

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 MTH 347,421,431,435,436,467. Please refer to the Undergraduate Catalog for more details.

University Notes:

Gen Ed Key:

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)

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

** 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)

First Year										
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				

Second Year										
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				

Third Year										
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				

Fourth Year										
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								
Apply for Spring graduation prior to Sep 9th										
<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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University Notes:

Gen Ed Key:	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 ** of the SS and A&H courses, one must be focused on Africa, Latin America, Asia or the Middle East (ALAAME)
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