MASC - Integrated Math & Sci

Courses

MASC 351 Problem Solving in Mathematics
Credits 3. 3 Lecture Hours.
Problem solving strategies in math and science; evaluate conjectures and arguments; writing and collaborating on problem solutions; posing problems and conjectures; constructing knowledge from data; developing relationships from empirical evidence; connecting mathematics concepts; readings, discussions, and analyses will model and illustrate mathematics problems solving and proofs.
Prerequisites: 6 hours of mathematics.

MASC 371 Inquiries in Life and Earth Sciences
Credits 3. 3 Lecture Hours.
Integration and connections among topics in the life and earth sciences--diversity, natural selection, ecosystem development, earth's features, and weather systems; inquiry emphasizing experimental design, data analysis and collection; use of models in the life and earth sciences.
Prerequisites: BIOL 111 or BIOL 113 and BIOL 123, CHEM 106 and CHEM 116, GEOL 101 or GEOG 203, ASTR 101 and ASTR 102, and PHYS 205; junior or senior classification; admission to teacher certification.

MASC 450 Integrated Mathematics
Credits 3. 3 Lecture Hours.
Integration and connections among topics and ideas in mathematics and other disciplines; connections between algebra and geometry and statistics and probability; focus for integration with authentic problems requiring various branches of mathematics.
Prerequisites: MASC 351; admission to teacher education; junior classification.

MASC 475 Inquiries in Physical Science
Credits 3. 3 Lecture Hours.
Integration and connections among topics in physical sciences--matter, energy, force, motion, scientific cycles; focuses on inquiry emphasizing experimental design, data analysis and collection, and use of models in the physical sciences.
Prerequisites: BIOL 111, BIOL 113 and BIOL 123, CHEM 106 and CHEM 116, GEOL 101 or GEOG 203, ASTR 101 and ASTR 102, and PHYS 205; junior or senior classification; admission to teacher certification.