

# Middle Grades Education (5-9)

## Pre-requisites

Students interested in teacher certification in Middle Grades Education (grades 5-9) first complete a bachelor's degree with a major in either English, Mathematics, History, or any of the Natural Sciences (such as Biology, Chemistry, Earth Science or Physics) prior to entering the teacher certification program at the graduate level. Students must apply and be accepted into the Master of Arts in Teaching (MAT) degree program in order to complete teacher certification. Please review the admissions packet of general admission requirements for the MAT program.

Those students who do not complete a major in one of the abovementioned areas must complete the prerequisite courses as indicated below to be eligible for application to the program. These prerequisite courses may be taken in post-baccalaureate status. An overall 2.50 grade point average is required for these prerequisite courses.

Language Arts	Mathematics	Social Studies
<ul style="list-style-type: none"><li>• ENGL xxx, Advanced composition (3 hours)</li><li>• ENGL 202, Introduction to Creative Writing (3 hours)</li><li>• ENGL 535, Applied Linguistics for English Teachers (3 hours)</li><li>• EDTP 540, Teaching Adolescent Readers (3 hours)</li><li>• COMM 201, Advanced Speech Communication (3 hours)</li><li>• ENGL 311, American Literature I <b>or</b> ENGL 312, American Literature II (3 hours)</li><li>• ENGL 301, British Literature I <b>or</b> ENGL 302, British Literature II (3 hours)</li><li>• ENGL 373, Women in Literature (3 hours)</li><li>• PAS 340, African American Literature (3 hours)</li></ul>	<ul style="list-style-type: none"><li>• MATH 105, Introduction to Contemporary Mathematics <b>or</b> MATH 111, College Algebra <b>or</b> MATH 112, Trigonometry <b>or</b> MATH 190, Precalculus (3-4 hours)</li><li>• MATH 151, Mathematics for Elementary Education (3 hours)</li><li>• CIS 100, Intro to Microcomputer Applications (3 hours)</li><li>• MATH 350, Geometric Investigations (3 hours)</li><li>• MATH 107*, Finite Mathematics (3 hours)</li><li>• MATH 109*, Elementary Statistics <b>or</b> MATH 560, Statistical Data Analysis (3 hours)</li><li>• MATH 451, Problem Solving for Teachers (3 hours)</li><li>• MATH 180, Elements of Calculus <b>or</b> MATH 205, Calculus I (3-4 hours)</li></ul> <p>*MATH 349, Probability &amp; Statistics for Teachers is typically offered during the summers. This course can be used to replace both MATH 107 and MATH 109/560.</p>	<ul style="list-style-type: none"><li>• HIST 101, History of World Civilizations I (3 hours)</li><li>• HIST 102, History of World Civilizations II (3 hours)</li><li>• HIST 211, American History I (3 hours)</li><li>• HIST 212, American History II (3 hours)</li><li>• GEOG xxx, Geography course (3 hours)</li><li>• POLS xxx, Political Science course (3 hours)</li><li>• ECON 201, Principles of Microeconomics <b>or</b> ECON 202, Principles of Macroeconomics (3 hours)</li><li>• Introductory Sociology or Anthropology course (3 hours)</li></ul>

## Science

- Three courses in Biological Science (with at least one laboratory course).\*
- Three courses in a combination of Physics and Chemistry (with at least one laboratory course).\*
- Two courses in Earth/Space Sciences\*

\*See approved list below:

- | <i>Biology</i>   | <i>Chemistry</i>   | <i>Earth Science</i>   |
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| <ul style="list-style-type: none"> <li>• BIOL 240, Unity of Life</li> <li>• BIOL 242, Diversity of Life &amp;</li> <li>• BIOL 244, Laboratory</li> <li>• BIOL 257, Introduction to Microbiology &amp; BIOL 258, Laboratory</li> <li>• BIOL 260, Human Anatomy &amp; Physiology &amp; BIOL 262, Laboratory</li> <li>• BIOL 301, Introduction to Ecology &amp; BIOL 302, Laboratory</li> <li>• BIOL 329, Cellular and Molecular Biology</li> <li>• BIOL 330, Genetic and Molecular Biology &amp; BIOL 331, Laboratory</li> <li>• BIOL 357, General Microbiology &amp; BIOL 358, Laboratory</li> <li>• BIOL 465, Principles of Physiology</li> <li>• BIOL 571, Experimental Botany for Teachers</li> <li>• BIOL 591, Biology for Teachers I</li> <li>• BIOL 592, Biology for Teachers II</li> </ul> | <ul style="list-style-type: none"> <li>• CHEM 201, General Chemistry I &amp; CHEM 207 &amp; CHEM 208, Laboratories</li> <li>• CHEM 202, General Chemistry II &amp; CHEM 209, Laboratory</li> <li>• CHEM 341, Organic Chemistry I &amp; CHEM 343, Laboratory</li> <li>• CHEM 342, Organic Chemistry II &amp; CHEM 344, Laboratory</li> <li>• CHEM 591, Chemistry for Teachers I</li> <li>• CHEM 592, Chemistry for Teachers II</li> </ul>   | <ul style="list-style-type: none"> <li>• GEOS 200, The Global Environment</li> <li>• GEOS 201, Physical Geology &amp; GEOS 203, Laboratory</li> <li>• GEOS/PHYS 220, Contemporary Issues in Meteorology</li> <li>• GEOS 301, Geology for Scientists and Engineers</li> <li>• GEOS 305, Energy and Mineral Resources</li> <li>• GEOS 360, Global Environment Change</li> <li>• GEOS 363, Climatology</li> <li>• GEOS 365, Biogeography</li> <li>• GEOS 367, Geomorphology</li> <li>• GEOS 370, Environmental Geochemistry</li> <li>• GEOS 510/610, Earth &amp; Space Science for Teachers</li> <li>• PHYS 107, Elementary Astronomy &amp; PHYS 108, Laboratory</li> <li>• PHYS 307, Introductory Astrophysics &amp; PHYS 308, Laboratory</li> <li>• PHYS 315, Energy and Environment</li> </ul> |
|  | <i>Physics</i>   |  |
|  | <ul style="list-style-type: none"> <li>• PHYS 111, Elements of Physics</li> <li>• PHYS 121, Great Ideas in Physics &amp; PHYS 122, Laboratory</li> <li>• PHYS 221, Fundamentals of Physics I &amp; PHYS 223, Laboratory</li> <li>• PHYS 222, Fundamentals of Physics II &amp; PHYS 224, Laboratory</li> <li>• PHYS 293, Introductory Mechanics, Heat &amp; Sound &amp; PHYS 295, Laboratory</li> <li>• PHYS 299, Introductory Electricity, Magnetism and Light &amp; PHYS 296, Laboratory</li> </ul> |  |