Math 205C
Spring 2016
R. Schultz

GENERAL REMARKS

This is the final course in the entry level graduate geometry/topology sequence. The main text for the course is the following book:

> **John M. Lee.** *Introduction to Smooth Manifolds* (Second Edition), *Springer-Verlag, New York etc.*, 2012. ISBN-10: 1441999817. ISBN-13: 978-1441999818.

A substantial amount of additional course material will be posted online to a course directory

`http://math.ucr.edu/~res/math205C-2016`

including a schedule and two sets of lecture notes for the course; one will correspond to the lectures, and another, more extensive set, corresponds to the notes for an older version of the course.

Contact information. My office is Surge 221, and it is around the corner from the Department's administrative front desk (Surge 202). Office hours will be announced. My office telephone number is 951-827-6459 (as usual, suppress the area code from inside the 951 region, and also replace the 827 by a 2 if calling from an extension at UCR). Another highly recommended option is electronic mail; my full address is `schultz@math.ucr.edu`, and `reinhard.schultz@ucr.edu` is another valid address. Use of electronic mail is often easier than trying to play telephone tag. **IMPORTANT:** The default filters for electronic mail on the Department network are not very restrictive and sometimes there is an enormous amount of garbage in my electronic mailbox. Normally I have electronic mail forwarded to a web-based mailbox which has stronger spam filters; the latter might delete messages with subject lines like "urgent request" or "please help" which are frequently abused by spammers, and therefore I **strongly recommend** that you include something like **Math 205C** in the subject heading so that your message does not get inadvertently deleted without being read. Also, since the authors of junk messages often use only capital letters in their subject headings, this should be avoided as well.

Grading policy: There will be one in-class midterm examination, and thee will be a final examination during the eleventh week. The latter will begin an hour later than the scheduled time (9:00 AM), and it will be about 50 per cent longer than the midterm examination. There may also be a take-home examination at the end of the quarter. Further information, including the percentage value of the various examinations, will be posted to `update` files in the course directory.

Although homework problems will not be collected or graded, students are responsible for knowing how to do all the unstarred exercises listed on the course homework file; the starred exercises are generally more challenging, and trying them is recommended as a way of testing one's understanding of the course material. Some problems from the homework are likely to appear on the examinations.

No books, notes or electronic devices (including cell phones) can be used during examinations.

Course handouts and notes: All printed handouts for the course will be available on the World Wide Web from the previously mentioned site (note the year!!):

`http://www.math.ucr.edu/~res/math205C-2016`

The contents of this directory include a copy of this handout, the course schedule mentioned previously and various files containing supplementary material. All files except a few ordinary text files are `pdf` files which can be opened, downloaded, and they can be read or printed with the free Acrobat readers that are available or easily downloadable on most if not all electronic communications devices (desktop or laptop computers, tablets or smartphones).

There are also directories containing background material from some fairly closely related courses in the directory

http://math.ucr.edu/∼res

including directories for older versions of the 205 courses.

I have tried to eliminate typographical and other errors in the online files, but I probably have not found them all. If something looks incorrect or unclear, it may have been already fixed, so the first thing to do is check the online course directory to see if the current online versions of the files have been corrected or clarified. If not, please let me know so that changes can be made as needed.

IMPORTANT. (1) *Please contact me immediately if you have problems viewing or printing out any of these files.*

(2) *These files are only intended for classroom purposes and are not meant for widespread public circulation.* In some cases further distribution may be a violation of copyright laws or the terms of use for material in the files.

Further comments. Student questions during primary class sessions are encouraged. Please do not hesitate to ask questions, especially if you do not understand something or if something in the lecture seems wrong — even if everyone else seems to understand. Questions on homework or review are generally best answered at the beginning of class and should be asked at that time. In general such questions are encouraged, but in some cases it might be necessary to limit such question periods or to post the answers online after class.

I shall attempt to answer electronic messages regarding the course in a reasonably timely manner, especially during regular working hours, and in some instances outside of such hours (but there are no guarantees). Complete answers to more complicated questions may require additional time.

Disability issues: Students who have been certified as eligible for academic adjustments under existing laws should contact the primary instructor within the next week with the necessary supporting materials. Further information on campus services for students with disabilities is available at the following sites:

http://www.specialservices.ucr.edu/swd/default.html

http://www.specialservices.ucr.edu/swd/aboutus.html