algebra	3	X	
PHY 242 University Physics II (or PHY 244)	5	X	NS	US Diversity Elective	3		DIV
Social Science Elective**	3		SS	Science Elective^	3	X	
				General Elective*	3		
<i>Semester Total</i>	15			<i>Semester Total</i>	15		

**Third Year**

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
MTH 300-Level Course^^	3	X		MTH 396 Junior Seminar	2	X	
MTH 300-Level Course^^	3	X		MTH 358 Abstract Algebra (Recommended as 300-level elective)	3	X	WAC
Science Elective^	3	X		MTH 300-Level Course^^	3	X	
Arts & Humanities Elective**	3		A&H	African American Experience Elective	3		DIV
Upper-Division General Elective*	3			Science Elective^	3	X	
<i>Semester Total</i>	15			<i>Semester Total</i>	14		

**Fourth Year**

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
MTH 400-Level Course^^	3	X		MTH 400-Level Course^^	3	X	
MTH 400-Level Course^^	3	X		MTH 496 Senior Project	3	X	WAC; CAP
Writing Across the Curriculum Elective	3		WAC	Upper-Division General Elective*	3		
Upper-Division General Elective*	3			Upper-Division General Elective*	3		
Upper-Division General Elective*	3			General Elective*	3		
<i>Semester Total</i>	15			<i>Semester Total</i>	15		

**Degree Total (as listed in above sample): 120 (120 hours minimum required to earn degree)**

Assumptions: college-level readiness in MTH & ENG; no Foreign Language Deficiency

**College/ Program Notes:**

The plan above is a suggested guide to ensure that all General Education, College, University, and Major requirements are met within 4 years of study. Students may deviate from the suggested placement of Gen Ed courses, although the M/QL and W/C requirements should be completed during the first year of study.

\*Electives ensure that a student accumulates the minimum credit hour totals needed for graduation. Students must have a **minimum of 120 total credit hours**, of which a **minimum of 42 credit hours** must be upper division (300 or 400-level courses). Depending upon other elective choices made, students may not need as many electives as indicated above, or may need additional electives.

^Science Electives should be chosen from one or any combination of the following fields (courses numbered 200-level or higher): BIO, GEO, EVS, CHM, PHY, and CIS **OR** from STA 347,421,431,435,436,467. Please refer to the Undergraduate Catalog for more details.

^^STA 323 and 424/425 can be used to satisfy the MTH 300 or 400 level electives requirement

**University Notes:**

<b>Gen Ed Key:</b>	SS = Social Sciences (two courses from different departments)** A&H = Arts & Humanities (two courses from different departments)** DIV = Social Diversity (two courses; one US Diversity and one African American Experience) WAC/SPAC = Writing/Speaking Across the Curriculum (three courses, one in the major; C or better required) CAP = Capstone
INTRO = Introduction to University Life (one course) W/C = Writing/Composition (two courses; C or better required) M/QL = Mathematics/Quantitative Literacy (two courses) NS = Natural Sciences (two courses, one of which must have a lab)	** of the four total SS and A&H courses, one must be focused on Africa, Latin America, Asia or the Middle East (ALAAME)

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**Cleveland State University**  
**College of Sciences and Health Professions**  
 Bachelor of Science in Mathematics  
 CSUteach (license in Education)

<i>First Year</i>										
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed	
ASC 101: Intro to University Life	1			Intro	EDC 200: Diversity in Educational Settings	3		x	DIV	
ENG 101: College Writing I	3			W/C	ENG 102: College Writing II	3			W/C	
Science Elective	3	x		NS	PHY 241/243/H: University Physics I	5	x		NS	
PSY 221: Adolescent Psychology	3		x	SS	Social Science Elective (**ALAAME)	3			SS	
MTH 181: Calculus I	4	x	x	M/QL	MTH 182: Calculus II	4	x	x	M/QL	
<i>Semester Total</i>	14				<i>Semester Total</i>	18				

<i>Second Year</i>										
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed	
EUT 201: Step 1: Inquiry Approaches to Teaching	1		x		EDB 242: Introduction to Education	3		x		
MTH 220: Discrete Mathematics	3	x	x		MTH 286: Differential Equations	3	x			
MTH 281: Multivariable Calculus	4	x	x		MTH 288: Linear Algebra	3	x	x		
Arts & Humanities Elective (**ALAAME)	3			A&H	Science Elective	3	x			
PHY 242/244/H: University Physics II	5	x		NS	African American Experience Elective	3			DIV	
<i>Semester Total</i>	16				<i>Semester Total</i>	15				

<i>Third Year</i>										
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed	
EDB 302: Psychological Foundations of Education	3		x	WAC	EUT 305: Classroom Interactions	3		x		
MTH 301: Introduction to Number Theory	3	x	x		MTH 358: Abstract Algebra	3	x	x	WAC	
MTH 333: Geometry	3	x	x		MTH 4xx Elective	3	x			
EDL 305: Content Area Literacy	3		x		MTH 201: Functions & Modeling	3		x		
MTH 323: Statistical Methods	3	x	x		Science Elective	3				
					ESE 400: Introduction to Special Education	3		x		
<i>Semester Total</i>	15				<i>Semester Total</i>	18				

<i>Fourth Year</i>										
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed	
EUT 415: Project Based Instruction in Mathematics	3		x		EST 499: CSUteach STEM Apprentice Teaching II	6		x		
EST 399: CSUteach STEM Apprentice Teaching I	1		x		EUT 210: Perspectives on Science & Math	3		x	A&H/WAC	
SCI 311: Research Methods	3		x	WAC	MTH 496: Senior Project	3	x		WAC/CAP	
MTH 424: Probability Theory & Application	3	x	x		General Elective	3				
MTH 396: Junior Seminar	2	x								
MTH 4xx Elective	3	x								
<b>Apply for Spring graduation prior to Sep 9th</b>										
<i>Semester Total</i>	15				<i>Semester Total</i>	15				

*Degree Total: 126*

Assumptions: college-level readiness in MTH & ENG; no Foreign Language Deficiency

126

**College/ Program Notes:**

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