ENGR 3300 Advanced Engineering Mathematics (3 semester hours) Survey of advanced mathematics topics needed in the study of engineering. Topics include review of complex numbers, multivariate calculus and analytic geometry. Study of polar, cylindrical, and spherical coordinates, vector differential calculus, vector integral calculus, and vector integral theorems. Examples are provided from electromagnetic, fluid mechanics, physics and geometry. Prerequisite: MATH 2415 or MATH 2419. (3-0) S (2016-02-05 21:07:37)