

Topics in Applied Mathematics II (partial differential equations)

Classes: MWF 3:00–3:50, Blocker 164

Instructor: S. A. Fulling
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If I am not in my office, you can leave a note in my mailbox (in the room opposite the math department office, 6th floor of Blocker) or in the plastic pouch beside my office door.

Temporary office hours: MF 11:00–12:00, R 3:00–3:50.

Permanent office hours will be announced later.

Prerequisite: M. 308 or 451 (differential equations). (M. 311 or other linear algebra will help, but is not required.)

Textbooks:

1. *required:* R. Haberman, *Elementary Applied Partial Differential Equations with Fourier Series and Boundary Value Problems*, 3rd edition, Prentice–Hall, 1999.
2. *strongly recommended:* S. A. Fulling, Math 312 lecture notes, for sale at Copy Corner (1404 Texas Ave. S.), Packet #162. There is a separate booklet of old tests, Packet #163, with a disclaimer that they do not precisely match the present syllabus.
3. *optional, cheap:* Evans Harrell and James Herod, *Linear Methods of Applied Mathematics*, <http://www.mathphysics.com/pde/> . (Read the copyright notice!)
4. *optional, cheap:* M. R. Spiegel (Schaum’s Outline Series), *Fourier Analysis*.
5. *optional, cheap:* G. P. Tolstov, *Fourier Series*, Dover.

Grading system: Hour tests:	100 × 3 = 300
Final exam:	200
Homework and class participation:	<u>200</u>
Total	<u>700</u>

The “curve” will be at least as generous as the “standard” scale [i.e., 90% (= 630 pts) will guarantee an **A**, etc.].

Dates of hour tests: Sept. 22, Oct. 20, Nov. 17 (Fridays)

Final exam: Tuesday, Dec. 12, 10:30–12:30