

Mathematics and Physics

FACULTY: R. Bugayong, J. Rasmussen*, K. Shepard+.

Courses

MATHEMATICS

MATH 125. QUANTITATIVE REASONING. (4) Designed to develop the skills necessary to function in an increasingly mathematical world. Includes quantitative literacy, logic and reasoning, an introduction to statistics and probability, fundamentals of algebra and functions, problem solving strategies, and personal finances. Three class hours and one laboratory per week. No prerequisite.

MATH 131. COLLEGE ALGEBRA AND TRIGONOMETRY. (4) The system of real numbers, functions, trigonometric, exponential and logarithmic functions, equations, systems of equations, permutations, combinations, the binomial theorem and probability. Prerequisite: One and one-half years of high school algebra and one year of high school plane geometry.

MATH 135. CALCULUS. (4) Review of functions, limits and rates of change, derivatives, and applications of derivatives. Prerequisite: Math 131.

MATH 226. MATHEMATICS FOR ELEMENTARY TEACHERS. (3) Content mathematics course for elementary-level teacher candidates that focuses on set theory, arithmetic, number theory, geometry, probability, data analysis, measurement, and basic algebra. No prerequisite.

MATH 228. MATHEMATICS CONTENT P-12 FOR THE SPECIAL EDUCATOR. (3) An examination of the pedagogical mathematics content for P-12 students which provides a foundation for understanding mathematics curricula in the pre-kindergarten through twelfth grade. Current issues in mathematics education, NCTM standards, CEC standards and the Illinois Learning Standards are explored. Prerequisite: Special Education 223.

PHYSICAL SCIENCE

PHSC 301. PHYSICAL SCIENCE. (4) Fundamental concepts selected from the areas of physics, astronomy, geology, and chemistry. Laboratory course. Offered every fall.

PHYSICS

PHYS 201, 202. GENERAL PHYSICS. (4, 4) For biology and related majors. A noncalculus survey of classical and modern physics. First semester: mechanics, heat and sound. Second

semester: electricity, magnetism, light, and a brief summary of modern physics. Laboratory course. Prerequisite: Mathematics 131 or the equivalent. 201 is a prerequisite for 202 or permission of the instructor.