

32052 Mathematical Methods in the Physical Sciences II (4)

Knowledge

The students should develop the additional mathematics background for upper-division courses in the physical sciences.

Comprehension

Should understand the notions of vector analysis, Fourier series and transforms ordinary differential equations and partial differential equations.

Application

The main and most important application is to solve many different problems related to the subject.

Analysis

Should be able to apply Fourier analysis to solve ordinary and partial differential equations.

Synthesis

N/A

Evaluation

Should complete homeworks, pass midterm tests and a final exam.

Class Activities

To solve problems in class and discuss theorems.

Out of class Activities

To submit homework assignments.