## **Department of Mathematics**

Faculty of Science 3(3/3-0/0)

MATH (206)761METHODS OF APPLIED MATHEMATICS IPrerequisiteconsent of the instructor

## **Course Descriptions :**

Special functions: Legendre, Bessel, Hermite, Laguerre, hypergeometric, and confluent hypergeometric functions. Partial differential equations of theoretical physics, seperation of variables. Ordinary differential equations, non-homogeneous: Green's function. Complex variables, analytic functions, contour integrals, calculus of residues and applications. Introduction to dispersion relations.