

**Program: Mathematics Teaching Bachelor of Science**

**Total Credits: 120**

**Catalog: Fall 2024 to Summer 2025**



## Four Year Graduation Planner

- This guide is intended to show a recommended four-year pathway to a degree if student is college ready and full-time.
- It is only a sample; there may be other pathways that lead to completion of the degree in four years.
- It is NOT intended to take the place of meetings with advisors or intended to take the place of the Degree Audit System (DARs).

**Key to tables below. More details on final page.**

Core: fulfills required course for major	Elective: student selected course credits for major	GELS: General Education Liberal Studies Goal Area	LS: Liberal Studies
EdCore: Education Core Courses	PreEd: Pre-Professional Education Courses	Pre/Premajor: Premajor foundation course	RIGR: Racial Issues Graduation Requirement

### First Year

Course	Requirement Met	Semester Offered	Credits	Credit Hour Total
METR 101 Your Academic Journey	GELS elective	Fall, Spring	3	
MATH 210 Calculus I	Pre/GELS Goal 4	Fall, Spring, Summer	4	
General Education Communication	GELS Goal 1	Fall, Spring, Summer	3	
General Education Writing	GELS Goal 1	Fall, Spring, Summer	3	13
MATH 210 Calculus II	Premajor	Fall, Spring, Summer	4	
STAT 201 Statistics I	Premajor	Fall, Spring, Summer	4	
General Education Writing II	GELS Goal 1	Fall, Spring, Summer	3	
General Education	GELS Goal 6 and 8	Varies	3-4	
General Education	GELS Goal 3	Varies	3-5	17-20
First Year Total				30-32

### Second Year

Course	Requirement Met	Semester Offered	Credits	Credit Hour Total
MATH 215 Discrete Mathematics	Core	Fall, Spring, Summer	4	
MATH 310 Multivariable Calculus	Core	Fall	4	

## Continued

EDU 200 Intro to Urban Education and Reflective Teaching	EdCore	Fall, Spring	3	
General Education	GELS Goal 6 and 7	Varies	3-4	14-15
MATH 315 Linear Algebra	Core	Fall, Spring	4	
EDU 203 Multicultural Education	PreEd	Fall, Spring	3	
General Education	GELS Goal 5 and RIGR	Varies	3-4	
General Education	GELS Goal 9 and LS	Varies	3-4	13-15
Second Year Total				27-30

## Third Year

Course	Requirement Met	Semester Offered	Credits	Credit Hour Total
MATH 230 Intro to Math Modeling	Core	Fall (1 <sup>st</sup> half)	2	
MATH 330 Optimization	Core	Fall (2 <sup>nd</sup> half)	2	
EDU 300 Assessment of Learning and Teaching in Diverse Urban Classrooms	EdCore	Varies	3	
EDU 306 Urban Middle School & High School Teaching Methods	EdCore	Fall, Spring	4	
EDU 311 Urban Teaching Practicum	EdCore	Fall, Spring	0	
General Education	GELS Goal 3	Varies	3-5	14-16
MATH 301 Introduction to Analysis	Core	Spring	4	
EDU 310 Teaching and Assessing Students with Disabilities	EdCore	Spring	4	
EDU 400 Literacy Education in Urban Schools	EdCore	Spring	3	
General Education	GELS Goal 10	Varies	3-4	14-15
Third Year Total				28-30

## Fourth Year

Course	Requirement Met	Semester Offered	Credits	Credit Hour Total
EDU 435 Teaching ELL Students in Content Area Classrooms	EdCore	Fall, Spring, Summer	3	

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MATH 471 Abstract Algebra	Core	Fall	4	
MAED 450 Teaching Mathematics to Urban Learners in Grades 5 – 12	Core	Fall	4	
EDU 450 Advanced Urban Teaching Practicum and Seminar	EdCore	Fall	0	
EDU 415 Managing Learning in Diverse Urban Classrooms	EdCore	Varies	3	
EDU 430 Historical & Cultural Foundations of Urban Education	EdCore	Fall, Spring, Summer	3	17
MATH 370 Modern Geometry	Core	Spring	4	
EDU 460 Student Teaching in the Urban Middle School or EDU 470 Student Teaching in the Urban High School	EdCore	Fall, Spring	6	10
Fourth Year Total				24

## Academic and graduation requirements

### Course requirements

#### Credit requirements: 120 total credits

- 40 upper-division credits (courses at community colleges are all lower-division courses, so they do not count toward this requirement)
- 30 credits completed at Metropolitan State University
- 40 general education credits
- 8 upper-division liberal studies credits
- 3 [racial issues graduation requirement \(RIGR\)](#) credits
- All credit requirements for the major
- Elective credits (if you are short of the 120 total credits required for graduation)

#### GELS: General education/liberal studies requirements (48 credits)

- [Minnesota Transfer Curriculum](#): 40 credits. Goal areas 1–10 are met by Minnesota community college A.A. degree. They are *not* met by A.S. or A.A.S degrees or community colleges outside of Minnesota.

Continued

- [Liberal studies](#): 8 credits.
  - These credits must be:
    - Upper-division general education courses (300 to 500 level)
    - Designated as a liberal studies (LS) course
  - These credits are not:
    - completed by AA, AAS or AS degrees or the Minnesota Transfer Curriculum
    - met by any community college course (all community college courses are lower division, including courses that meet major requirements)

### **Racial Issues Graduation Requirement (RIGR) and transfer coursework**

All new or readmitted undergraduate students admitted fall 2016 or later must complete an approved learning experience (at least 3 credits) with a significant focus on race and racism to graduate with a bachelor's degree from the university. Upon review, an approved prior learning, independent study, theory seminar or transfer course from other accredited institutions may also be used to meet this graduation requirement.

### **DARS: Your degree audit report**

The Degree Audit report is a degree planning tool for students that includes both transfer and Metropolitan State coursework. You can access your Degree Audit report in [eServices](#) under “Academic Records.” The report includes:

- How your transfer credits have been accepted and applied to General Education and Liberal Studies, including the Minnesota Transfer Curriculum.
- All the requirements needed to complete a specific program.
- Courses that have already been completed, grades received and hours earned, both at Metropolitan State and in transfer.
- Transfer courses that have been made equivalent to Metropolitan State University courses.
- Exceptions to degree and program requirements that have been processed.
- What is still needed to complete a program, with a list of courses that will satisfy each requirement.



*Metropolitan State University,*  
a member of Minnesota State



Metro State is a Yellow Ribbon University, serving the most veterans and active-duty military members in Minnesota.

To request accommodations for a disability, contact Accessibility Resources at 651.793.1549 or [accessibility.resources@metrostate.edu](mailto:accessibility.resources@metrostate.edu)