

**SYLLABUS**  
**MATH 231 SECTION B8**  
**MWF 9-10 IN 24 ILLINI HALL**

**General Information.**

Instructor: Alexandra Seceleanu  
 Email: asecele2@illinois.edu  
 Web page: <http://www.math.uiuc.edu/~asecele2/teaching>  
 Office: 346 Illini Hall  
 Office Hours: Thursday, 5-6 PM (or by appointment) in 346 Illini Hall

Class Assistant: Adam Angel  
 Email: amangel2@illinois.edu  
 Office Hours: Tuesday, 9-10 AM in 10 Illini Hall

**Class resources.**

- Mathematica7 available for download on <http://webstore.illinois.edu/>
- Downloadable Lessons <http://calcand.math.uiuc.edu/courseware>
- ClassComm (for uploading hw) <http://cm.math.uiuc.edu/classcomm>
- Compass (for checking grades) <http://compass.uiuc.edu>

**Course Overview.**

Here is an outline of what we shall be covering this semester.

| <b>Topic</b>                                      | <b>Lesson</b>              | <b>Lab Dates</b>           | <b>Hw Due and Quiz</b> |
|---|----------------------------|----------------------------|------------------------|
| Feel of <i>Mathematica</i>                        | Feel of <i>Mathematica</i> | Jan 21                     |                        |
| Transform Integrals                               | 2.04                       | Jan 23, 26, 28, 30         | Jan 26 (M), Jan 30 (F) |
| More Tools  | 2.06                       | Feb 2, 4, 6, 9             | Feb 9 (M)              |
| Pat Procedures                                    | 2.07                       | Feb 11, 13, 16, 18         | Feb 18 (W)             |
| <b>MIDTERM I</b>                                  |                            | <b>Friday, February 20</b> |                        |
| 2D Integrals                                      | 2.05                       | Feb 23, 25, 27, Mar 2      | Mar 2 (M)              |
| Splines   | 3.01                       | Mar 4, 6, 9, 11            | Mar 11 (W)             |
| Expansions  | 3.02                       | Mar 13, 16, 18             | Mar 18 (W)             |
| Use expansions                                    | 3.03                       | Mar 20, 30, Apr 1, 3       | Apr 3 (F)              |
| <b>MIDTERM II</b>                                 |                            | <b>Monday, April 6</b>     |                        |
| Taylor's formula                                  | 3.04                       | Apr 8, 10, 13, 15          | Apr 15 (W)             |
| Convergence                                       | 3.05                       | Apr 17, 20, 22, 24         | Apr 24 (F)             |
| Power series                                      | 3.06                       | Apr 27, 29, May 1, 4       | May 4 (M)              |
| Final Review                                      |                            | May 6                      |                        |
| <b>FINAL EXAM 8:00-11:00 AM, Thursday, May 14</b> |                            |                            |                        |

## Grading.

- Homework 50% (Mathematica notebooks 40% + Written Homework 10%)
- Quizzes 5%
- Midterms 30% (15% for each of the 2 midterms)
- Final 15%

There will be no grade curving. Grades will be based on the following scale:

|         |          |          |          |          |          |          |        |          |    |
|---------|----------|----------|----------|----------|----------|----------|--------|----------|----|
|         | 68-69.99 | D+       | 78-79.99 | C+       | 88-89.99 | B+       | 98-100 | A+       |    |
| 0-59.99 | F        | 63-67.99 | D        | 73-77.99 | C        | 83-87.99 | B      | 93-97.99 | A  |
|         |          | 60-62.99 | D-       | 70-72.99 | C-       | 80-82.99 | B-     | 90-93.99 | A- |

**Homework.** Homework will consist of a Mathematica-based part, called *Give It A Try*, which you will submit online using ClassComm by 11:59PM on the due date above and a written part, called *Literacy Sheet*, which you will submit at the beginning of class on the due dates marked above.

You will work in pairs for solving the Mathematica homework. Both partners will earn the same score if their class attendance is sensibly equal. Otherwise, the one who attends less classes will be penalized. **Absolutely no late homework will be accepted.**

**Quizzes/Exams/Final.** The problems on the exams will be similar to the problems assigned in your *Literacy Sheet*. Practice exams will be handed out ahead of time to prepare for the exams. The final is cumulative, but with emphasis on the last 3 sections in the class.

**Make-up exams.** Should you have a very serious reason to miss a quiz please contact me to make arrangements ahead of time. Should you miss a midterm, you will need to provide a letter from the Emergency Dean.

## Office Hours.

- Alexandra: Thursday 5-6 PM in 346 Illini Hall
- Adam: Tuesday 9-10 AM in 10 Illini Hall

Office hours should be regarded as extra coaching for your success in this class. Please use them often. If the times listed above do not fit your schedule, don't hesitate to make an appointment for another time.

**Email questions.** As much as I would like to emphasize the use of office hours over email, I recognize that you might need emergency math help once in a while. Please email questions regarding Mathematica assignments both to Alexandra and Adam and questions about written assignments or any other concerns to Alexandra only.

**Math290.** The department recognizes that learning Mathematica is worth an extra hour of credit. It takes no extra work. If your attendance is above 80% of all classes, *your grade will be equal to your average Mathematica-based homework plus one letter grade*. If your attendance is below 80% of all classes, your grade will be equal to your average Mathematica-based homework. To register, go to the Undergraduate Math Office in room 313 AH and request a form to add Math 290. There is no online registration for Math 290.