Math – 52300, Section 21194

Course Syllabus

Fall 2017

General Information

Class Time: TR 9:00 – 10:15 am, SL 137
Instructor: Vitaly Tarasov
Office: LD 224 G
E-mail: vtarasov@math.iupui.edu
Phone: 274-8144
Use e-mail whenever possible.

Office Hours: By appointment
Textbook: E. C. Zachmanoglou and Dale W. Thoe
Introduction to Partial Differential Equations with Applications
Calculator: A scientific calculator.

Midterm Exam: October 12, 9:00 – 10:15 am
Final Exam: December 12, 8:00 am – 10:00 pm

Important Dates:
August 27 — Last day to withdraw with no paperwork required.
October 22 — Last day to withdraw online with only an advisor
approval required and an automatic grade of W. In-person trans-
actions must be processed by 5:00 pm on October 20.

Other important registration dates can be found at:
http://registrar.iupui.edu/enrollment/4178/cal4178.html

Prerequisites: Math–26100 or 51000, Math–26600

Additional information can be found on the Math Home Page
http://www.math.iupui.edu/
and on the Course Home Page
http://www.math.iupui.edu/~vt/523/

Important Note

If you need help — ASK! Ask questions in class, though remember that time in class is
limited and it is mainly for new material. ASK during office hours — make an appointment
and ASK. Try to formulate your questions clearly. A right question is a half of the answer.
Do not say: “I understand nothing.” It is not productive. Try to figure out what you do
not understand. Try to catch a line between what you understand and what you do not. I
cannot help you if you do not work to ask right questions.
**Course Description**

The objective of the course is to give an introduction to the basic methods and results of the theory of partial differential equations and its application to problems in physics and engineering.

**Attendance**

It is very important for doing well to attend every lecture. Though attendance is not mandatory, a student absent from the class bears full responsibility for all the material covered in class. I will assume that you already understand the material when you do not attend. When you do miss a class, contact a classmate to learn what was discussed.

**Reading and Homework**

I strongly recommend you to take a look into a couple of new sections in the textbook before each lecture. It will be very helpful for you in class if you acquaint yourself in advance with the subject to be discussed. Recognizing familiar words makes it easier for you to follow a new material.

Homework is especially important in any math course. You should try to do every exercise problem in the textbook. Although homework will not be collected and graded, well-done homework is a key to well-done quizzes and exams.

I encourage you to talk to your fellow students about homework problems you find difficult, preferably only after you have found them difficult. Talking to others about mathematics is a very effective way to learn mathematics. However, after discussions write out your solutions on your own to be sure that you understand the subject.

**Quizzes**

There will be weekly home-taken quizzes. They will be handed out in class and posted at [http://www.math.iupui.edu/~vt/523/] on Aug. 29, Sep. 5, Sep. 12, Sep. 19, Sep. 26, Oct. 3, Oct. 24, Oct. 31, Nov. 7, Nov. 14, Nov. 21, and Nov. 30. Quizzes are due in a week. Each quiz is worth 20 points.

**Midterm Exam**

There will be a midterm exam on October 12, covering all the material discussed from the beginning of the class. The exam is worth 90 points. A makeup for the missed exam will be given only for a serious reason and a written, verifiable excuse for the missed exam will be required. You should ask for a makeup on October 19 the latest, and the makeup must be taken before the class on October 24. **A makeup is not easier than the original.**

**Final Exam**

There will be a comprehensive final exam on December 12 at 8:00 am –10:00 pm. The final exam is worth 120 points.

**Reminder**

To receive credit for quiz and exam problems you **must** show your work. Answers without solutions give you no credit. Please, write solutions in a well organized manner and indicate answers clearly. Be careful — if you get a right answer, but transform it further in a wrong way, it will be considered as a mistake.
Grading

Students are supposed to accumulate points throughout the course. The points for quizzes count with the factor $\frac{1}{2}$ — there are $120 = \frac{240}{2}$ points from quizzes. There are 90 points from the midterm exam, and 120 points from the final exam. Totally, there are 330 points.

Letter grades will be assigned at the end of the course according to the accumulated points. No letter grade D will be assigned. Numerical scores will be translated into letter grades approximately according to the scale:

\[
70.0\% \leq x < 75.0\% \leq 80.0\% \leq < 85.0\% \leq < 90.0\% \leq < 94.0\% \leq x \leq 100\% \\
B^{-} \quad B \quad B^{+} \quad A^{-} \quad A \quad A^{+}
\]
\[
50.0\% \leq x < 57.0\% \leq < 64.0\% \leq < 70.0\% \\
C^{-} \quad C \quad C^{+}
\]

However, there may be minor deviations from this scale in both directions.

Additional Information

Students who need to make adjustments to their schedules should do so as early as possible in the semester. During the first week of the semester until August 27 by 5 pm, a student can drop and add a course online with no signatures or paperwork required, and no late add fees assessed.

After 5 pm on August 27, when dropping or adding a course, the student needs the permission and signature of his/her advisor. In addition, when adding a course, the student also needs the signature of the instructor.

A complete list of important registration dates for the Fall 2017 can be found at: http://registrar.iupui.edu/enrollment/4178/cal4178.html

The instructor reserves the right to adjust this syllabus if necessary.