

Cleveland State University
College of Sciences and Health Professions
Bachelor of Arts 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 | Natural Science Elective | 3 | | NS |
| Social Science Elective** | 3 | | SS | Arts & Humanities Elective** | 3 | | A&H |
| Natural Science Elective w/Lab | 4 | | NS | General Elective* | 3 | | |
| | | | | | | | |
| <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 | |
| General Elective* | 3 | | | US Diversity Elective | 3 | | DIV |
| Social Science Elective** | 3 | | SS | General Elective* | 3 | | |
| General Elective* | 2 | | | 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 |
| General Elective* | 3 | | | MTH 300-Level Course [^] | 3 | X | |
| Arts & Humanities Elective** | 3 | | A&H | African American Experience Elective | 3 | | DIV |
| Upper-Division General Elective* | 3 | | | Upper-Division 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 | WAC; CAP |
| Writing Across the Curriculum Elective | 3 | | WAC | Upper-Division General Elective* | 3 | | |
| Upper-Division General Elective* | 3 | | | General Elective* | 3 | | |
| Upper-Division General Elective* | 3 | | | Upper-Division General Elective* | 3 | | |
| | | | | | | | |
| Apply for Spring graduation by the middle of this term | | | | | | | |
| <i>Semester Total</i> | 15 | | | <i>Semester Total</i> | 15 | | |
| <i>Degree Total (as listed in above sample): 120 (120 hours minimum required to earn degree)</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.

*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.

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

[^]300/400 Math offerings are on annual rotations and consultation with an advisor is highly recommended to plan them accordingly,

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 Arts in Mathematics
 CSUteach (license in Education)

| <i>First Year</i> | | | | | | | | | | | |
|-----------------------------------|---------|-------|---------|--------|------------------------------------|---------|-------|---------|--------|--|--|
| Fall Semester | Credits | Major | License | Gen Ed | Spring Semester | Credits | Major | License | 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 + Lab | 4 | x | | NS | Science Elective | 3 | | | 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> | 15 | | | | <i>Semester Total</i> | 16 | | | | | |

| <i>Second Year</i> | | | | | | | | | | | |
|---|---------|-------|---------|--------|------------------------------------|---------|-------|---------|--------|--|--|
| Fall Semester | Credits | Major | License | Gen Ed | Spring Semester | Credits | Major | License | Gen Ed | | |
| EUT 201: Step 1: Inquiry Approaches to Teaching | 1 | | x | | EDB 242: Introduction to Education | 3 | | x | DIV | | |
| MTH 281: Multivariable Calculus | 4 | x | x | | MTH 220: Discrete Mathematics | 3 | x | x | | | |
| MTH 288: Linear Algebra | 3 | x | x | | MTH 286: Differential Equations | 3 | x | | | | |
| Arts & Humanities Elective (**ALAAME) | 3 | | | A&H | General Elective | 3 | | | | | |
| African American Experience Elective | 3 | | | DIV | EDC 200: Div in Edu Settings | 3 | | x | DIV | | |
| General Elective | 3 | | | | | | | | | | |
| <i>Semester Total</i> | 17 | | | | <i>Semester Total</i> | 15 | | | | | |

| <i>Third Year</i> | | | | | | | | | | | |
|---|---------|-------|---------|--------|--|---------|-------|---------|--------|--|--|
| Fall Semester | Credits | Major | License | Gen Ed | Spring Semester | Credits | Major | License | 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 | | | |
| STA 323: Statistical Methods | 3 | x | x | | ESE 400: Introduction to Special Education | 3 | | x | WAC | | |
| | | | | | | | | | | | |
| <i>Semester Total</i> | 15 | | | | <i>Semester Total</i> | 15 | | | | | |

| <i>Fourth Year</i> | | | | | | | | | | | |
|---|---------|-------|---------|--------|---|---------|-------|---------|---------|--|--|
| Fall Semester | Credits | Major | License | Gen Ed | Spring Semester | Credits | Major | License | 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 | x | WAC/CAP | | |
| STA 424: Probability Theory & Application | 3 | x | x | | | | | | | | |
| MTH 396: Junior Seminar | 2 | x | 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 | | | | | | | | | | | |

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University Notes:

| | |
|--|---|
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| INTRO = Introduction to University Life (one course) | A&H = Arts & Humanities (two courses from different departments) |
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| ** 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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