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MASC - INTEGRATED MATH & SCI (MASC)

MASC 320 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: Junior or senior classification.

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. Prerequisite: Junior or senior classification.

MASC 420 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: Junior or senior classification.

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. Prerequisite: Admission to teacher education; junior or senior classification.

MASC 489 Special Topics in...

Credits 0 to 4. 0 to 4 Other Hours. Study of selected topics in an identified area of integrated math and science. May be repeated for credit.

Prerequisites: Junior or senior classification; approval of department head.