**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>
</tr>
</thead>
<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>
</tr>
</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.

| 32118| Lecture-Discussion     | B14     | 09:00 AM - 09:50 AM | MWF  | 245 - Altgeld Hall | Berndt, B  |

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.

| 32120| Lecture-Discussion     | D13     | 11:00 AM - 11:50 AM | MWF  | 1002 - Lincoln Hall | Tzirakis, N|

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.

| 32123| Lecture-Discussion     | D14     | 11:00 AM - 11:50 AM | MWF  | 1002 - Lincoln Hall | Tzirakis, N|

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.

| 57793| Lecture-Discussion     | E13     | 01:00 PM - 01:50 PM | MWF  | 156 - Henry Administration Bldg | Tzirakis, N|

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.

| 57794| Lecture-Discussion     | E14     | 01:00 PM - 01:50 PM | MWF  | 156 - Henry Administration Bldg | Tzirakis, N|
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.