

**Math 9312, Summer 2013**  
**Topics in PDEs**  
**Syllabus**

**Instructors:** Rasul Shafikov, MC 112, [shafikov@uwo.ca](mailto:shafikov@uwo.ca) (emails will be answered within 48 hours).  
Office hours: TBA

**Textbook:** *An introduction to Partial Differential Equations* by M. Renardy and R. Rogers, on 2 hour reserve in the library.

**Course web page:** <http://www.math.uwo.ca/~shafikov/9312/>

Visit this page for up to date information on the course.

**Course Description:** Course meets TuTh 9:30 AM - 11:30 AM in MC 108.

Partial differential equations are fundamental to the modeling of natural phenomena. The subject is too vast to try to cover it in one course. So the modest goal of this course is to introduce distributions and explain how they serve as solutions of basic PDE.

**Prerequisites:** real analysis, basic complex analysis, some basic knowledge of functional analysis and Lebesgue integration.

**Homework:** Homework will be assigned on a regular basis and will include routine exercises as well as some challenging problems.

**Presentation:** There will be short in-class presentations at the end of the course.

**Senate Regulations on Scholastic Offences** Please note the following points, which are required to be stated in this outline by the Senate regulations.

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following Web site:

<http://www.uwo.ca/univsec/handbook/>

Specifically, the following document outlines scholastic discipline for graduate students:

[http://www.uwo.ca/univsec/handbook/appeals/scholastic\\_discipline\\_grad.pdf](http://www.uwo.ca/univsec/handbook/appeals/scholastic_discipline_grad.pdf)

**Evaluation:** Homework = 50%, Presentation = 50%