Mathematics

MATH 441  **Differential Equations**  credit: 3 OR 4 hours.
Basic course in ordinary differential equations; topics include existence and uniqueness of solutions and the general theory of linear
differential equations; treatment is more rigorous than that given in MATH 285. 4 hours of credit requires approval of the instructor
and completion of additional work of substance. Credit is not given for both MATH 441 and any of MATH 284, MATH 285, MATH 286.
Prerequisite: MATH 241. Recommended: MATH 347 or MATH 348.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>32116</td>
<td>Lecture-Discussion</td>
<td>E13</td>
<td>01:00 PM - 01:50 PM</td>
<td>MWF</td>
<td>243 - Altgeld Hall</td>
<td>Arnold, M</td>
</tr>
</tbody>
</table>

Credit Hours: 3 hours
Restricted to majors requiring this course until April 29, 2013. Non-majors may register starting April 29. For questions contact mathadvising@illinois.edu.

| 32118  | Lecture-Discussion  | E14     | 01:00 PM - 01:50 PM | MWF  | 243 - Altgeld Hall | Arnold, M  |

Credit Hours: 4 hours
Instructor Approval Required
Restricted to Graduate - Urbana-Champaign.
Instructor approval forms available in 313 Altgeld Hall beginning on the first day of Fall semester.

| 57793  | Lecture-Discussion  | F13     | 02:00 PM - 02:50 PM | MWF  | 143 - Altgeld Hall | Tzirakis, N |

Credit Hours: 3 hours
Restricted to majors requiring this course until April 29, 2013. Non-majors may register starting April 29. For questions contact mathadvising@illinois.edu.

| 57794  | Lecture-Discussion  | F14     | 02:00 PM - 02:50 PM | MWF  | 143 - Altgeld Hall | Tzirakis, N |

Credit Hours: 4 hours
Instructor Approval Required
Restricted to Graduate - Urbana-Champaign.
Instructor approval forms available in 313 Altgeld Hall beginning on the first day of Fall semester.

| 32120  | Lecture-Discussion  | X13     | 12:00 PM - 12:50 PM | MWF  | 147 - Altgeld Hall | Palmore, J  |

Credit Hours: 3 hours
Restricted to majors requiring this course until April 29, 2013. Non-majors may register starting April 29. For questions contact mathadvising@illinois.edu.

| 32123  | Lecture-Discussion  | X14     | 12:00 PM - 12:50 PM | MWF  | 147 - Altgeld Hall | Palmore, J  |

Credit Hours: 4 hours
Instructor Approval Required
Restricted to Graduate - Urbana-Champaign.
Instructor approval forms available in 313 Altgeld Hall beginning on the first day of Fall semester.