MATH 623 Winter 2014-15

Ordinary Differential Equations I

Instructor: Dr. Georgi Medvedev
Office: 292 Korman
Telephone, email: 6612, medvedev@drexel.edu

Lectures: TR 3.30-4.50 pm, Curtis 353A
Office hours: R 2.30-3.20 pm or by appointment
Course webpage: www.math.drexel.edu/~medvedev/classes/2014/math623/
will contain homework assignments and announcements


Prerequisites: Mathematical Analysis, Linear Algebra

Objective: This course provides an introduction to the qualitative theory of ordinary differential equations. Topics include the existence and uniqueness of solutions, phase portraits, linear equations, stability, and hyperbolicity. The course will cover Chapters 1-4 and, if time permits, selected sections from Chapter 5 or Chapter 8.

Homework: The homework problems will be assigned regularly. Selected problems will be graded. No late homework will be accepted without prior permission. Once a homework set is graded and returned no late homework will be accepted. You are welcome to discuss solutions to homework problems with fellow students. However, you are expected to write down the solutions on your own.

Examinations: There will be one midterm and one final examination. The dates will be announced in advance. Make-up exams are offered only under extraordinary circumstances (documented in writing), and only if approved by the instructor before the scheduled test. In case of an illness, a note from a doctor is required.

Attendance: Regular and punctual attendance at all scheduled classes is expected. Attendance will be taken regularly. More than two unexcused absences may affect your grade.

Assessment: Your final grade will be calculated as follows homework (55%), midterm (20%), and final (25%).

Attendance and class participation will decide border cases.

The following table is to help you to decide on your standing during this course:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90 – 100</td>
</tr>
<tr>
<td>B</td>
<td>80 – 89</td>
</tr>
<tr>
<td>C</td>
<td>70 – 79</td>
</tr>
<tr>
<td>D</td>
<td>60 – 69</td>
</tr>
</tbody>
</table>

(± will be assigned at the discretion of the instructor). Class participation and attendance
will decide border cases. Students earning points within the above bounds are assured of a final grade at least as indicated above.

**Academic integrity:** Please see [www.drexel.edu/provost/policies/academic_dishonesty.asp](http://www.drexel.edu/provost/policies/academic_dishonesty.asp)

**Problem resolution:** Please come to see me during my office hours or by appointment if you have any course related problems.  

---

1This syllabus is subject to change. Changes, if any, will be announced in class.