

Cleveland State University
College of Arts and Sciences
Bachelor of Arts in Mathematics

First Year

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
ASC 101 Intro to University Life	1		Intro	ENG 102 College Writing II	3		W/C
ENG 101 College Writing I	3		W/C	MTH 182 Calculus II	4	X	M/QL
MTH 181 Calculus I	4	X	M/QL	Arts & Humanities Elective**	3		A&H
Natural Science Elective	3		NS	Natural Science Elective	3		NS
Natural Science Elective Lab	1		NS	General Elective*	3		
Social Science Elective**	3		SS				
<i>Semester Total</i>	15			<i>Semester Total</i>	16		

Second Year

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
MTH 281 Multivariable Calculus	4	X		MTH 220 Intro to Discrete Mathematics	3	X	
MTH 288 Linear Algebra	3	X		MTH 286 Intro to Differential Equations	3	X	
Social Science Elective**	3		SS	Social Diversity Elective (US)	3		DIV-US
General Elective*	3			General Elective*	3		
General Elective*	3			General Elective*	3		
<i>Semester Total</i>	16			<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	3	X	WAC
Arts & Humanities Elective**	3		A&H	MTH 300-Level Course^	3	X	
General Elective* 300/400 Level	3			Social Diversity Elective (AA)	3		DIV-AA
General Elective*	3			General Elective*	3		
<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	CAP/WAC
General Elective* (WAC)	3		WAC	General Elective* 300/400 Level	3		
General Elective* 300/400 Level	3			General Elective* 300/400 Level	3		
General Elective*	3			General Elective*	3		
Apply for Spring graduation by the middle of this term							
<i>Semester Total</i>	15			<i>Semester Total</i>	15		
Credit Total: 121 (minimum 120 required for degree)							

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. This plan assumes college-level readiness in both mathematics and English and that Foreign Language Deficiency requirements have been met.

Gen Ed Key:	
INTRO = Introduction to University Life Requirement (one course)	SS = Social Sciences Requirement (2 courses from different departments**)
W/C = Writing/Composition Requirement (2 courses; C or better required)	A&H = Arts & Humanities Requirement (2 courses from different departments**)
M/QL = Mathematics/Quantitative Literacy Requirement (2 courses)	DIV = Social Diversity Requirement (one US Diversity & one African American Exp.)
NS = Natural Science (2 courses, one of which must have a lab)	WAC/SPAC = Writing/Speaking Across the Curriculum (3 courses, one in major)
	CAP = Capstone Requirement

* General Electives ensure that a student accumulates the minimum 120 required credit hours for graduation. Of these 120 credit hours, a minimum of 36 credit hours must be upper division (300 or 400-level courses).

** Of the SS and A&H courses, one must be focused on Africa, Latin America, or the Middle East

^STA 323 and 424/425 can be used to satisfy the MTH 300 or 400 level elective requirement. MTH 300/400 level offerings are on annual rotations and consultation with an advisor is highly recommended to plan them accordingly

This information is provided solely for the convenience of the reader, and the University expressly disclaims any liability which may otherwise be incurred. This publication is neither a contract nor an offer to make a contract. While every effort has been made to ensure the accuracy of the information, the University reserves the right to make changes at any time with respect to course offerings, degree requirements, services provided, or any other subject addressed herein.

Cleveland State University
College of Arts and Sciences
Bachelor of Arts in Mathematics
CSUteach - license in Education

First Year										
Fall Semester	Credits	Major	License	Gen Ed	Spring Semester	Credits	Major	License	Gen Ed	
ASC 101: Intro to University Life	1			Intro	ENG 102 College Writing II	3				W/C
ENG 101: College Writing I	3			W/C	MTH 182 Calculus II	4	X	X		M/QL
MTH 181 Calculus I	4	X	X	M/QL	Natural Science Lecture Elective	3				NS
PSY 221: Adolescent Psychology	3		X	SS	Social Science Elective**	3				SS
Natural Science Elective	3	X		NS	General Elective*	3				
Natural Science Elective Lab	1	X		NS						
Semester Total	15				Semester Total	16				

Second Year										
Fall Semester	Credits	Major	License	Gen Ed	Spring Semester	Credits	Major	License	Gen Ed	
EUT 201: Step 1: Inquiry Approaches to Teaching	1		X		MTH 286: Differential Equations	3	X			
MTH 281: Multivariable Calculus	4	X	X		MTH 220: Discrete Mathematics	3	X	X		
MTH 288: Linear Algebra	3	X	X		EDC 200 Diversity in Educational Settings	3		X		DIV-US
Arts & Humanities Elective**	3			A&H	EDB 242 Introduction to Education	3		X		
Social Diversity Elective (AA)	3			DIV-AA	General Elective*	3				
General Elective	3									
Semester Total	14				Semester Total	15				

Third Year										
Fall Semester	Credits	Major	License	Gen Ed	Spring Semester	Credits	Major	License	Gen Ed	
MTH 333: Geometry	3	X	X		MTH 358 Abstract Algebra	3	X	X		WAC
MTH 301: Introduction to Number Theory	3	X	X		MTH 201 Functions & Modeling	3		X		
STA 323: Statistical Methods	3	X	X		MTH 400 Level Elective	3	X			
EDB 302 Psychological Foundations of Education	3		X	WAC	ESE 400 Introduction to Special Education	3		X		WAC
EDL 305 Content Area Literacy	3		X		EUT 305 Classroom Interactions	3		X		
Semester Total	15				Semester Total	15				

Fourth Year										
Fall Semester	Credits	Major	License	Gen Ed	Spring Semester	Credits	Major	License	Gen Ed	
MTH 396: Junior Seminar	2	X	X		EST 499: CSUteach STEM Apprentice Teaching II	6		X		
MTH 400 Level Elective	3	X			EUT 210: Perspectives on Science & Math	3		X		A&H/WAC
STA 424 Probability Theory & Application	3	X	X		MTH 496: Senior Project	3	X	X		WAC/CAP
EUT 415: Project Based Instruction in Mathematics	3		X							
EST 399: CSUteach STEM Apprentice Teaching I	3		X							
SCI 311 Research Methods	3		X	WAC						
Semester Total	17				Semester Total	12				

Degree Total: 136

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. This plan assumes college-level readiness in both mathematics and English and that Foreign Language Deficiency requirements have been met.

Gen Ed Key: INTRO = Introduction to University Life Requirement (one course) W/C = Writing/Composition Requirement (2 courses; C or better required) M/QL = Mathematics/Quantitative Literacy Requirement (2 courses) NS = Natural Science (2 courses, one of which must have a lab)	SS = Social Sciences Requirement (2 courses from different departments**) A&H = Arts & Humanities Requirement (2 courses from different departments**) DIV = Social Diversity Requirement (one US Diversity & one African American Exp.) WAC/SPAC = Writing/Speaking Across the Curriculum (3 courses, one in major) CAP = Capstone Requirement
---	---

* General Electives ensure that a student accumulates the minimum 120 required credit hours for graduation. Of these 120 credit hours, a minimum of 36 credit hours must be upper division (300 or 400-level courses).

** Of the SS and A&H courses, one must be focused on Africa, Latin America, or the Middle East

This information is provided solely for the convenience of the reader, and the University expressly disclaims any liability which may otherwise be incurred. This publication is neither a contract nor an offer to make a contract. While every effort has been made to ensure the accuracy of the information, the University reserves the right to make changes at any time with respect to course offerings, degree requirements, services provided, or any other subject addressed herein.

Cleveland State University
College of Arts and Sciences
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 220 Intro to Discrete Mathematics	3	X	
MTH 288 Linear Algebra	3	X		MTH 286 Intro to Differential Equations	3	X	
PHY 242 University Physics II (or PHY 244)	5	X	NS	Social Diversity Elective (US)	3		DIV-US
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	3	X	WAC
Science Elective^	3	X		MTH 300-Level Course^^	3	X	
Arts & Humanities Elective**	3		A&H	Social Diversity Elective (AA)	3		DIV-AA
General Elective* 300/400 Level	3			Science Elective^	3		
<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	CAP/WAC
General Elective* (WAC)	3		WAC	General Elective* 300/400 Level	3		
General Elective* 300/400 Level	3			General Elective* 300/400 Level	3		
General Elective*	3			General Elective*	3		
Apply for Spring graduation by the middle of this term							
<i>Semester Total</i>	15			<i>Semester Total</i>	15		
Credit Total: 120 (minimum 120 required for degree)							

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. This plan assumes college-level readiness in both mathematics and English and that Foreign Language Deficiency requirements have been met.

Gen Ed Key:	
INTRO = Introduction to University Life Requirement (one course)	SS = Social Sciences Requirement (2 courses from different departments**)
W/C = Writing/Composition Requirement (2 courses; C or better required)	A&H = Arts & Humanities Requirement (2 courses from different departments**)
M/QL = Mathematics/Quantitative Literacy Requirement (2 courses)	DIV = Social Diversity Requirement (one US Diversity & one African American Exp.)
NS = Natural Science (2 courses, one of which must have a lab)	WAC/SPAC = Writing/Speaking Across the Curriculum (3 courses, one in major)
	CAP = Capstone Requirement

* General Electives ensure that a student accumulates the minimum 120 required credit hours for graduation. Of these 120 credit hours, a minimum of 36 credit hours must be upper division (300 or 400-level courses).

** Of the SS and A&H courses, one must be focused on Africa, Latin America, or the Middle East

^ 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 elective requirement. MTH 300/400 level offerings are on annual rotations and consultation with an advisor is highly recommended to plan them accordingly

This information is provided solely for the convenience of the reader, and the University expressly disclaims any liability which may otherwise be incurred. This publication is neither a contract nor an offer to make a contract. While every effort has been made to ensure the accuracy of the information, the University reserves the right to make changes at any time with respect to course offerings, degree requirements, services provided, or any other subject addressed herein.

Cleveland State University
College of Arts and Sciences
Bachelor of Science in Mathematics
CSUteach - license in Education

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

Second Year										
Fall Semester	Credits	Major	License	Gen Ed	Spring Semester	Credits	Major	License	Gen Ed	
EUT 201: Step 1: Inquiry Approaches to Teaching	1		X		MTH 286: Differential Equations	3	X			
MTH 281: Multivariable Calculus	4	X	X		MTH 220: Discrete Mathematics	3	X	X		
MTH 288: Linear Algebra	3	X	X		EDB 242 Introduction to Education	3		X		
Arts & Humanities Elective**	3			A&H	Science Elective^	3	X			
PHY 242/244/H: University Physics II	5	X		NS	Social Diversity Elective (AA)	3			DIV-AA	
Semester Total	16				Semester Total	15				

Third Year										
Fall Semester	Credits	Major	License	Gen Ed	Spring Semester	Credits	Major	License	Gen Ed	
MTH 333: Geometry	3	X	X		MTH 358 Abstract Algebra	3	X	X	WAC	
MTH 301: Introduction to Number Theory	3	X	X		MTH 201 Functions & Modeling	3		X		
STA 323: Statistical Methods	3	X	X		MTH 400 Level Elective^^	3	X			
EDB 302 Psychological Foundations of Education	3		X	WAC	ESE 400 Introduction to Special Education	3		X	WAC	
EDL 305 Content Area Literacy	3		X		EUT 305 Classroom Interactions in Humanities	3		X		
Semester Total	15				Semester Total	15				

Fourth Year										
Fall Semester	Credits	Major	License	Gen Ed	Spring Semester	Credits	Major	License	Gen Ed	
MTH 396: Junior Seminar	2	X	X		EST 499: CSUteach STEM Apprentice Teaching II	6		X		
MTH 400 Level Elective^^	3	X			EUT 210: Perspectives on Science & Math	3		X	A&H/WAC	
STA 424 Probability Theory & Application	3	X	X		MTH 496: Senior Project	3	X	X	WAC/CAP	
EUT 415: Project Based Instruction in Mathematics	3		X							
EST 399: CSUteach STEM Apprentice Teaching I	3		X							
SCI 311 Research Methods	3		X	WAC						
Semester Total	17				Semester Total	12				

Degree Total: 136

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. This plan assumes college-level readiness in both mathematics and English and that Foreign Language Deficiency requirements have been met.

Gen Ed Key: INTRO = Introduction to University Life Requirement (one course) W/C = Writing/Composition Requirement (2 courses; C or better required) M/QL = Mathematics/Quantitative Literacy Requirement (2 courses) NS = Natural Science (2 courses, one of which must have a lab)	SS = Social Sciences Requirement (2 courses from different departments**) A&H = Arts & Humanities Requirement (2 courses from different departments**) DIV = Social Diversity Requirement (one US Diversity & one African American Exp.) WAC/SPAC = Writing/Speaking Across the Curriculum (3 courses, one in major) CAP = Capstone Requirement
---	---

* General Electives ensure that a student accumulates the minimum 120 required credit hours for graduation. Of these 120 credit hours, a minimum of 36 credit hours must be upper division (300 or 400-level courses).

** Of the SS and A&H courses, one must be focused on Africa, Latin America, or the Middle East

^ 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 elective requirement. MTH 300/400 level offerings are on annual rotations and consultation with an advisor is highly recommended to plan them accordingly

This information is provided solely for the convenience of the reader, and the University expressly disclaims any liability which may otherwise be incurred. This publication is neither a contract nor an offer to make a contract. While every effort has been made to ensure the accuracy of the information, the University reserves the right to make changes at any time with respect to course offerings, degree requirements, services provided, or any other subject addressed herein.