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. 3 or 4 undergraduate hours. 3 or 4 graduate hours. Credit is not given for both MATH 441 and any of MATH 284, MATH 285, MATH 286. 4 hours of credit requires approval of the instructor and completion of additional work of substance. Prerequisite: MATH 241; MATH 347 or MATH 348 is recommended.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>32116</td>
<td>Lecture-Discussion</td>
<td>B13</td>
<td>09:00 AM - 09:50 AM</td>
<td>MWF</td>
<td>245 - Altgeld Hall</td>
<td>Berndt, B</td>
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<tr>
<td>32118</td>
<td>Lecture-Discussion</td>
<td>B14</td>
<td>09:00 AM - 09:50 AM</td>
<td>MWF</td>
<td>245 - Altgeld Hall</td>
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<td>Lecture-Discussion</td>
<td>D13</td>
<td>11:00 AM - 11:50 AM</td>
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<td>Tzirakis, N</td>
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<td>11:00 AM - 11:50 AM</td>
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<td>Lecture-Discussion</td>
<td>E13</td>
<td>01:00 PM - 01:50 PM</td>
<td>MWF</td>
<td>156 - Henry Administration Bldg</td>
<td>Tzirakis, N</td>
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<td>57794</td>
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<td>01:00 PM - 01:50 PM</td>
<td>MWF</td>
<td>156 - Henry Administration Bldg</td>
<td>Tzirakis, N</td>
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</tbody>
</table>

Credit Hours: 3 hours
This course is restricted to Engineering Mechanics, Mathematics, Math&CS, Physics, and Stat&CS majors initially, but the restriction will be removed during business hours on April 18, 2018.

Credit Hours: 4 hours
Instructor Approval Required
Restricted to Graduate - Urbana-Champaign.
Graduate students requesting the 4 credit hour section must first register for the 3 hour section. If the instructor is willing to offer extra work to graduate students for the 4-hour section, students can get an approval form from 313 Altgeld Hall between the first day of the semester and the 8th week of the semester.

Credit Hours: 3 hours
Section is restricted to Math and Math&CS until approximately 8am on April 27. Some seats are reserved for off-campus transfer students. Any extra seats will be released during business hours on the Friday before classes begin.

Credit Hours: 4 hours
Instructor Approval Required
Restricted to Engineering Mechanics or Physics or Mathematics or Statistics & Computer Science or Math & Computer Science major(s). Restricted to Graduate - Urbana-Champaign.
Graduate students requesting the 4 credit hour section must first register for the 3 hour section. If the instructor is willing to offer extra work to graduate students for the 4-hour section, students can get an approval form from 313 Altgeld Hall between the first day of the semester and the 8th week of the semester.

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