Math 882: Advanced Numerical Differential Equations
MW 11:00 −12:15 p.m.   454 Snow

Instructor: Xuemin Tu
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- **Office Hour** 10:00 - 11:00 a.m.MW,   or by appointment.

- **Textbook (Optional)**   *Numerical Solution Of Partial Differential Equations*
  By Johnson Claes   Dover Publications, Inc, 2009

- **Prerequisite** MATH 781, 782, 783, plus some knowledge of computer languages.

- **Credits**   3 hours

- **Description** Finite element methods for elliptic and parabolic partial differential equations. Direct and iterative methods for the solution of systems of linear equations arising from finite element discretization. Parallel computing.

- **Homework**   Due on Monday.
  No late homework will be accepted.

- **Projects**   A course project is required.

- **Exams**   Exam (take home) + Final presentation

- **Grading Policy**

Homework & Attendence	–	20%
Exam	–	30%
Project	–	50%

  ∗ This syllabus is subject to change at the discretion of the instructor.