Instructor: Kevin Keating
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Office hours: Mondays 3:00–3:50, Wednesdays 10:40–11:30 and 3:00–3:50,
            or by appointment.
Class meets MWF 4:05–4:55 in Little 127.

Textbook
Nagle, Saff, and Snider.

Syllabus
This is a first course in ordinary differential equations. Some of the topics we will cover
are first order linear ODEs; first order non-linear ODEs, including the techniques of
separation of variables, exactness, and integrating factors; and second order linear ODEs,
including the techniques of finding fundamental solutions of homogeneous equations, the
Wronskian, undetermined coefficients, variation of parameters, the Laplace transform,
and power series solutions.

Exams
Friday, January 30, in class.
Friday, February 27, in class.
Wednesday, April 1, in class.
Friday, May 1, 10:00–12:00 (final).

Homework
I will assign homework problems each week to be collected and graded. Solutions to these
problems will be distributed after the homework has been collected. Late homework will
not be accepted. I will also assign some homework problems which will not be collected
or graded. You should certainly do these problems as well, since exam questions may
be based on them.

Grading
Each in-class exam is worth 20% of your final grade, the final is worth 40%, and the
homework assignments are worth a total of 20%. I will drop your lowest in-class exam
score (or half of your final exam) to make the total add up to 100%. Your grade will be
determined by the following scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Score Range</th>
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<tbody>
<tr>
<td>A</td>
<td>95 ≤ x ≤ 100</td>
</tr>
<tr>
<td>A−</td>
<td>90 ≤ x &lt; 95</td>
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<tr>
<td>B+</td>
<td>85 ≤ x &lt; 90</td>
</tr>
<tr>
<td>B</td>
<td>80 ≤ x &lt; 85</td>
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<tr>
<td>B−</td>
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<td>45 ≤ x &lt; 50</td>
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<tr>
<td>E</td>
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