University of Pennsylvania
Calculus IV, Math 241-920 Syllabus

Instructor: Maxim Gilula
Email: mgilula@math.upenn.edu
Office: DRLB **4C1**
Office Hours: *Mondays* and *Wednesdays* after class and by appointment.

Course time: 1:00 PM- 3:10 PM,   Monday through Thursday
Course location: DRLB **4C6**
Course textbook: *Applied Partial Differential Equations with Fourier Series and Boundary Value Problems, 5th edition.* Richard Haberman, ISBN 9780321797056.

Course description: We will be covering most of chapters 1-8 and 10 from the course textbook. The goal of this course is to develop some basic problem solving skills in PDE and to possibly recognize the various mathematical techniques used to solve such problems. Techniques from up to Math 114 and some of Math 240 will be used; there won't be a review in the beginning of the course for this material, so if at any point anyone feels like we are missing some material as a group, please let me know. More importantly, if anyone feels like they are missing some material as an individual, don't be shy to ask and I will clarify as much as possible (…cliché: if you have a question someone else probably does too…). I will be sticking very close to the official course syllabus, found here: https://www.math.upenn.edu/ugrad/calc/m241/syllabi/math241syllabus.pdf

Grading: 40% Homework (one homework per week, due on *Tuesdays*)
              60% Quizzes, Midterms and Final

Schedule for exams: Quiz   July 9, 2015 worth **10%**
                               Midterm   July 23, 2015 worth **20%**
                               Final   August 6, 2015 worth **30%**

Calculus help: In addition to my office hours, there are help sessions Monday through Thursday 9am-1pm run by Soum Nayak in 4E9. Since our class does not conflict with these times, I hope everyone is able to make good use of the help sessions as needed.

Tentative schedule: Below is a tentative schedule that I will probably adjust depending on how the course goes. We need some kind of nonempty grades before the drop deadline, July 10, hence the early quiz and homework on chapter 1.

	Important dates	**Material covered**
July 2		Course details Chapter 1
Week 1 (July 6-9)	*July 7:* Homework 1 due *July 9:* Quiz on Chapter 1 and 2.3	Chapter 1 Chapter 2
Week 2 (July 13-16)	*July 14:* Homework 2 due	Chapter 2 3.2, 3.3 and 3.6 Chapter 4
Week 3 (July 20-23)	*July 21:* Homework 3 due *July 23:* Midterm on Chapters 2-4.	Chapter 4 5.3 and 5.4 Chapter 10
Week 4 (July 27-30)	*July 28:* Homework 4 due	Chapter 7: sections 2, 3, 4, 7, 9, and 10.
Week 5 (August 3-6)	*August 4:* Homework 5 due *August 6:* Final exam on Chapters 5, 7, 8, 10.	Catch up 8.2, 8.3 and 8.6 Review 6.2, 6.3 and 6.5 (time permitting)