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. 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>343 - Altgeld Hall</td>
<td>Wang, J</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>343 - Altgeld Hall</td>
<td>Wang, J</td>
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<tr>
<td>57793</td>
<td>Lecture-Discussion</td>
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<td>02:00 PM - 02:50 PM</td>
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<td>09:30 AM - 10:50 AM</td>
<td>TR</td>
<td>245 - Everitt Laboratory</td>
<td>Sowers, R</td>
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<td>32123</td>
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<td>09:30 AM - 10:50 AM</td>
<td>TR</td>
<td>245 - Everitt Laboratory</td>
<td>Sowers, R</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 23, 2015.

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.

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.
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 23, 2015.

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