MATH 445: The big picture

From the catalog:

MATH 445 Mathematics of Physics and Engineering II (4, FaSp)
Vector field theory; theorems of Gauss, Green, and Stokes; Fourier series and integrals; complex variables; linear partial differential equations; series solutions of ordinary differential equations.
Prerequisite: MATH 245.

Note:

Vector field theory: MATH 226 (next step: **MATH 434 and 435**)

Complex variables: **MATH 475 (also 520)**

Ordinary differential equations: MATH 225, 245, and **465**)

Series: MATH 126

We will ***also*** do some numerical methods.

Numerical methods: MATH **458 (also 501, 502ab, 504ab)**

BUT

No special course on PDEs or Fourier analysis (in our math dept.)

Here, your only choice is **MATH 490 (**read a book by yourself**)**

OBJECTIVE: to convince you to take more math classes.