

# Math 100A: Enriched Calculus Fall 2005

## Course Details

**Instructors:** Jim Morrow, 1 Woodbridge Street, X2820, [jmorrow@mtholyoke.edu](mailto:jmorrow@mtholyoke.edu)  
Char Morrow, 1 Woodbridge Street, x2069, [cmorrow@mtholyoke.edu](mailto:cmorrow@mtholyoke.edu)

**Office Hours:** Jim: Tuesday & Thursdays 11-12 or by appointment  
Char: Wednesdays 2-4 or by appointment

### Link to On-Line Map to Our Office:

[http://www.mtholyoke.edu/courses/jmorrow/office\\_location.html](http://www.mtholyoke.edu/courses/jmorrow/office_location.html)

**Required Text:** *Calculus An Integrated Approach to Functions and Their Rates of Change*, preliminary edition, by Robin J. Gottlieb, Addison Wesley (available at the Odyssey)

**Recommended Accompanying Text:** *Student's Solutions Manual*, Slawomir Kwasiak, Addison Wesley, (also available at the Odyssey)

### Computer Laboratories and Evening Help:

- Software useful for Math 100A is available on the computers in 401 420 and 422 Clapp. All three rooms are open M - F, 8:00 a.m. - 5:30 p.m. (except during class hours), and Sun – Thurs, 7:00 p.m. - 10:00 pm.
- Evening Help for calculus, staffed by student course assistants, will be provided in 401 and 402 during the five evenings; assistants specifically for Math 100A will be available one or two evenings, to be announced.

**Course Requirements and Grades:** You are expected to attend all class meetings. On average, you should expect to spend 8 hours per week outside of class on this course. Grades are based on:

#### ▪ **Homework Assignments and "Paragraphs" : 20%**

Homework is assigned daily, with designated problems to be handed in and read by student assistants. Please turn in **only** the designated problems on pages stapled together. They will be collected on Fridays and returned on Mondays marked check-plus, check or check-minus. Check-plus means the work is good enough to study from; check means you would benefit from re-doing problems you had difficulties with; check-minus means you should get help and then redo the assignment. Each homework assignment can be resubmitted at most once, and the rewrite (just fix what needs fixing) is due the following week. Attach the original paper to the rewrite. Only the higher mark will be counted, so there is no penalty for an unsuccessful first try.

"Paragraph" assignments may consist of several brief responses, each a sentence or two, or may require a single coherent paragraph. There will be five paragraph assignments during the term. They should be carefully written, with attention to clarity and grammar. We'll grade them, evaluating both mathematical correctness and the effectiveness of the writing, using check-plus, etc. Paragraphs can be rewritten (same rules as for homework).

- **Quizzes (dropping the lowest one): 15%**

Quizzes will be nearly weekly, usually on Wednesday; they'll focus on the basic notions, and you'll always know exactly what the quiz will cover.

- **Two Exams: 40%**

Exams are tentatively scheduled as follows:

Exam 1 through 3.3, 10/7 (in-class portion); 9/30 thru 10/7 (take-home portion)

Exam 2 through 8.3, 11/11 (in-class portion); 11/4 – 11/11 (take-home portion)

- **Final Exam: 25%**

The final exam will be cumulative, through Chapter 10, but with an emphasis on the material since Exam 2. The "in-class" part will be self-scheduled through the Examination Center, and the take-home part will be handed out December 14 and due at the end of the examination period, noon on December 22.

**Summary of Grading Structure:**

Homework assignments and "paragraphs" : 20%

Quizzes (dropping the lowest one): 15%

Two midterm examinations: 40%

Final examination: 25%

**Recommendations and Policies Regarding Group Work:**

- Although assignments are to be written and turned in individually, students are encouraged to work together on homework and paragraph assignments. Papers should indicate the names of all group members who worked on the assignment.
- Quizzes and exams must be done completely on your own, abiding by the Honor Code.
- Working in a group is a great way to learn, and different groups are free to consult with each other, the course assistants, and me. Outside of class, we leave the formation of groups to you, but we will be glad to assist if asked. It is essential that you and your fellow group members have compatible schedules to permit ample time for joint work. A group functions best if all members attend meetings and are able to contribute. Evening Help is a great place to meet fellow students for group work.