

LIFE SCIENCES TEACHING (BS) MAJOR

NATURAL SCIENCES DEPARTMENT

MAJOR CHECKLIST FALL 2020 – SUMMER 2021

This checklist aids in placement of students into their major coursework and documents the department evaluation of transferred credit and course waivers, based on coursework listed on the Degree Audit Report (DARs). A student must complete General Education and Liberal Studies (GELS) along with other graduation requirements for graduation – refer to your DARs. All coursework for the major must be completed with the grade of C- or better.

Student Name	Metro State ID #	Admission Date or Semester
Advisor Name	Evaluation Date	Declaration Date or Semester

MATH & PRE-MAJOR FOUNDATION: 16 CREDITS

Each foundation science course must include at least one semester credit of professionally supervised, on-ground laboratory experience with standard undergraduate laboratory equipment and materials. Note that Math foundation courses are pre-requisites that do not count toward major credit totals.

Course #	Title	Transfer Equivalent Details	Grade	Credits	Term
MATH 115 OR MATH 120 OR Placement	College Algebra OR Precalculus				
BIOL 111	General Biology I				
BIOL 112	General Biology II				
CHEM 111	General Chemistry I				
CHEM 112	General Chemistry II				

CORE REQUIREMENTS FOR MAJOR: 36-42 CREDITS

LOWER-DIVISION CORE: 16-22 CREDITS

Course #	Title	Transfer Equivalent Details	Grade	Credits	Term
GEOL 110	Introduction to Earth Science			4	
STAT 201	Introduction to Statistics			4	

Course #	Title	Transfer Equivalent Details	Grade	Credits	Term
BIOL 211	Principles of Genetics			4	
PHYS 110; OR both PHYS 211 and 212	Introduction to Physics; Or, Calculus Based Physics I and II			4-10	

UPPER-DIVISION CORE COURSES: 20 CREDITS

Select one course with lab in each of the three core categories.

CELL AND MOLECULAR COURSE OPTIONS – SELECT ONE

Course #	Title	Transfer Equivalent Details	Grade	Credits	Term
BIOL 302	Cell Biology and Histology			5	
BIOL 304	Molecular Biology			5	

ECOLOGY AND EVOLUTIONARY COURSE OPTIONS – SELECT ONE

Course #	Title	Transfer Equivalent Details	Grade	Credits	Term
BIOL 310	Ecology			5	
BIOL 312	Evolution			5	
ESCI 315	Limnology			5	

PHYSIOLOGY AND ORGANISMAL COURSE OPTIONS – SELECT ONE

Course #	Title	Transfer Equivalent Details	Grade	Credits	Term
BIOL 311	Plant Physiology			5	
BIOL 322	Comparative Animal Physiology			5	
BIOL 330	Biology of Microorganisms			5	

LICENSURE EXAM PREP: 1 CREDIT

BIOL 380 Preparing for Licensure Content Exam (1cr) Currently under academic development and approval. Advise to be taken semester of graduation.

URBAN SECONDARY EDUCATION LICENSURE: 34 CREDITS

An additional 34-credits of education courses and admission into the Urban Teacher Program (UTP) are separate from the Life Sciences Teaching major requirements but required for licensure, for a total of 86 credits needed for this program.

Contact UTP for more information about program admission requirements.

PRE-MAJOR EDUCATION COURSES: 6 CREDITS

The following pre-major courses are open to all students and are required for admission to the Urban Teacher Program (UTP) along with several other admission requirements, including at least 40 hours working with youth in an urban setting and admission to the major.

- EDU 200 *Introduction to Urban Education 3 credits*
- EDU 203 *Multicultural Education 3 credits*

CORE LICENSURE REQUIREMENTS: 22 CREDITS

Students must be admitted to the major and the Urban Teacher Program to register for the following courses. This encompasses the completion of at least 120 hours of practicum experiences in urban middle school (60 hours) and urban high school (60 hours) classrooms in your licensure subject area.

- EDU 300 *Assessment of Learning and Teaching in Diverse Urban Classrooms 3 credits*
- EDU 306 *Urban Middle School and High School Teaching Methods 4 credits*
- EDU 311 *Urban Teaching Practicum 0 credits*
- EDU 310 *Teaching and Assessing Students with Disabilities 3 credits*
- EDU 400 *Literacy Education in Urban Schools 3 credits*
- EDU 415 *Managing Learning in Diverse Urban Classrooms 3 credits*
- EDU 430 *Historical and Cultural Foundation of Urban Education 3 credits*
- EDU 435 *Teaching ELL Students in Content Area Classrooms 3 credits*
- EDU 450 *Advanced Urban Teaching Practicum and Seminar 0 credits*

STUDENT TEACHING REQUIREMENTS: 6 CREDITS

Completion of 12 weeks of full-time student teaching. Choose one of the following.

- EDU 460 *Student Teaching in Urban Middle School (grades 5-8) 6 credits*
- EDU 470 *Student Teaching in Urban Middle School (grades 9-12) 6 credits*

ADDITIONAL NOTES, CREDIT TOTALS OR COMMENTS:

Academic advisor notes:

GRADUATION REQUIREMENTS

Below is a summary of residency and graduation requirements for this major and used as an advising tool as you work towards completion. Students are advised to reference their DARs for official graduation requirements.

Major Requirements Checklist	In Progress	Completed
68 Major credits		
25 Metro State Major Credits		
25 Upper Division Major (300 or higher)		

University Requirements Checklist	In Progress	Completed
120 Total Credits (minimum)		
30 Metro State Credits		
40 Upper Division (300 or higher)		
48 credits GELS +RIGR	See DARs for details	

NATURAL SCIENCES DEPARTMENT CONTACT INFORMATION

For specific questions about this major program or equivalencies of prior coursework at other institutions, contact the Chair of the Natural Sciences Department at:

Email: natural.sciences@metrostate.edu Web: www.metrostate.edu/natural-sciences

Tel: 651-793-1515



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