

MATH 361: Advanced Calculus II

Spring 2018

Instructor: Zhenfu Wang

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The Course

This course is a continuation of Math 360, Advanced Calculus I. Typically in Advanced Calculus II, we will cover the multivariable calculus, including differential mappings, the inverse and implicit function theorems, integration in higher dimensional space, fundamental theorem of calculus, Lebesgue measure, Fubini's theorem, change of variables formula and Fourier analysis.

Text: *Elementary Classical Analysis, 2nd edition, by J. E. Marsden and M. J. Hoffman.*

We will use canvas to upload grades, post homework, make announcements, and share course notes.

["https://canvas.upenn.edu/"](https://canvas.upenn.edu/)

Students can discuss problems with each other or seek tips from books, articles or online resources. But it is wrong to simply copy from any source. See [Penn Office of Student Conduct](#).

Students with disabilities shall contact [SDS](#) directly.

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- The class meets from 10:30 to 12:00 on Tuesdays and Thursdays. Students should also attend an evening lab session at Monday or Wednesday 6:30pm -8:30pm.
 - My office hour will be Tuesdays and Thursdays 4:15 pm-5:15 pm or by appointment via email if you can not come during this time.
 - My office in the Math Department is 4N63 DRL, tel. (215) 898-7844.
 - My email: zwang423@math.upenn.edu. Send e-mail if you have a question or need to contact me.
 - The TA is Huy Mai. Office Hour: TBA at 3N2D in DRL. His email: huymai@math.upenn.edu
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Syllabus

We will cover chapter 6-10 in the textbook. See [PDE](#).

Grading Policy

Your grade for the course will be determined based on the following factors:

The 1st Midterm Exam : 25%

The 2nd Midterm Exam : 25%

Final Exam: 30%
Homework and Lab: 20%

Exams

The 1st Midterm : In class, Feb. 13.

The 2nd Midterm: In class, Mar. 27.

Final Exam : TBA

Homework

Homework will be assigned weakly and due at the lecture the following Thursday. Late homework will not be accepted but the lowest homework score will be dropped.

Important dates

Feb. 13, First Midterm Exam

Feb. 16, Drop Period ends.

Mar. 3-11, No Class (Spring break).

Mar. 27, Second Midterm exam.

Mar. 30, Last day to withdraw from a course.

Apr. 24, Last day of classes of this course.

Apr. 26-27, Reading days.

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