

## Life Sciences Teaching B.S.

Life Sciences Teaching Major	Life Sciences Teaching Major (cont.)
<p style="text-align: center;"><b>Prerequisites</b></p> <p>Credits not included in the major; credits count towards University graduation requirements.</p> <p>_____ MATH 115 College Algebra  <b>OR</b> MATH 120 Precalculus</p>	<p style="text-align: center;"><b>Science Education Courses (8 cr)</b></p> <p>The following courses are required for the major and should be taken during the two semesters prior to student teaching.</p> <p>Prerequisites: EDU 300, EDU 306 and at least 28 credits of science courses in the Life Sciences Teaching major.</p> <p>Co-requisite: EDU 450 Advanced Urban Teaching Practicum and Seminar (0-1cr)</p> <p>_____ SCED 445 Practice of Science (4cr)            _____ SCED 450 Science Methods for Urban Grades 5-12 Classrooms &amp; Labs (4cr)</p>
<p style="text-align: center;"><b>Foundation Courses (20cr)</b></p> <p>The Prerequisite and Foundation courses are required for admission to the Life Sciences Teaching Major and for admission to the Urban Teacher Program.</p> <p>_____ BIOL 111 General Biology I (5cr)            _____ BIOL 112 General Biology II (5cr)            _____ CHEM 111 General Chemistry I (5cr)            _____ CHEM 112 General Chemistry II (5cr)</p>	<p style="text-align: center;"><b>Minnesota Teaching Licensure</b></p> <p>Students who seek to earn Minnesota Teaching Licensure can do so by completing the Life Sciences Teaching Major <u>and</u> additional requirements and coursework through the university's Urban Teacher Program. Contact the Urban Teacher Program for information about the program requirements. Please note that the university's Education Department has primary responsibility for recommending students for licensure.</p>
<p style="text-align: center;"><b>Core Courses (18-28cr)</b></p> <p>Students do not need to be admitted to the UTP to take these courses. Each course has prerequisites. See catalog for details.</p> <p>Earth Science (4-8cr)            _____ GEOL 110 Intro to Earth Science (4 cr)<sup>1</sup>            or            _____ GEOL 101 Intro to Geology <u>and</u>            _____ PHYS 101 Intro to Astronomy (8 cr)<sup>2</sup></p> <p>Physics (4-10 cr)            _____ PHYS110 Intro to Physics (4 cr)<sup>2</sup>            or            _____ PHYS 111 &amp; 112 General Physics I &amp; II (10 cr)<sup>1</sup>            or            _____ PHYS 211 &amp; 212 Calc-based Physics I &amp; II (10cr)<sup>1</sup></p> <p>Ecology (5cr)            _____ BIOL 310 Ecology (5 cr)            _____ BIOL 312 Evolution (5 cr)            _____ BIOL 315 Limnology (5 cr)            _____ BIOL 318 Spatial Ecology (5 cr)            _____ BIOL 320 Ecosystem and Global Ecology (5 cr)</p> <p>Genetics &amp; Cell Biology (5cr)            _____ BIOL 301 Genetics (5 cr)            _____ BIOL 302 Cell Biology and Histology (5 cr)            _____ BIOL 304 Molecular Biology (5 cr)</p> <p>NOTE: <sup>1</sup>GEOL 110 and PHYS 111&amp;112 or PHYS 211&amp;212 are recommended for those planning to teach High School;  <sup>2</sup>GEOL101 &amp; PHYS101 and PHYS 110 are recommended for those planning to teach Middle School.</p>	<p style="text-align: center;"><b>Summary of Graduation Requirements</b></p> <p><b>University</b>            120 total credits _____            30 MetroStateUniv credits _____            40 upper division credits _____            General Education goal areas <u>see DARS report for details</u></p> <p><b>Life Sciences Teaching Major</b>            46-56 total major credits _____            23 MetroStateUniv major credits _____            18 upper division major credits _____</p> <p style="text-align: center;"><b>Comments</b></p>

*Contact the Natural Sciences Department for information about the Major; contact the Education Department for information about the Program. Course requirements subject to change.*