

Winter 2009  
**COURSE SYLLABUS - MATH 246B**  
**PARTIAL DIFFERENTIAL EQUATIONS**  
TR 14:00 – 15:15, SH 6635

PROFESSOR	Thomas Sideris, South Hall 6506 Office Hours: Tuesday 15:30-17:00 Office Phone: 893-2179 <a href="http://www.math.ucsb.edu/~sideris">http://www.math.ucsb.edu/~sideris</a>
TEXTS	<i>Partial Differential Equations, 4th ed.</i> , by Fritz John. Springer, 1991.  <i>Introduction to Partial Differential Equations, 2nd ed.</i> , by Gerald B. Folland. Princeton, 1995.
COURSE DESCRIPTION	This course is the first of three quarters on the theory of partial differential equations. During this quarter, we will cover the following topics: the classical equations of mathematical physics, Sobolev spaces, elliptic regularity, etc.
PREREQUISITES	The prerequisite is Math 246A.
GRADING	Homework        34% Midterm Exam   33% Final Exam      33%
EXAMS	Midterm        To be announced. Final Exam     Wednesday, March 18, 16:00-19:00

FURTHER REFERENCES

- Evans, L.C. *Partial differential equations*. AMS, 1991.
- McOwen, R. *Partial differential equations, methods and applications*. Prentice-Hall, 1996.
- Strauss, W.A. *Partial differential equations, an introduction*. Wiley, 1992.
- Rudin, W.A. *Principles of mathematical analysis, 3rd ed.* McGraw-Hill, 1976.