# Life Sciences Education

**Major:** B.S. Life Sciences Teaching  
(Natural Sciences Dept., College of Arts & Sciences)  
**Licensure:** Life Science gr 9-12, General Science gr 5-8  
(Urban Teacher Program, School of Urban Education)  
**Total Credits:** 84 to 94

## MAJOR COURSES  
(38 to 48 cr Science + 8cr SCED = 46 to 56 total credits)

### Prerequisites

Credits not included in the major; credits count towards University graduation requirements.

- MATH 115 College Algebra  
- or  
- MATH 120 Precalculus

### Foundation Courses (20cr)

All of the Prerequisite and Foundation courses are required for admission to the Life Sciences Teaching Major. Any two of the following are required for admission to the Urban Teacher Program.

- **BIOL 111 General Biology I** (5cr)  
- **BIOL 112 General Biology II** (5cr)  
- **CHEM 111 General Chemistry I** (5cr)  
- **CHEM 112 General Chemistry II** (5cr)

### Core Courses (22-24cr)

Students do not need to be admitted to the UTP to take these courses. Each course has prerequisites. See catalog for details.

#### Earth Science

(choose one of the following options, 4-8cr)

- **GEOL 110 Intro to Earth Science** (4 cr)  
- **OR**  
- **GEOL 101 Intro to Geology** (4 cr)  
- **AND**  
- **PHYS 101 Intro to Astronomy** (4 cr)

#### Physics

(choose from the following options, 4-10 cr)

- **PHYS 110 Intro to Physics** (4 cr)  
- **OR**  
- **PHYS 111 & 112 General Physics I & II** (10 cr)  
- **OR**  
- **PHYS 211 & 212 Calc-based Physics I & II** (10 cr)

#### Ecology

(choose one of the following courses, 5cr)

- **BIOL 310 Ecology** (5 cr)  
- **BIOL 312 Evolution** (5 cr)  
- **ESCI 315 Limnology** (5 cr)  
- **BIOL 318 Spatial Ecology** (5 cr)  
- **BIOL 320 Ecosystem and Global Ecology** (5 cr)

#### Genetics & Cell Biology

(choose one of the following courses, 5cr)

- **BIOL 301 Genetics** (5 cr)  
- **BIOL 302 Cell Biology and Histology** (5 cr)  
- **BIOL 304 Molecular Biology** (5 cr)

### NOTES:

- **t** courses recommended for those planning to teach in high school  
- **m** courses recommended for those planning to teach in middle school

## URBAN EDUCATION COURSES  
(30cr)

### Pre-Professional Education Courses (6cr)

The following 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. Contact the UTP for more information about program admission requirements.

- **EDU 200 Introduction to Urban Education and Reflective Teaching** (3cr)
- **EDU 203 Multicultural Education** (3cr)

### Professional Education Courses (24cr)

The following courses are open to students who are admitted to the Urban Teacher Program.

- **EDU 300 Assessment of Learning and Teaching in Diverse Urban Classrooms** (3cr)
- **EDU 306 Urban Middle School & High School Teaching Methods** (4cr)  
- **Co-requisite:** EDU 311 Urban Teaching Practicum (0-1cr)
- **EDU 310 Teaching and Assessing Students with Disabilities** (3cr)
- **EDU 383 Information Technology for K-12 Learning and Teaching** (2cr)
- **EDU 400 Literacy Education in Urban Schools** (3cr)
- **EDU 415 Managing Learning in Diverse Urban Classrooms** (3cr)
- **EDU 430 Historical & Cultural Foundations of Urban Education** (3cr)
- **EDU 435 Teaching ELL Students in Content Area Classrooms** (3cr)  
- **EDU 450 Advanced Urban Teaching Practicum and Seminar** (0-1cr)  
- **Co-requisite:** SCED 450

### Science Education Methods Courses (8cr)

These courses are required for the major and licensure. It is strongly recommended that they be taken during the two semesters prior to student teaching.

- **SCED 445 Practice of Science** (4cr)
- **SCED 450 Science Methods for Urban Grades 5-12 Classrooms & Labs** (4cr)  
- **Prerequisites:** EDU 300, EDU 306 and at least 28 credits of science courses in the Life Sciences Teaching major  
- **Co-requisite:** SCED 450 Advanced Urban Teaching Practicum and Seminar (0-1cr)

### Student Teaching (8cr total, 12 weeks full-time)

Teacher Candidates must notify the UTP Field Experience Director two semesters before the intended fall or spring student teaching semester and submit a student teaching application packet.

- **EDU 460 Student Teaching in the Urban Middle School**  
- **OR**  
- **EDU 470 Student Teaching in the Urban High School**

For more information, visit [www.metrostate.edu/ued](http://www.metrostate.edu/ued), email [UTP-Info@metrostate.edu](mailto:UTP-Info@metrostate.edu) or call 651-999-5920.

Note: Course requirements subject to change; contact the program to verify this is the most up-to-date information.
Admission to the Urban Teacher Program (UTP) requires admission to Metropolitan State University and demonstration of meeting UTP admission criteria by fulfilling the admission requirements listed below. In order to enroll in 300 & 400 level EDU courses, you must be conditionally admitted to the Urban Teacher Program.

**Criteria**

- Demonstrate commitment to teaching in an urban context.
- Demonstrate understanding of and respect for diverse urban learners and their communities.
- Successfully complete at least 40 hours of experience working with youth in an urban setting.
- Demonstrate professional conduct for positive interactions with students and educators in an urban environment.
- Successfully complete EDU and ETHN coursework required for admission with a C or higher and an overall GPA of 2.5 or higher (students with a 2.0-2.49 GPA may apply for conditional admission).

**Requirements for Full UTP Admission**

- Meet with a UTP advisor about the program including all admissions requirements, complete a major program declaration form, and attend a UTP Mandatory Orientation session.
- Complete all of the following courses:
  - University General Education course requirements in all 10 Goal Areas (40cr)
  - One approved Ethnic Studies (ETHS) course (4cr) focusing on issues of race and racism experienced by various communities of color (contact the UTP advisor for a list of approved courses).
  - EDU 200 Introduction to Urban Education & Reflective Teaching (3cr) and EDU 203 Multicultural Education (3cr).
  - At least 8 credits of courses required for your major that are not offered by the School of Urban Education (e.g., Biology, Literature, Mathematics, Psychology, or Social Science).
- Submit essay written in EDU 200 titled “Why I will be an effective urban [insert license area] teacher.”
- Submit documentation of at least 40 hours of recent field experience with diverse youth in a qualified urban context (Most hours can be gained while completing EDU 200 & EDU 203; prior experience within the past 5 years may count).
- Submit Two Recommendations (One recommendation from someone who observed or supervised some of your experience with urban youth, and one recommendation from an instructor of a course required in your major/licensure program).
- Take the Basic Skills Reading, Writing, Math MN Teacher Licensing Exams (MTLE) (passing these and other assessments are required for licensure upon program completion).
- Activate a Taskstream account (ask UTP Advisor for details).

**UTP Admission Application Due Dates**

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<thead>
<tr>
<th>Deadlines for Early Registration:</th>
<th>Deadlines for Final Registration:</th>
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<tbody>
<tr>
<td>March 15th (for fall), October 15th (for spring), March 15th (for summer)</td>
<td>August 1st (for fall), December 15th (for spring), April 15th (for summer)</td>
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