

Cleveland State University
College of Sciences and Health Professions
Bachelor of Science in Biology
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	PHY 201: Astronomy: Stars & Galaxies	3	x	x	NS
ENG 101: College Writing I	3			W/C	ENG 102: College Writing II	3			W/C
BIO 200/201: Introductory Biology I + Lab	4	x	x	NS	BIO 202/203: Introductory Biology II + Lab	4	x	x	NS
PSY 221: Adolescent Psychology	3		x	SS	CHM 261/266: General Chemistry I + Lab	4	x	x	NS
MTH 181: Calculus I	4	x	x	M/QL	MTH 147: Statistical Concepts & App	3	x	x	M/QL
<i>Semester Total</i>	15				<i>Semester Total</i>	17			

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	
BIO 300/301: Plant Biology + Lab	4	x			BIO 304/305: Pop Biology & Evolution + Lab	4	x	x	
CHM 262/267: General Chemistry II + Lab	4	x	x	NS	CHM 331/336: Organic Chemistry I + Lab	4	x		
EVS 206: Intro to Environmental Science	3	x	x	NS	BIO 308/309: Cell Biology + Lab	4	x		
Arts & Humanities Elective (outside US**)	3			A&H	EDC 300: Div in Edu Settings	3		x	DIV
<i>Semester Total</i>	15				<i>Semester Total</i>	18			

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	
BIO 302/304: Animal Biology + Lab	4	x			BIO 306/307: Biochemistry + Recitation	4	x		
PHY 221: College Physics I	5	x	x	NS	PHY 222: College Physics II	5	x	x	NS
GEO 100/101: Intro to Geology + Lab	4	x	x		Social Science Elective (outside US**)	3			SS
African American Experience Elective	3			DIV	ESE 400: Introduction to Special Education	3		x	
<i>Semester Total</i>	19				<i>Semester Total</i>	18			

Fourth Year									
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed
EUT 417: Project Based Instruction in Science	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	CHM 255: Principles of Environmental Chemistry	3	x	x	
BIO 310/311: Genetics + Recitation	4	x			BIO 495: Seminar	2	x		CAP/WAC
PHY 470: Environmental Physics	3	x	x		BIO 499: Exit Evaluation	0	x		
EDL 305: Content Area Literacy	3		x		BIO 3xx/4xx: Elective	3	x		
<i>Apply for Spring graduation prior to Sep 9th</i>									
<i>Semester Total</i>	17				<i>Semester Total</i>	17			
<i>Degree Total: 131</i>									

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

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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 (3 credit hour vs. 4 credit hour courses), students may not need as many general electives as indicated above, or may need additional electives.

University Notes:

Gen Ed Key:	
INTRO = Introduction to University Life (one course)	SS = Social Sciences (two courses, one of which must be focused outside the US**)
W/C = Writing/Composition (two courses; C or better required)	A&H = Arts & Humanities (two courses, one must be focused outside the US**)
M/QL = Mathematics/Quantitative Literacy (two courses)	DIV = Social Diversity (two courses; one US Diversity and one African American Experience)
NS = Natural Sciences (two courses, one of which must have a lab)	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 focused outside the US, 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 Chemistry
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					
ENG 101: College Writing I	3			W/C	ENG 102: College Writing II	3			W/C
CHM 261/266: General Chemistry I + Lab	4	x	x	NS	CHM 262/267: General Chemistry II + Lab	4	x	x	NS
PSY 221: Adolescent Psychology	3		x	SS	BIO 200/201: Introductory Biology I + Lab	4	x	x	NS
MTH 181: Calculus I	4	x	x	M/QL	MTH 182: Calculus II	4	x	x	M/QL
<i>Semester Total</i>	<i>15</i>				<i>Semester Total</i>	<i>15</i>			

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	
CHM 331/336: Organic Chemistry I + Lab	4	x	x		CHM 332/337: Organic Chemistry II + Lab	4	x		
BIO 202/203: Introductory Biology II + Lab	4	x	x	NS	BIO 304/305: Population Biology & Ecology + Lab	4	x	x	
EVS 206: Intro to Environmental Science	3	x	x	NS	MTH 147: Statistical Concepts & App	3	x	x	M/QL
Arts & Humanities Elective (outside US**)	3			A&H	EDC 300: Div in Edu Settings	3		x	DIV
African American Experience Elective	3			DIV					
<i>Semester Total</i>	<i>18</i>				<i>Semester Total</i>	<i>17</i>			

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	
CHM 310/315: Survey of Analytical Chem + lab	4	x	x		PHY 201: Astronomy: Stars & Galaxies	3	x	x	NS
PHY 221: College Physics I	5	x	x	NS	PHY 222: College Physics II	5	x	x	NS
GEO 100/101: Intro to Geology + Lab	4	x	x	NS	ESE 400: Introduction to Education	3		x	
Social Science Elective (outside US**)	3			SS	CHM 320: Survey of Physical Chemistry	3	x	x	
<i>Semester Total</i>	<i>19</i>				<i>Semester Total</i>	<i>17</i>			

Fourth Year									
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed
EUT 417: Project Based Instruction in Science	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	CHM 404: Environmental Chemistry	3	x	x	
CHM 402: Biochemistry	3	x			CHM 472: Student Colloquium	1	x		CAP/WAC
PHY 470: Environmental Physics	3	x	x						
EDL 305: Content Area Literacy	3		x						
<i>Apply for Spring graduation prior to Sep 9th</i>									
<i>Semester Total</i>	<i>16</i>				<i>Semester Total</i>	<i>13</i>			
<i>Degree Total: 130</i>									

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

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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 (3 credit hour vs. 4 credit hour courses), students may not need as many general electives as indicated above, or may need additional electives.

University Notes:

Gen Ed Key:	SS = Social Sciences (two courses, one of which must be focused outside the US**)
INTRO = Introduction to University Life (one course)	A&H = Arts & Humanities (two courses, one must be focused outside the US**)
W/C = Writing/Composition (two courses; C or better required)	DIV = Social Diversity (two courses; one US Diversity and one African American Experience)
M/QL = Mathematics/Quantitative Literacy (two courses)	WAC/SPAC = Writing/Speaking Across the Curriculum (three courses, one in the major; C or better required)
NS = Natural Sciences (two courses, one of which must have a lab)	CAP = Capstone
** of the SS and A&H courses focused outside the US, 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 Environmental Science
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 300: Div in Edu Settings	3		x	DIV
ENG 101: College Writing I	3			W/C	ENG 102: College Writing II	3			W/C
BIO 200/201: Introductory Biology I + Lab	4	x	x	NS	BIO 202/203: Introductory Biology II + Lab	4	x	x	NS
PSY 221: Adolescent Psychology	3		x	SS	EVS 206: Introduction to Environmental Science	3	x	x	NS
MTH 181: Calculus I	4	x	x	M/QL	MTH 147: Statistical Concepts & App	3		x	M/QL
<i>Semester Total</i>	15				<i>Semester Total</i>	16			

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	
EVS 300/301: Phy Features of Ecosystem + Lab	4	x			EVS 302/303: Bio Features of Ecosystems + Lab	4	x		
CHM 261/266: General Chemistry I + Lab	4	x	x	NS	CHM 262/267: General Chemistry II + Lab	4	x	x	NS
EVS 322/323: Geospatial Concepts & Tools	4	x			Bio 304/305: Population Biology & Evolution + Lab	4	x	x	
African American Experience Elective	3			DIV	GEO 230: Natural Resources	3	x	x	
<i>Semester Total</i>	16				<i>Semester Total</i>	18			

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	
Planning Course (UST 435, 436, 441 or 442)	3	x			PHY 201: Astronomy: Stars & Galaxies	3	x	x	NS
PHY 221: College Physics I	5	x	x	NS	PHY 222: College Physics II	5	x	x	NS
GEO 100/101: Intro to Geology + Lab	4	x	x	NS	Social Science Elective (outside US**)	3			SS
Arts & Humanities Elective (outside US**)	3			A&H	ESE 400: Introduction to Special Education	3		x	
<i>Semester Total</i>	18				<i>Semester Total</i>	17			

Fourth Year									
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed
EUT 417: Project Based Instruction in Science	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	CHM 255: Environmental Chemistry	3	x	x	
Planning Course (UST 435, 436, 441 or 442)	3	x			EVS 490/496/497: Intern/Ind Study/Research	4	x		CAP/WAC
PHY 470: Environmental Physics	3	x	x		EVS 499: Exit Evaluation	0	x		
EDL 305: Content Area Literacy	3		x						
<i>Apply for Spring graduation prior to Sep 9th</i>									
<i>Semester Total</i>	16				<i>Semester Total</i>	16			

Degree Total: 132

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

132

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.

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University Notes:

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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 SS and A&H courses focused outside the US, 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 Arts 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	General Elective	3			
ENG 101: College Writing I	3			W/C	ENG 102: College Writing II	3			W/C
Science Elective	4	x		NS	Science Elective	3			NS
PSY 221: Adolescent Psychology	3		x	SS	Social Science Elective (outside US**)	3			SS
MTH 181: Calculus I	4	x	x	M/QL	MTH 182: Calculus II	4	x	x	M/QL
<i>Semester Total</i>	15				<i>Semester Total</i>	16			

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 281: Multivariable Calculus	4	x	x	
MTH 286: Differential Equations	3	x			MTH 288: Linear Algebra	3	x	x	
Arts & Humanities Elective (outside US**)	3			A&H	General Elective	3			
African American Experience Elective	3			DIV	EDC 300: Div in Edu Settings	3		x	DIV
General Elective	3								
<i>Semester Total</i>	16				<i>Semester Total</i>	16			

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		ESE 400: Introduction to Special Education	3		x	
<i>Semester Total</i>	15				<i>Semester Total</i>	15			

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						
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>	12			

Degree Total: 120

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

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College/ Program Notes:

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M/QL = Mathematics/Quantitative Literacy (two courses)	DIV = Social Diversity (two courses; one US Diversity and one African American Experience)
NS = Natural Sciences (two courses, one of which must have a lab)	WAC/SPAC = Writing/Speaking Across the Curriculum (three courses, one in the major; C or better required)
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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					
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 (outside US**)	3			SS
MTH 181: Calculus I	4	x	x	M/QL	MTH 182: Calculus II	4	x	x	M/QL
<i>Semester Total</i>	<i>14</i>				<i>Semester Total</i>	<i>15</i>			

<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 (outside US**)	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>	<i>16</i>				<i>Semester Total</i>	<i>15</i>			

<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>	<i>15</i>				<i>Semester Total</i>	<i>18</i>			

<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							
Apply for Spring graduation prior to Sep 9th									
<i>Semester Total</i>	<i>15</i>				<i>Semester Total</i>	<i>15</i>			
<i>Degree Total: 123</i>									

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

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College/ Program Notes:

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W/C = Writing/Composition (two courses; C or better required)	A&H = Arts & Humanities (two courses, one must be focused outside the US**)
M/QL = Mathematics/Quantitative Literacy (two courses)	DIV = Social Diversity (two courses; one US Diversity and one African American Experience)
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Cleveland State University
College of Sciences and Health Professions
Bachelor of Science in Mathematics
CSUteach (minor in Physics, license in Education)

First Year															
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed	Summer Semester	Credits	Major	Minor	Gen Ed	
ASC 101: Intro to University Life	1			Intro											
ENG 101: College Writing I	3			W/C	ENG 102: College Writing II	3			W/C						
Arts & Humanities Elective (outside US**)	3			A&H	PHY 241/243/H: University Physics I	5	x	x	NS						
PSY 221: Adolescent Psychology	3		x	SS	Social Science Elective (outside US**)	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>	15				<i>Semester Total</i>	0				

Second Year															
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed	Summer Semester	Credits	Major	Minor	Gen Ed	
EUT 201: Step 1: Inquiry Approaches to Teaching	1		x		EDB 242: Introduction to Education	3		x		MTH 323: Statistical Methods	3	x	x		
MTH 220: Discrete Mathematics	3	x	x		MTH 286: Differential Equations	3	x			EDC 300: Div in Edu Settings	3		x	DIV	
MTH 281: Multivariable Calculus	4	x	x		MTH 288: Linear Algebra	3	x	x							
EVS 206: Intro to Environmental Science	3		x	NS	MTH 201: Functions & Modeling	3		x							
PHY 242/244/H: University Physics II	5	x	x	NS	PHY 330: Modern Physics	3		x							
<i>Semester Total</i>	16				<i>Semester Total</i>	15				<i>Semester Total</i>	6				

Third Year															
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed	Summer Semester	Credits	Major	Minor	Gen Ed	
EDB 302: Psychological Foundations of Education	3		x	WAC	EUT 305: Classroom Interactions	3		x		CHM 380: Prin of Chem Mid Sch Teachers	3		x		
MTH 301: Introduction to Number Theory	3	x	x		MTH 358: Abstract Algebra	3	x	x	WAC	BIO 380/381: Bio Content Mid Sch Teachers + Lab	4		x		
MTH 333: Geometry	3	x	x		MTH 4xx Elective	3	x								
African American Experience Elective	3			DIV	EDL 305: Content Area Literacy	3		x							
PHY 470: Environmental Physics	3	x	x		ESE 400: Introduction to Special Education	3		x							
					MTH 396: Junior Seminar	2	x								
<i>Semester Total</i>	15				<i>Semester Total</i>	17				<i>Semester Total</i>	7				

Fourth Year															
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed	Summer Semester	Credits	Major	Minor	Gen Ed	
EUT 415: Project Based Instruction in Mathematics	3		x		EST 499: CSUteach STEM Apprentice Teaching II	6		x							
EUT 417: Project Based Instruction in Science	3		x		EUT 210: Perspectives on Science & Math	3		x	A&H/WAC						
EST 399: CSUteach STEM Apprentice Teaching I	1		x		MTH 496: Senior Project	3	x		WAC						
MTH 424: Probability Theory & Application	3	x	x		MTH 4xx Elective	3	x								
SCI 311: Research Methods	3		x	WAC											
PHY 474: Thermal Physics	4	x	x	CAP											
<i>Apply for Spring graduation prior to Sep 9th</i>															
<i>Semester Total</i>	17				<i>Semester Total</i>	15				<i>Semester Total</i>	0				
<i>Degree Total: 137</i>															

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

137

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 (3 credit hour vs. 4 credit hour courses), students may not need as many general electives as indicated above, or may need additional electives.

University Notes:

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

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Cleveland State University
College of Sciences and Health Professions
Bachelor of Arts in Physics
CSUteach (license in Education)

First Year															
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed	Summer Semester	Credits	Major	Minor	Gen Ed	
ASC 101: Intro to University Life	1			Intro											
ENG 101: College Writing I	3			W/C	ENG 102: College Writing II	3			W/C						
BIO 200/201: Introductory Biology I + Lab	4	x	x	NS	BIO 202/203: Introductory Biology II + Lab	4	x	x	NS						
PSY 221: Adolescent Psychology	3		x	SS	PHY 241/243/H: University Physics I*	5	x	x	NS						
MTH 181: Calculus I	4	x	x	M/QL	MTH 182: Calculus II	4	x	x	M/QL						
<i>Semester Total</i>	<i>15</i>				<i>Semester Total</i>	<i>16</i>				<i>Semester Total</i>	<i>0</i>				

Second Year															
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed	Summer Semester	Credits	Major	Minor	Gen Ed	
EUT 201: Step 1: Inquiry Approaches to Teaching	1		x		EDB 242: Introduction to Education	3		x		African American Experience Elective	3				DIV
PHY 242/244/H: University Physics II*	5	x	x	NS	PHY 330: Modern Physics	3	x	x		CIS 151: Invitation to Computing	3	x			
CHM 261/266: General Chemistry I + Lab	4	x	x	NS	CHM 262/267: General Chemistry II + Lab	4	x	x	NS						
MTH 281: Multivariable Calculus	4	x	x		PHY Elective: 3xx/4xx	3	x								
Arts & Humanities Elective (outside US**)	3			A&H	BIO 304/305: Population Biology & Ecology + Lab	4	x	x							
<i>Semester Total</i>	<i>17</i>				<i>Semester Total</i>	<i>17</i>				<i>Semester Total</i>	<i>6</i>				

Third Year															
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed	Summer Semester	Credits	Major	Minor	Gen Ed	
EDB 302: Psychological Foundations of Education	3		x	WAC	EUT 305: Classroom Interactions	3		x		PHY 201: Astronomy: Stars & Galaxies	3		x	NS	
PHY Elective: 3xx/4xx	3	x			PHY Elective: 3xx/4xx	3	x			MTH 147: Statistical Concepts with App	3		x	M/QL	
PHY 470: Environmental Physics	3	x	x		PHY Elective: 3xx/4xx	3	x			EDC 300: Div in Edu Setting	3		x	DIV	
GEO 100/101: Introduction to Geology + lab	4	x	x	NS	EVS 206: Intro to Environmental Science	3	x	x	NS	EDL 305: Content Area Lite	3		x		
CIS 260: Introduction to Programming	4	x			ESE 400: Introduction to Special Education	3		x							
<i>Semester Total</i>	<i>17</i>				<i>Semester Total</i>	<i>15</i>				<i>Semester Total</i>	<i>12</i>				

Fourth Year															
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed	Summer Semester	Credits	Major	Minor	Gen Ed	
EUT 417: Project Based Instruction in Science	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		CHM 255: Environmental Chemistry	3	x	x							
PHY Elective: 3xx/4xx	3	x			Social Sciences Elective (outside US**)	3			SS						
PHY 474: Thermal Physics	4	x	x	CAP											
<i>Apply for Spring graduation prior to Sep 9th</i>															
<i>Semester Total</i>	<i>14</i>				<i>Semester Total</i>	<i>15</i>				<i>Semester Total</i>	<i>0</i>				
<i>Degree Total: 144</i>															

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.

*Students must choose either PHY 243/H or PHY 244/H to meet WAC requirements. If one is not chosen, an additional WAC course will need to be added

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 (3 credit hour vs. 4 credit hour courses), students may not need as many general electives as indicated above, or may need additional electives.

University Notes:

Gen Ed Key:	SS = Social Sciences (two courses, one of which must be focused outside the US**)
INTRO = Introduction to University Life (one course)	A&H = Arts & Humanities (two courses, one must be focused outside the US**)
W/C = Writing/Composition (two courses; C or better required)	DIV = Social Diversity (two courses; one US Diversity and one African American Experience)
M/QL = Mathematics/Quantitative Literacy (two courses)	WAC/SPAC = Writing/Speaking Across the Curriculum (three courses, one in the major; C or better required)
NS = Natural Sciences (two courses, one of which must have a lab)	CAP = Capstone
** of the SS and A&H courses focused outside the US, 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 Arts in Physics
CSUteach (minor in Mathematics and license in Education)

First Year															
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed	Summer Semester	Credits	Major	Minor	Gen Ed	
ASC 101: Intro to University Life	1			Intro											
ENG 101: College Writing I	3			W/C	ENG 102: College Writing II	3			W/C						
BIO 200/201: Intro to Biology I + Lab -OR- CHM 261/262: Gen Chem I + Lab	4	x	x	NS	BIO 202/203: Intro to Biology II + Lab -OR- CHM 262/267: Gen Chem II + Lab	4	x	x	NS						
PSY 221: Adolescent Psychology	3		x	SS	PHY 241/243/H: University Physics I	5	x	x	NS						
MTH 181: Calculus I	4	x	x	M/QL	MTH 182: Calculus II	4	x	x	M/QL						
<i>Semester Total</i>	15				<i>Semester Total</i>	16				<i>Semester Total</i>	0				

Second Year															
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed	Summer Semester	Credits	Major	Minor	Gen Ed	
EUT 201: Step 1: Inquiry Approaches to Teaching	1		x		EDB 242: Introduction to Education	3		x		CIS 151: Invitation to Computing	3	x			
PHY 242/244/H: University Physics II	5	x	x	NS	PHY 330: Modern Physics	3	x	x		MTH 323: Statistical Methods	3	x	x		
EVS 206: Intro to Environmental Science	3	x	x	NS	MTH 288: Linear Algebra	3	x	x		EDC 300: Div in Edu Settings	3		x		
MTH 281: Multivariable Calculus	4	x	x		PHY Elective: 3xx/4xx	3	x			African American Experience	3 or 4				DIV
PHY 470: Environmental Physics	3	x	x		MTH 220: Discrete Mathematics	3	x	x	SS						
<i>Semester Total</i>	16				<i>Semester Total</i>	15				<i>Semester Total</i>	12				

Third Year															
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed	Summer Semester	Credits	Major	Minor	Gen Ed	
EDB 302: Psychological Foundations of Education	3		x	WAC	EUT 305: Classroom Interactions	3		x		CHM 380: Prin of Chem Mid Sch Teach -OR- BIO 380/381: Bio Content Mid Sch Teach*	3 or 4	x	x		
PHY Elective: 3xx/4xx	3	x			PHY Elective: 3xx/4xx	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 201: Functions & Modeling	3		x		EDL 305: Content Area Litera	3		x		
CIS 260: Introduction to Programming	4	x			PHY Elective: 3xx/4xx	3	x								
PHY Elective: 3xx/4xx	3	x			ESE 400: Introduction to Special Education	3		x							
<i>Semester Total</i>	19				<i>Semester Total</i>	18				<i>Semester Total</i>	6				

Fourth Year															
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed	Summer Semester	Credits	Major	Minor	Gen Ed	
EUT 415: Project Based Instruction in Mathematics	3		x		EST 499: CSUteach STEM Apprentice Teaching II	6		x							
EUT 417: Project Based Instruction in Science	3		x		EUT 210: Perspectives on Science & Math	3		x	&H/WAC						
EST 399: CSUteach STEM Apprentice Teaching I	1		x		Social Science Elective (outside US**)	3			SS						
SCI 311: Research Methods	3		x	WAC	Arts & Humanities Elective (outside US**)	3			A&H						
PHY 474: Thermal Physics	4	x	x	CAP											
MTH 424: Probability Theory & Application	3	x	x												
Apply for Spring graduation prior to Sep 9th															
<i>Semester Total</i>	17				<i>Semester Total</i>	15				<i>Semester Total</i>	0				

Degree Total: 149-150

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

149

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.

If a student chooses BIO 200/201 and BIO 202/203, he/she must choose CHM 380. If a student chooses CHM 262/266 and CHM 262.267, he/she must choose BIO 380/381.

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 (3 credit hour vs. 4 credit hour courses), students may not need as many general electives as indicated above, or may need additional electives.

University Notes:

Gen Ed Key:	
INTRO = Introduction to University Life (one course)	SS = Social Sciences (two courses, one of which must be focused outside the US**)
W/C = Writing/Composition (two courses; C or better required)	A&H = Arts & Humanities (two courses, one must be focused outside the US**)
M/QL = Mathematics/Quantitative Literacy (two courses)	DIV = Social Diversity (two courses; one US Diversity and one African American Experience)
NS = Natural Sciences (two courses, one of which must have a lab)	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 focused outside the US, one must be focused on Africa, Latin America, Asia or the Middle East (ALAAME)	

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Cleveland State University
College of Liberal Arts and Social Sciences
Bachelor of Social Studies
CSUteach (license in Education)

First Year									
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed
ENG 101: College Writing I	3			W/C	ENG 102: College Writing II	3			W/C
MTH 116: Quantitative Literacy	3			M/QL	MTH 117: Math App in the Real World	3			M/QL
ASC 101: Introduction to University Life	1			Intro	Natural Science Elective	3			NS
General Elective	3				Natural Science Elective Lab	1			NS lab
HIS 101: Western Civilization I	3	x		A&H	PSY 101: Introduction to Psychology	3		x	SS
HIS 215: History of African-Americans to 1877	3	x		DIV-AA	General Elective	3			CLASS
<i>Semester Total</i>	<i>16</i>				<i>Semester Total</i>	<i>16</i>			

Second Year									
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed
Arts and Humanities Elective (not in HIS)	3			A&H	HIS 112: United States History since 1877	3	x		
EDC 300: Diversity in Educational Settings	3		x	DIV-US	HIS 299: Introduction to Historical Studies	3	x		
HIS 111: United States History to 1877	3	x			ECN 202: Principles of Microeconomics	3	x		
HIS 104: Modern World History	3	x		SS	HIS 200: Introduction to Geography	3	x		
EUT 202: Step 1: Inquiry Approaches to teaching Humanities	1		x		EDB 242: Introduction to Education	3		x	
PSC 111: American Government	3	x							
<i>Semester Total</i>	<i>16</i>				<i>Semester Total</i>	<i>15</i>			

Third Year									
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed
NonWestern Sequence, course #1 of 3	3	x			HIS 370: Historiography of World History	3	x		
Interdisciplinary Sequence, course #2, global	3	x			US History Sequence, Colonial/Revolutionary Era	3	x		WAC
Interdisciplinary Sequence, course #1: ANT 275 or SOC 210	3	x		SS/AALAME	EDL 305: Content Area Literacy	3		x	
Natural Science Elective	3			NS	EUT 306: Classroom Interactions in Humanities	3		x	
EDB 302: Psychological Foundations of Education	3		x	WAC	ESE 400: Introduction to Special Education	3		x	
<i>Semester Total</i>	<i>15</i>				<i>Semester Total</i>	<i>15</i>			

Fourth Year									
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed
US History Sequence, #3, 19th or 20th century	3	x			Non Western Sequence, #3	3	x		
Interdisciplinary Sequence, #3	3	x			HIS 401: History Seminar	3	x		CAP/WAC
NonWestern Sequence, #2	3	x			EST 498: <i>CSUteach</i> Humanities Apprentice Teaching II	6		x	
US History Sequence #2, 19th or 20th century	3	x							
EUT 416: Project-based Instruction in Secondary Social Studie	3		x						
EST 398: <i>CSUteach</i> Humanities Apprentice Teaching I	1		x						
Apply for Spring graduation prior to Sep 9th									
<i>Semester Total</i>	<i>16</i>				<i>Semester Total</i>	<i>12</i>			

121 credit hours (120 minimum hours required for the degree)

121

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. Assumes CLASS Foreign Language Requirement fulfilled.

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University Notes:

Gen Ed Key:	SS = Social Sciences Requirement (2 courses, one of which must be focused outside the US**)
INTRO = Introduction to University Life Requirement (one course)	A&H = Arts & Humanities Requirement (2 courses, one must be focused outside the US**)
W/C = Writing/Composition Requirement (two courses; C or better required)	DIV = Social Diversity Requirement (2 courses; one US Diversity and one African American Exp.)
M/QL = Mathematics/Quantitative Literacy Requirement (two courses)	WAC/SPAC = Writing/Speaking Across the Curriculum Requirement (3 courses, one in the major)
NS = Natural Sciences (two courses, one of which must have a lab)	CAP = Capstone Requirement
** of the SS and A&H courses focused outside the US, one must be focused on Africa, Latin America, Asia or the Middle East (ALAAME)	

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Cleveland State University
College of Liberal Arts and Social Sciences
Bachelor of Arts in English
CSUteach (license in Education)

First Year									
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed
ENG 101: College Writing I	3			W/C	ENG 102: College Writing II	3			W/C
MTH 116: Quantitative Literacy	3			M/QL	MTH 117: Math App in the Real World	3			M/QL
ASC 101: Introduction to University Life	1			Intro	Natural Science Elective	3			NS
General Elective	3				PSY 221: Adolescent Psychology	3		x	SS
COM 101: Principles of Communication or Gen. Elective	3			SS	A & H elective (outside the US/ALAAME)	3			A&H
General Elective	3								
<i>Semester Total</i>	<i>16</i>				<i>Semester Total</i>	<i>15</i>			

Second Year									
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed
Social Science (outside the US/ALAAME)	3			SS	Natural Science Elective	3			NS
COM 226: Mass Media or COM 231: Evltn Mass Media	3	x			Natural Science Lab	1			NSL
ENG 240: Introduction to Poetry	3	x		WAC/A&H	ENG 241: Introduction to Fiction	3	x		WAC
ENG 207: African-Amer. Literature or ENG 208: Womanism/Feminism or other DIV-AA elective	3			DIV-AA	ENG 242: Introduction to Drama	3	x		WAC
General Elective	3				EDC 300: Diversity in Educational Settings	3		x	DIV-US
EUT 202: Step 1: Inquiry approaches to teaching humanities	1		x		EDB 242: Introduction to Education	3		x	
<i>Semester Total</i>	<i>16</i>				<i>Semester Total</i>	<i>16</i>			

Third Year									
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed
ENG 321: British Literature I	3	x			ENG 322: British Literature II	3	x		
ENG 308: Comp Theory for Teachers	3	x			ENG 382: Canonicity	3	x		
ENG 310: Intro English Language	3	x			ESE 400: Introduction to Special Education	3		x	
EDB 302: Psychological Foundations of Education	3		x		EDL 305: Content Area Literacy	3		x	
EDL 313: Literature based Reading Methods for Adole	3		x		EUT 306: Classroom Interactions in Humanities	3		x	
<i>Semester Total</i>	<i>15</i>				<i>Semester Total</i>	<i>15</i>			

Fourth Year									
Fall Semester	Credits	Major	Minor	Gen Ed	Spring Semester	Credits	Major	Minor	Gen Ed
ENG 341: American Literature I	3	x			EST 498: CSUteach Humanities Apprentice Teaching II	6		x	
ENG 315: Intro English Language	3	x			ENG 342: American Literature II	3	x		
EUT 413: Inquiry based Instruction in English Language Arts	3		x		General Elective	3			
EST 398: CSUteach Humanities Apprentice Teaching I	1		x						
General Elective	3								
ENG 495 senior seminar	3	x		CAP					
Apply for Spring graduation prior to Sep 9th									
<i>Semester Total</i>	<i>16</i>				<i>Semester Total</i>	<i>12</i>			
<i>121 credit hours (120 minimum hours required for the degree)</i>									

121

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

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W/C = Writing/Composition Requirement (two courses; C or better required)	DIV = Social Diversity Requirement (2 courses; one US Diversity and one African American Exp.)
M/QL = Mathematics/Quantitative Literacy Requirement (two courses)	WAC/SPAC = Writing/Speaking Across the Curriculum Requirement (3 courses, one in the major)
NS = Natural Sciences (two courses, one of which must have a lab)	CAP = Capstone Requirement
** of the SS and A&H courses focused outside the US, one must be focused on Africa, Latin America, Asia or the Middle East (ALAAME)	

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