

MAT 5620 Analysis II

Course Information

Prof Wm C Bauldry

Mathematical Sciences

August, 2015

Catalog Entry

MAT 5620. Analysis II/(3).F.

A continuation of MAT 5610, including a rigorous development of the Riemann-Stieltjes integral, functions of several variables, and Lebesgue theory.

Prerequisite: MAT 5610 (Real Analysis I) or permission of the instructor.

Text

- *Calculus, Vol. 2*, T Apostol, Wiley, 2nd ed., 1969. (Alternate sources: [Google search](#)).
- *Introduction to Real Analysis*, WmCB, Wiley, 2009.

Syllabus

Our goal is a rigorous development of multivariable calculus and introductory measure theory. We'll go through chapters 8 & 11 \rightarrow 13 of Apostol's text and Chapter 3, *A Brief Introduction to Lebesgue Theory*, of WmCB's text.

Contact Information

Professor: Dr Wm C Bauldry

Office: Walker 237

Office Hours: To be announced and/or by appointment.
Check my: [online calendar](#), [Fall schedule](#).

Phone: (828) 262-2355 *office*
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Email: BauldryWC@appstate.edu

IM: App-Chat to *BauldryWC (electronic office hours)*

Class Web: <http://mathsci.appstate.edu/~wmcB/Class/>



QR code vCard

Grading

Midterm Exam	≈	100 pt.
Projects / Presentations	≈	100 pt.
Homework & Proofs	≈	100 pt.
Final Exam	≈	100 pt.
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Total	≈	400 pt.

Anticipated scores: 90%: A-; 80%: B-; 70%: C-

Note: Attendance is expected, but not graded.

Semester Class Project

Glossary: Build a glossary of the terms we use in analysis.
(*Start with basic items such as 'Partition'.*)

Generic Comments

- We will be occasionally using: Maple 2015™
- Attendance is not graded; however, mathematics can only be learned through active participation — not by osmosis. Study groups are a very smart idea!
- Cell phones must be silent during class and must be turned off for quizzes and tests. Using a cell phone during a quiz or test is academic misconduct. The instructor's cell-phone will be turned on during quizzes and tests for emergency notification.
- If you find a concept difficult, come in for help. Don't wait until an exam or quiz to prove that you don't understand something.
- If you cannot attend a test, make arrangements *before* an exam to make it up. There are no post hoc make-ups. Missed quizzes or homework assignments will not be made up. Keep close track — the days of exams & quizzes or due dates for homework may change.

University Policies

See the Academic Affairs Syllabi Policy Page

- **Academic Integrity Code**

See the complete Academic Code

Students ... agree to abide by the following Code:

- Students will not lie, cheat, or steal to gain academic advantage.
- Students will oppose every instance of academic dishonesty.

- **Disability Services**

See the Office of Disability Services

“Appalachian State University is committed to making reasonable accommodations for individuals with documented qualifying disabilities”

- **Attendance Policy**

See the ASU Attendance Policy

“Class attendance is an important part of a student's educational experience. Students are expected to attend every meeting of their classes and are responsible for class attendance.”

- **Student Engagement with Courses**

See Student Engagement

The “foremost activity of students is an intense engagement with their courses. In practical terms, students should expect to spend two to three hours of studying for every hour of class time.”