APM502. Differential Equations II, SLN 15282
Syllabus, Spring 2014

Texts:

Instructor: Wenbo Tang  Office: PSA 837 (x5-1476)  Email: Wenbo.Tang@asu.edu
Meeting Schedule: T Th 9:00AM-10:15AM, PSA 109
Office hours: T Th 2:00PM-3:30PM and by appointment

TA: Jeff Springer  Office: GWC 651  Email: Daryl.Springer@asu.edu
Office hours: ECA 221, Tu 8:00-11:00PM and by appointment

Topics
- Methods of Characteristics: first order quasilinear equations, first order linear systems, second order linear equations, in particular wave equations.
- Classification of second order partial differential equations.
- Fourier Series, including convergence theorems, Fourier transforms.
- Harmonic Functions, Maximum Principles for the potential and heat equations.

Grading Policy
Biweekly (total of 6) homework sets are assigned every other Tuesday since week 2 and will be collected in class 2 weeks from the assignment date. Each set consists 4-5 problems. Study groups with maximum member of 3 are encouraged but not required. Each student must turn in his/her own copy of homework. Late homework is accepted up to 1 week from due date and is subject to 40% penalty.

Label your homework with your name and the sections you are submitting. Staple all pages together. Work neatly because illegible papers cannot be graded. Students will be asked to present their homework solutions in class.

MidTerm: Mar. 6th (tentative)
Last day of instruction: May 1st
Final: May 8th, 7:30AM-9:20AM
Exams are open books/notes
Make-up exams (for mid-term) will be arranged only for a justified and certified reason. Make-up exams will not be given unless the student notifies the instructor prior to the exam. There is no excuse from the final exam and no make-up final will be given because of non-refundable airline tickets, work schedules, weddings etc.

Grades are given based upon Homework: (lowest dropped) 40%, mid-term: 20% and the final: 40%.
Letter grade breakdown: A: 80–100% B: 70–79% C: 60–69% D: 50–59% E: 0–49%

The grade of incomplete (I) can be assigned only when a student who is otherwise doing
acceptable work cannot complete the course because of illness or other conditions beyond the students control. Again documentation will be required before an incomplete can be considered.

Course attendance will be taken for granted. The syllabus, homework assignments, exam dates may be changed by in-class announcements. Anything that is missed because a student was not in class at time of the announcement falls into the students responsibility.

ACADEMIC DISHONESTY!
In the “Student Academic Integrity Policy” manual, ASU defines “Plagiarism’ [as] using another’s words, ideas, materials or work without properly acknowledging and documenting the source. Students are responsible for knowing the rules governing the use of another’s work or materials and for acknowledging and documenting the source appropriately.” You can find this definition at:

http://provost.asu.edu/academicintegrity/policy

Academic dishonesty, including inappropriate collaboration, will not be tolerated. There are severe sanctions for cheating, plagiarizing and any other form of dishonesty.