## Advanced Calculus II

## MATH 4153/5053

Time and Place: MWF 10:30-11:20 a.m. in MSCS 509
Professor: Igor E. Pritsker
Office: MSCS 524
Office Hours: MWF 9:30-10:30 a.m.
Office Phone: 744-8220
E-mail:igor@math.okstate.edu
Web: http://www.math.okstate.edu/~igor/
Textbook: An Introduction to Analysis, by W. R. Wade, Pearson Prentice Hall, 4th Ed.

Grading: We shall have the Midterm and the Final Exams. The break up of your course grade is as follows:

| Midterm Exam | $40 \%$ |
| :--- | :--- |
| Homework | $20 \%$ |
| Final Exam | $40 \%$ |

Your grade will be determined according to the scale

| A | $90-100$ |
| :--- | :--- |
| B | $80-89$ |
| C | $70-79$ |
| D | $60-69$ |
| F | 59 and lower |

Note that the above numbers are percentages of the highest possible score in the course.
Homework will be assigned by section (see the schedule), and will be collected one week after we finish a section. Please write down complete and rigorous solutions to all problems. You should prepare them ready for submission in separate sets. Remember that homework is an individual assignment, i.e., it must be done by you personally. It is allowed to discuss problems with other people on the preliminary stage, but submitted solutions must be yours and only yours.

Attendance is especially important in this class, hence mandatory. While it is not a part of your grade, regular attendance and active class participation will greatly simplify learning new material and developing your proof skills.

Missed work policy: A student shall be offered reasonable accommodation in the event that he or she misses a major assessment activity for a valid and documented reason. Examples of such reasons for making up exams are serious illness, family death, etc. Contact me immediately if you need to arrange for a make-up, and provide appropriate documentation.

University Syllabus Attachment: Contains drop deadlines and procedures, as well as many other important dates and university policies.

# Tentative Schedule 

Chap 8 Chap 9 Chap 11 Midterm Exam Chap 12 Chap 13 Final Exam

## Detailed Schedule

| Wk | Date | Sec | Page | Topic | Homework |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | M, Jan 9 | 8.1 | 267 | Algebraic structure | 1, 3, 4, 5, 8 |
|  | W, Jan 11 | 8.2 | 279 | Planes and linear transformations | 2, 4, 6, 11 |
|  | F, Jan 13 | 8.3 | 288 | Topology of $\mathrm{R} \wedge \mathrm{n}$ | 1,2, 3, 5 |
| 2 | M, Jan 16 | Martin Luther King Jr. Day |  |  |  |
|  | W, Jan 18 | 8.3 | 288 | Topology of $\mathrm{R} \wedge \mathrm{n}$ | 6, 7, 8, 9 |
|  | F, Jan 20 | 8.4 | 297 | Interior, closure, and boundary | 3, 5, 9, 10 |

