

URBAN STEM EDUCATION SECONDARY (BS)

Math Concentration

2023-2024 RECOMMENDED PROGRAM SEQUENCE (Full-time)

120 CREDITS

UE STEMSC BS [MTHC]

FRESHMAN YEAR

<u>Fall Semester</u>		(12 credits)	<u>Winter Semester</u>		(16 credits)
ACES100	Achieving Career and Education Success	3	ENGL110	Advanced Composition	3
ENGL109	Composition	3	MATH150	Pre-Calculus	4
HUMN101	Arts and Culture	3	SOSC201	Diversity in Society	3
MATH120	College Mathematics	3	STAT220	Introduction to Statistics	3
UEDU151**	Experiential Learning	0	UEDU151**	Open Electives	3
			UEDU151**	Experiential Learning	0

**UEDU151 can be completed in 1-2 semesters and must be completed within the same academic year. A course fee is applied for each semester of enrollment.

SOPHOMORE YEAR

<u>Fall Semester</u>		(16 credits)	<u>Winter Semester</u>		(15 credits)
MATH205	Applied Linear Algebra	4	MATH216	Calculus II	4
MATH215	Calculus I	4	MATH260	College Geometry	3
UEDU240	Literacy Methods	3	UEDU260	Developmental Psychology Urban Cnxt	3
UEDU240L	Literacy Methods Lab	1	UEDU288	Instructional Planning & Delivery	3
UEDU330	Multicultural Teaching Practices	3	UEDU192	Teacher Assistance in Urban Schools	2
UEDU191	Tutoring in Urban Schools	1	UEDU152**	Experiential Learning	0
UEDU152**	Experiential Learning	0			

**UEDU152 can be completed in 1-2 semesters and must be completed within the same academic year. A course fee is applied for each semester of enrollment.

JUNIOR YEAR

<u>Fall Semester</u>		(16 credits)	<u>Winter Semester</u>		(17 credits)
HIST270	Survey of American History	4	HIST265	Survey of World History	4
MATH250	Discrete Structures	3	MATH350	Differential Equations with Modeling	4
STAT322	Inferential Statistics	3	UEDU370	Advanced Secondary Science Methods	3
UEDU285	Teaching Diverse Learners	3	UEDU374	MTTC Prep Course	3
UEDU340	Using Technology to Enhance Learning	3		Open Electives	3
UEDU153**	Experiential Learning	0	UEDU153**	Experiential Learning	0

**UEDU153 can be completed in 1-2 semesters and must be completed within the same academic year. A course fee is applied for each semester of enrollment.

SENIOR YEAR

<u>Fall Semester</u>		(16 credits)	<u>Winter Semester</u>		(12 credits)
MATH440	Mathematical Structures and Proofs	4	UEDU425	Inquiry-Based Urban STEM Methods	3
UEDU325	Classroom Data & Assessment	3	UEDU438	STEM Literacy in Urban Context	3
UEDU371	Secondary Math Instruction	3	UEDU495	Urban STEM Capstone	3
UEDU415	Inquiry-Based STEM Curriculum Design	3		Open Electives	3
	Open Elective	3	UEDU154**	Experiential Learning	0
UEDU154**	Experiential Learning	0			

**UEDU154 can be completed in 1-2 semesters and must be completed within the same academic year. A course fee is applied for each semester of enrollment.



Last Updated: 7/31/2023 MP

Finalized: