

## URBAN STEM EDUCATION SECONDARY (BS)

### Biology Concentration

2023-2024 RECOMMENDED PROGRAM SEQUENCE (Full-time)

120 CREDITS

UE STEMSC BS [BIOC]

#### FRESHMAN YEAR

<u>Fall Semester</u>		(13 credits)	<u>Winter Semester</u>		(14 credits)
ACES100	Achieving Career and Education Success	3	BIOL111	Organisms and Populations	3
BIOL110	Foundations of Cell Biology	3	BIOL111L	Organisms and Populations Lab	1
BIOL110L	Foundations of Cell Biology Lab	1	ENGL110	Advanced Composition	3
ENGL109	Composition	3	SOSC201	Diversity in Society	3
MATH120	College Mathematics	3	MATH150	Pre-Calculus	4
UEDU151**	Experiential Learning	0	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>		(16 credits)
BIOL211	Microbiology	3	BIOL336	Genetics	4
BIOL211L	Microbiology Lab	1	CHEM161	General Chemistry II	3
CHEM160	General Chemistry 1	3	CHEM161L	General Chemistry II Lab	1
CHEM160L	General Chemistry 1 Lab	1	UEDU288	Instructional Planning & Delivery	3
UEDU330	Multicultural Teaching Practices	3	UEDU260	Developmental Psychology Urban Context	3
UEDU191	Tutoring in Urban Schools	1	UEDU192	Teacher Assistance in Urban Schools	2
UEDU240	Literacy Methods	3	UEDU152**	Experiential Learning	0
UEDU240L	Literacy Methods Lab	1			
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>		(18 credits)	<u>Winter Semester</u>		(14 credits)
BIOL209	Techniques in Laboratory Science	4	CHEM310	Biochemistry	3
BIOL354	Cell and Molecular Biology	3	CHEM310L	Biochemistry Lab	1
BIOL354L	Cell and Molecular Biology Lab	1	HIST265	Survey of World History	4
HIST270	Survey of American History	4	UEDU370	Advanced Secondary Science Methods	3
UEDU285	Teaching Diverse Learners	3	UEDU374	MTTC Prep Course	3
UEDU340	Using Technology to Enhance Learning	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>		(15 credits)	<u>Winter Semester</u>		(14 credits)
BIOL382	Science Ethics	3	BIOL430	Advanced Microbiology	3
HUMN101	Arts and Culture	3	BIOL430L	Advanced Microbiology Lab	1
UEDU325	Classroom Data & Assessment	3	UEDU425	Inquiry-Based Urban STEM Methods	3
UEDU415	Inquiry-Based STEM Curriculum Design	3	UEDU438	STEM Literacy in Urban Context	3
	Open Elective	3	UEDU495	Urban STEM Capstone	4
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.



DAVENPORT UNIVERSITY

This information is subject to change and cannot be considered an agreement or contract between individual students and Davenport University. Refer to the current University catalog to confirm degree requirements.

Last Updated: 7/31/2023 MP

Finalized: