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ADVANCED CALCULUS 2

Advanced Calculus for Engineers and Physical Scientists 2

Time, Location, and Section Number

MWF PERIOD 4, LITTLE 127, Section 108B of MAA 5105 and Section 2363 of MAA 4103

Office Hours

Monday period 5, Wednesday period 6, and Friday period 5.

Description and Goals

The course is a continuation of MAA 4102 and MAA 5104. The primary goal of the course is to obtain a sound understanding of the basic mathematical concepts of calculus. A secondary goal is to improve the ability to reason carefully and creatively when dealing with mathematical material.

We will cover sections 5.4, 5.5, 6.1 – 6.5, 7.1 – 7.4, 8.1, and 8.2 of the text, as time permits. Topics include the Riemann integral, infinite series, and convergence of sequences of functions.

Text: Witold A. J. Kosmala, *A Friendly Introduction to Analysis*, second edition, Pearson Prentice Hall, Upper Saddle River, NJ 07458.

Homework Assignments

The assignments will be added here, as the course progresses. These assignments will not be turned in for a grade. Students are expected to do the assignments as part of the preparation for the exams and quizzes.

- Section 5.4, page 216 – 218, # 2 (part c), 20 (all parts).
- Section 5.5, page 225 – 227, # 1 (all parts), 11 (all parts), 14.

Exams, Quizzes, and Take-home problems sets

Exam dates, Quiz dates, and links to sample exams will be added here. Also, links to the take-home problems sets, and due dates for these problems will be added here.

The Midterm Exam will be given on Friday, February 27, in class.

The Final Exam will be given during the regular final exam period for this section, which is Wednesday, April 29, from 3:00PM to 5:00PM in the regular class room (Little 127).

Grades

Grades will be based on a midterm exam, a final exam, two quizzes and three take-home problems sets. The midterm exam and the final exam will each be worth 50 points. Each quiz and take-home problem set will be worth 20 points. So there are 200 possible points. The midterm exam will be given during the regular class period on Friday, February 27. The final exam will be given during the regular final exam period for this section, which is Wednesday, April 29, from 3:00PM to 5:00PM.

Grading Scale

A: 180-200 A-: 175-179 B+: 170-174 B: 160-169 B-: 155-159
 C+: 150-154 C: 140-149 C-: 135-139 D+: 130-134 D: 120-129

Course Policies

- **Closed-book policy:** No use of calculators, or books will be allowed during any in-class tests.
- **Policy related to make-up exams:** Written medical documentation is required for make-up exams.
- **Policy on class attendance:** Daily attendance is required as consistent with university policies that can be found in the online catalog at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.
- **University's honesty policy:** UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code". On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (<http://www.dso.ufl.edu/scor/process/student-conduct-honor-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor.
- **For students with disabilities:** Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.
- **Students' evaluations of the course:** Students are expected to provide feedback on the quality of instruction in this course based on 10 criteria. These evaluations are conducted online at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results>.
- **Additional Information and Links:**

Grades: Grading will be in accord with the UF policy stated at <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

Honor Code: "UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class."

Class Attendance: "Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>."

Accommodations for Students with Disabilities: "Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <https://www.dso.ufl.edu/drc/>) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor

when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester."

Online Evaluations: "Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>."

Contact information for the Counseling and Wellness Center:
<http://www.counseling.ufl.edu/cwc/Default.aspx>, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

