ENGR3300 - Advanced Engineering Mathematics

ENGR 3300 Advanced Engineering Mathematics (3 semester credit hours) Survey of advanced mathematics topics needed in the study of engineering. Topics include use of complex numbers, properties of complex-valued functions, scalar and vector fields, introduction to partial differential equations, and Fourier series. Examples are provided from electromagnetics, fluid mechanics, thermodynamics, and engineered systems. This course includes a required laboratory. Prerequisites: (MATH 2415 or MATH 2419 or equivalent) and ENGR 2300. Prerequisite or Corequisite: MATH 2420. (3-1) S