Math 331 - Sec 08  Course Policy Summary  Spring 2016

| Lecture | TuTh 8:30 - 9:45 am | LGRT 141 | Michael Boratko |

Full details and updates appear on our section website:

http://people.math.umass.edu/~mboratko/teaching/

Michael Boratko
Office: LGRT 1423L
Hours: TBA
E-mail: mboratko@math.umass.edu
Mailbox: LGRT 1623D

Prerequisite: Successful completion of Integral Calculus (Math 132) and Multivariable Calculus (Math 233, which may be taken concurrently). Some familiarity with Linear Algebra at the level of Math 235 will be very helpful.

Requirements and grading:

- Homework: Optional, but strongly encouraged.
- Quizzes: 25%
- First Exam (Thursday, February 18, in class): 20%
- Second Exam (Thursday, March 24, in class): 20%
- Final Exam (Thursday, May 2, 10:30AM - 12:30PM, LGRT Marcus 131): 35%

The course letter-grade scale is:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90 - 100</td>
</tr>
<tr>
<td>A−</td>
<td>87 - 89</td>
</tr>
<tr>
<td>B+</td>
<td>83 - 86</td>
</tr>
<tr>
<td>B</td>
<td>79 - 82</td>
</tr>
<tr>
<td>B−</td>
<td>75 - 78</td>
</tr>
<tr>
<td>C+</td>
<td>71 - 74</td>
</tr>
<tr>
<td>C</td>
<td>67 - 70</td>
</tr>
<tr>
<td>C−</td>
<td>63 - 66</td>
</tr>
<tr>
<td>D+</td>
<td>59 - 62</td>
</tr>
<tr>
<td>D</td>
<td>55 - 58</td>
</tr>
<tr>
<td>F</td>
<td>&lt; 55</td>
</tr>
</tbody>
</table>


Topics: We will cover the first 6 chapters of Kreyszig. A proper subset of topics we will cover include:

- Introduction of ODEs from Mathematical Models
- Existence and Uniqueness
- First-Order ODEs, qualitatively
- Methods for solving First-Order ODEs (seperable, exact, substitutions)
- Models for First-Order ODEs
- n-th-Order Linear ODEs, and differential operators
- Methods for solving n-th Order Linear ODEs (Annihilator, Laplace Transform)
- Models and practical examples of second-order linear ODEs
- Systems of ODEs, with emphasis on 2-dimensional systems
- Preview of PDEs

The lectures will not strictly follow either book, and so any reference text should serve equally well.
Homework: *Homework assignments will be posted regularly (weekly) to the class website.*

Homework is optional only in the sense that it is not explicitly graded. If you do not do the homework, it is very likely you will not pass this class. Questions on the in-class, open-notes quizzes will be taken directly from the homework.

- If you have any issues accessing the homework, it is your responsibility to contact me and let me know.
- If, in completing the homework, you come across any typos, please contact me as soon as possible so I can correct them and disseminate the information to your classmates.

Quizzes: *Approximately 8 quizzes will be given, most in-class, some take-home.*

Quizzes are open book and open notes, and in-class quizzes are generally allotted only 10 minutes. Questions on in-class quizzes are taken directly from the associated homework, so if you have completed the homework you should simply have to copy down the answer onto the quiz. Students in the past have felt that the questions on the in-class quizzes are too difficult to complete within the allotted time if you have not completed the homework. This is intentional.

- No calculators on in-class quizzes.
- The lowest two quiz grades will be dropped.
- Make-up quizzes will be given during office hours provided you have made arrangements prior to the class during which the quiz is given.
- Please note that if a quiz is given as an out of class assignment, the due date is firm. If the quiz is not turned in on time, it will be counted as a zero, and there are no make-ups available.

Exams: *There will be three exams, two in-class and one final.*

- No calculators on exams.
- Absolutely no formula sheets, class notes, etc. will be allowed during exams. If you are completing the homework regularly, you should have enough faculty with the requisite formulas to not need references, at least while in this class.
- In case of an exam conflict, you must provide a documented request for a make-up two weeks before the exam. CHECK THE DATES ABOVE NOW, AND CONTACT ME IMMEDIATELY WITH ANY CONFLICTS!

Help resources

The strongly encourage students to take advantage of my office hours, which will be posted on the class website once they are determined. If my office hours do not work with your schedule, there are four Course-Wide TAs who are available in LGRT 1306, Monday-Thursday from 4:00 pm - 6:00 pm.

Religious observance

If you will be absent from an exam or other class activity because of religious observance, you must notify me in writing, in advance of the absence, and at the beginning of the semester – within one full week of your enrollment in the course.

Drops, Withdrawals, and Incompletes

The last day to drop with no record is Monday, February 1st. If you intend to drop, please do so as soon as possible; others may be waiting to enroll in your section. The last day to drop with a W is Thursday, March 3rd.

An Incomplete is possible only if: (1) you had a compelling personal reason, e.g., serious illness; (2) your work has clearly been passing; and (3) there’s a good chance you’ll complete the course with a passing grade within the allotted time. Thus, failing work is no reason in itself for an Incomplete.

Academic honesty

You must, of course, observe the UMass Academic Honesty policy. See: 

http://www.umass.edu/dean_students/codeofconduct/acadhonesty/