

Name:

SID:

Adviser:

Requirements for the Bachelor of Science Degree in Mathematics: After Fall 2014 (New Core)

CORE REQUIREMENTS

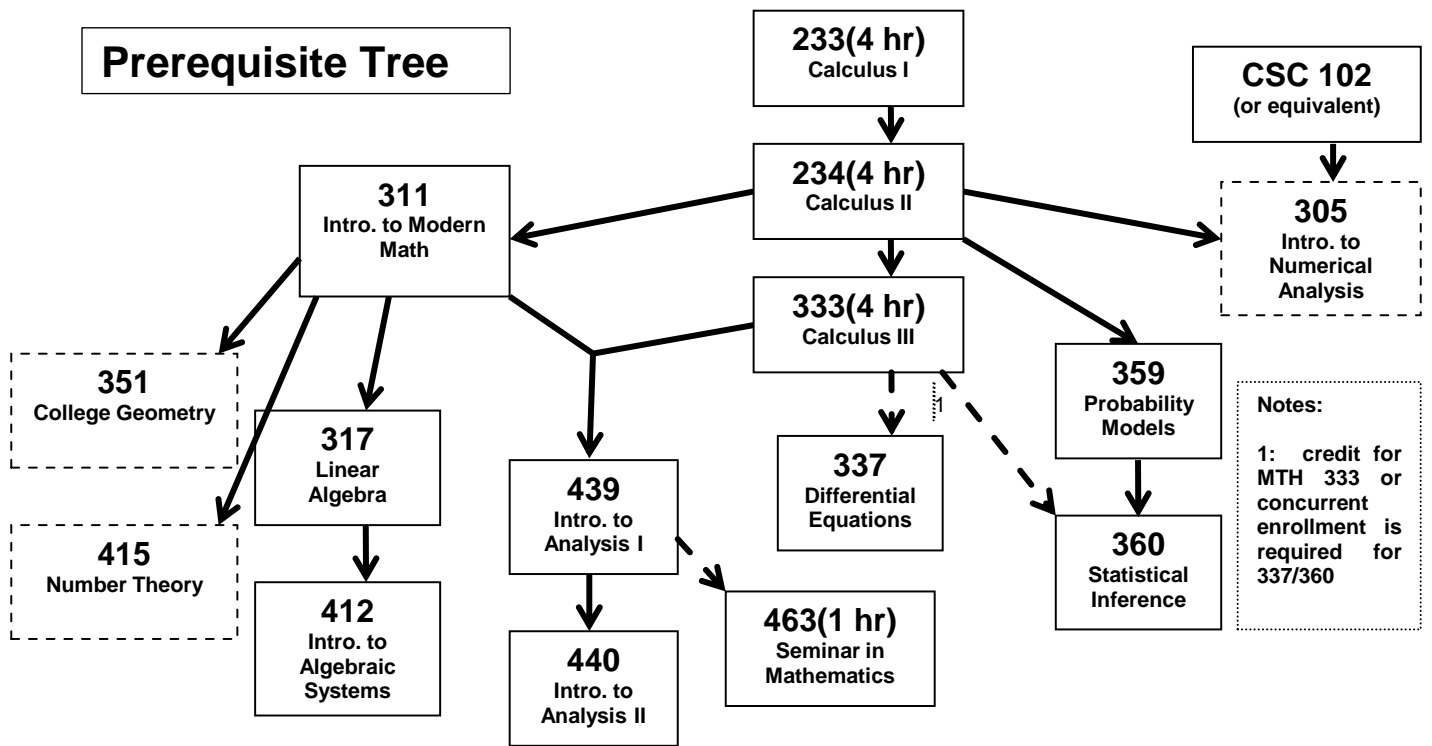
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| Communication (12 hours) | | | Mathematics (6-8 hours, satisfied in MAJOR) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Choose three hrs: | ENG 131 3 | Rhetoric and Composition | Creative Arts, Language, Philosophy and Culture (6 hours) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Choose three hours:</td> <td style="padding: 2px;">ART 280 3</td> <td style="padding: 2px;">Art Appreciation</td> </tr> <tr> <td></td> <td style="padding: 2px;">ART 281 3</td> <td style="padding: 2px;">Art History Survey I</td> </tr> <tr> <td></td> <td style="padding: 2px;">ART 282 3</td> <td style="padding: 2px;">Art History Survey II</td> </tr> <tr> <td></td> <td style="padding: 2px;">DAN 140 3</td> <td style="padding: 2px;">Dance Appreciation</td> </tr> <tr> <td></td> <td style="padding: 2px;">MHL 245 3</td> <td style="padding: 2px;">Intro to Music Literature</td> </tr> <tr> <td></td> <td style="padding: 2px;">MUS 140 3</td> <td style="padding: 2px;">Music Appreciation</td> </tr> <tr> <td></td> <td style="padding: 2px;">THR 161 3</td> <td style="padding: 2px;">Theatre Appreciation</td> </tr> <tr> <td></td> <td style="padding: 2px;">THR 163 3</td> <td style="padding: 2px;">Film and Culture</td> </tr> <tr> <td style="padding: 2px;">Choose three hours:</td> <td style="padding: 2px;">ENG 200 3</td> <td style="padding: 2px;">Intro to Literature</td> </tr> <tr> <td></td> <td style="padding: 2px;">ENG 209 3</td> <td style="padding: 2px;">Mythology</td> </tr> <tr> <td></td> <td style="padding: 2px;">ENG 211 3</td> <td style="padding: 2px;">World Literature to 1650</td> </tr> <tr> <td></td> <td style="padding: 2px;">ENG 212 3</td> <td style="padding: 2px;">World Literature from 1650</td> </tr> <tr> <td></td> <td style="padding: 2px;">ENG 221 3</td> <td style="padding: 2px;">British Literature to 1800</td> </tr> <tr> <td></td> <td style="padding: 2px;">ENG 222 3</td> <td style="padding: 2px;">British Literature from 1800</td> </tr> <tr> <td></td> <td style="padding: 2px;">ENG 229 3</td> <td style="padding: 2px;">American Literature to 1865</td> </tr> <tr> <td></td> <td style="padding: 2px;">ENG 230 3</td> <td style="padding: 2px;">American Literature from 1865</td> </tr> <tr> <td></td> <td style="padding: 2px;">ENG 233H 3</td> <td style="padding: 2px;">Literary Genres</td> </tr> </table> | | | Choose three hours: | ART 280 3 | Art Appreciation | | ART 281 3 | Art History Survey I | | ART 282 3 | Art History Survey II | | DAN 140 3 | Dance Appreciation | | MHL 245 3 | Intro to Music Literature | | MUS 140 3 | Music Appreciation | | THR 161 3 | Theatre Appreciation | | THR 163 3 | Film and Culture | Choose three hours: | ENG 200 3 | Intro to Literature | | ENG 209 3 | Mythology | | ENG 211 3 | World Literature to 1650 | | ENG 212 3 | World Literature from 1650 | | ENG 221 3 | British Literature to 1800 | | ENG 222 3 | British Literature from 1800 | | ENG 229 3 | American Literature to 1865 | | ENG 230 3 | American Literature from 1865 | | ENG 233H 3 | Literary Genres |
| Choose three hours: | ART 280 3 | Art Appreciation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ART 281 3 | Art History Survey I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ART 282 3 | Art History Survey II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DAN 140 3 | Dance Appreciation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHL 245 3 | Intro to Music Literature | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MUS 140 3 | Music Appreciation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | THR 161 3 | Theatre Appreciation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | THR 163 3 | Film and Culture | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Choose three hours: | ENG 200 3 | Intro to Literature | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ENG 209 3 | Mythology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ENG 211 3 | World Literature to 1650 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ENG 212 3 | World Literature from 1650 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ENG 221 3 | British Literature to 1800 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ENG 222 3 | British Literature from 1800 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ENG 229 3 | American Literature to 1865 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ENG 230 3 | American Literature from 1865 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ENG 233H 3 | Literary Genres | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Take: | ENG 133H 3 | Comp & Rhet: Exp and Arg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Take: | ENG 132 3 | Research and Argument | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Choose three hours: | COM 111 3 | Public Speaking | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | COM 170 3 | Interpersonal Comm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | COM 215 3 | Small Group Comm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Choose three hours: | BCM 247 3 | Business Communication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ENG 273 3 | Tech and Scientific Writing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | FRE 131 3 | Elementary French I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | FRE 132 3 | Elementary French II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | GER 131 3 | Elementary German I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | GER 132 3 | Elementary German II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | POR 131 3 | Elementary Portuguese I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | POR 132 3 | Elementary Portuguese II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SPA 131 3 | Elementary Spanish I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SPA 132 3 | Elementary Spanish II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SPH 172 3 | Beg American Sign Lang I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SPH 272 3 | American Sign Language II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|--|-----------|------------------------------|---|-----------|---------------------------------|
| Life and Physical Sciences (15-16 hours) | | | History, Government/Political Science, and Social and Behavioral Sciences (15 hours) | | |
| Choose four: | BIO 131 4 | Principles of Botany | Take both: | HIS 133 3 | US Hist Survey: 1000-1877 |
| | BIO 133 4 | Principles of Zoology | | HIS 134 3 | US Hist Survey: 1877-Pres |
| | BIO 225 3 | Local Flora | Take both: | PSC 141 3 | Intro Govt: Theory and Politics |
| | BIO 238 4 | Human Anat and Phys I | | PSC 142 3 | Intro Govt: Struct and Funct |
| (at least two sciences) | CHE 133 4 | General Chemistry I | Choose three hours: | ANT 231 3 | Cultural Anthropology |
| | CHE 134 4 | General Chemistry II | | ECO 231 3 | Principles of Macroeconomics |
| | GOL 131 4 | Introductory Geology I | | ECO 232 3 | Principles of Microeconomics |
| | GOL 132 4 | The Earth Through Time | | GEO 131 3 | World Regional Geography |
| | PHY 110 4 | Fund of Electronics | | PSY 133 3 | General Psychology |
| | PHY 131 4 | Mechanics and Heat | | SOC 137 3 | Introduction to Sociology |
| | PHY 132 4 | Electricity, Sound and Light | (Courses used to satisfy core requirements may also satisfy major and minor requirements) | | |
| | PHY 241 4 | Technical Physics I | | | |
| | PHY 242 4 | Technical Physics II | | | |
| | AST 105 4 | Classical and Modern Ast | | | |

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|--|-----------|----------------------------|---|--|--|
| MAJOR (40 hours MTH, 3 hours CSC) | | | MINOR (18-24 hours, at least 6 advanced) | | |
| Take all: | MTH 233 4 | Calculus I | Choose minor; see Bulletin (8-12 Teaching and Applied Statistics minors on reverse) | | |
| | MTH 234 4 | Calculus II | | | |
| | MTH 311 3 | Intro to Modern Math | | | |
| | MTH 317 3 | Linear Algebra | | | |
| | MTH 333 4 | Calculus III | | | |
| | MTH 337 3 | Differential Equations | | | |
| | MTH 359 3 | Probability Models | | | |
| | MTH 360 3 | Statistical Inference | | | |
| | MTH 412 3 | Intro to Algebraic Systems | | | |
| | MTH 439 3 | Intro to Analysis I | | | |
| Choose one: | MTH 440 3 | Intro to Analysis II | Note: this sheet is intended to be an aid for academic advising, and not as a substitute for the General Bulletin. If there are any discrepancies, the Bulletin takes precedence. | | |
| | MTH 463 1 | Seminar in Mathematics | | | |
| | MTH 305 3 | Intro to Numerical Methods | | | |
| | MTH 351 3 | College Geometry* | | | |
| | MTH 415 3 | Number Theory | | | |
| Take: | CSC 102 3 | Comp Sci Principles | | | |

*: required for 8-12 Teaching

(updated 27 Nov 2017)



| Minor in 8-12 Teaching (3 hours HMS, 24 hours SED) | | | | |
|---|-----------|---|------------------------------|------------------------|
| Take both: | HMS 203 | 3 | Human Development | (req'd for TE program) |
| | SED 370 | 3 | Intro to Ped and Active Lrng | |
| Then apply for admission to Teacher Ed. Program (Requires 60+ hours earned, degree plan on file, 2.75+ GPA in major--- See General Bulletin for full details) | | | | |
| Take these: | SED 371 | 3 | Learner-Centered Curriculum | (req'd for Internship) |
| | SED 372 | 3 | Reading and Inf Literacy | |
| Internship Block | SED 450/L | 3 | Div in a Learner Cent Env | Next-to-last sem. |
| | SED 460 | 3 | Managing a Lrnr Cent Class | |
| Student Teaching | SED 442 | 6 | Student Teaching | Final Semester |
| | SED 443 | 3 | The Professional Educator | |

| Minor in Applied Statistics (6-7 hours MTH, 12 hours STA) | | | | |
|---|---------|---|----------------------------|-------------------|
| Take one: | MTH 233 | 4 | Calculus I | (preferred) |
| | MTH 144 | 3 | Business Calculus | |
| Take these: | MTH 220 | 3 | Intro to Prob and Stat | |
| | STA 320 | 3 | Statistical Methods | (prereq: 220) |
| | STA 321 | 3 | Applied Nonparametric Stat | (prereq: 220) |
| | STA 322 | 3 | Regression | (prereq: 144/233) |
| | STA 327 | 3 | Exper Design and Analysis | (prereq: 320) |