

## Math 240A

### Course Outline and Information

Fall 2015

**Lecture:** TR 12:30 - 1:45pm; GIRV 1119

**Text:** John Lee, Introduction to smooth manifolds. Graduate Texts in Mathematics, Vol. 218, Springer, second edition, 2013

The book is available online since UCSB has a subscription to Springer's GTM series

<http://link.springer.com/book/10.1007%2F978-1-4419-9982-5>

Check author's webpage <http://www.math.washington.edu/~lee/Books/ISM/> for corrections.

**References:** Thierry Aubin, A course in differential geometry. Graduate Studies in Mathematics, Vol. 27, AMS, 2001

W. M. Boothby, An introduction to differentiable manifolds and Riemannian geometry. Academic Press, Revised 2nd edition, 2003.

**Material to be covered:** Chapters 1-5, 7-10

**Instructor:** Guofang Wei, South Hall 6503

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**Office hours:** T 2-3:30pm, R 9:00 - 10:30 am or by appointment

**Homework:** There will be about six homework assignments, which will be posted on Gauchospace.

**Grades:** 25% homework; 35% midterm (take home); 40% final (in class)

**Final:** December 7, Monday, 12:00noon - 3:00pm