MATH 2420 (MATH 2420) Differential Equations with Applications (4 semester credit hours) Ordinary differential equations, including linear equations, systems of equations, equations with variable coefficients, existence and uniqueness of solutions, series solutions, singular points, transform methods, and boundary value problems; application of differential equations to real-world problems. Three lecture hours and two discussion hours a week; problem section required with MATH 2420, and will also be registered for exam section. Not all MATH/STAT courses may be counted toward various degree plans. Prerequisites: A grade of at least a C- in either MATH 2415 or in MATH 2419 or equivalent and a grade of at least a C- in MATH 2418 or equivalent. (3-2) S