Mathematics

MATH 423   **Differential Geometry**  credit: 3 OR 4 hours.
Applications of the calculus to the study of the shape and curvature of curves and surfaces; introduction to vector fields, differential forms on Euclidean spaces, and the method of moving frames for low-dimensional differential geometry. 3 or 4 undergraduate hours. 3 or 4 graduate hours. 4 hours of credit requires approval of the instructor and department with completion of additional work of substance. Prerequisite: MATH 241 or equivalent.

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<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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<tr>
<td>30352</td>
<td>Lecture-Discussion</td>
<td>B13</td>
<td>09:00 AM - 09:50 AM</td>
<td>MWF</td>
<td>145 - Altgeld Hall</td>
<td>Kapovitch, I</td>
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<td>Credit Hours: 3 hours</td>
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| 39127| Lecture-Discussion    | B14     | 09:00 AM - 09:50 AM | MWF  | 145 - Altgeld Hall | Kapovitch, I |
|      |                       |         |                   |      |                |            |
| 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.