

Course: **Math 553—Mathematical Models**  
Time: Fall 2007, 4:00-5:15 TTh, JB 335  
Instructor: Tom DeLillo, JB 348, 978-3974(office), 264-7806(home)  
Email: delillo@math.wichita.edu  
Web page: <http://www.math.wichita.edu/~delillo/> (some course info. here)  
Office hours: 1:30-2:30 MF, or by appointment

Text: D. F. Parker, *Fields, Flows and Waves: An Introduction to Continuum Models*, Springer Undergraduate Mathematics Series, London, 2003.

Syllabus (approximate)

| Chapters                                      | weeks |
|---|-------|
| 1 to 4: Heat flow, potentials, Laplace eq.    | 5     |
| 5 to 7: Strings, fluids, elastic deformations | 6     |
| 8 to 10: Selected topics and presentations    | 4     |

Grading (approximate)

|                                     |                  |
|-------------------------------------|------------------|
| Homework                            | 100 points       |
| Exam I (Chapters 1 to 4)            | 100              |
| Exam II (Chapters 5 to 7)           | 100              |
| Final exam/Project and presentation | <u>200</u>       |
|                                     | 500 points total |

*Grading scale:* I do not have a fixed grade scale. I will assign grades in a reasonable manner and inform you of how you are doing relative to the rest of the class after each exam.

*Attendance policy, etc.:* Regular attendance is mandatory. I will pass around an attendance sheet during each class. Good attendance will count in your favor, if your grade is borderline. If you fall behind or have other problems with the class, please contact me *as soon as possible*. Turning in homework late, missing class, or missing exams for any reason is highly discouraged. I will try to be helpful if you have special difficulties.

*Important dates:*

Labor Day: 9/3.  
Fall break: 10/18–10/21.  
Thanksgiving: 11/21–11/25.  
Last day to drop with a “W”: 10/29.  
Last day of classes: 12/6.  
Final exam: Thursday 12/13, 5:40–7:30 PM, in classroom.