Mathematics

MATH 402  **Non Euclidean Geometry**  credit: 3 OR 4 hours.

Historical development of geometry; includes tacit assumptions made by Euclid; the discovery of non-Euclidean geometries; geometry as a mathematical structure; and an axiomatic development of plane geometry. 4 hours of credit requires approval of the instructor and department with completion of additional work of substance. Prerequisite: MATH 241; MATH 347 or MATH 348, or equivalent; or consent of instructor.

This course satisfies the General Education Criteria for a:
Quantitative Reasoning II

<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>32099</td>
<td>Lecture-Discussion</td>
<td>D13</td>
<td>11:00 AM - 11:50 AM</td>
<td>MWF</td>
<td>241 - Altgeld Hall</td>
<td>Tolman, S</td>
</tr>
</tbody>
</table>

Credit Hours: 3 hours
Quant Reasoning II course.

| 39112| Lecture-Discussion    | D14     | 11:00 AM - 11:50 AM | MWF  | 241 - Altgeld Hall | Tolman, S  |

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

| 32102| Lecture-Discussion    | X13     | 12:00 PM - 12:50 PM | MWF  | 143 - Altgeld Hall | Tolman, S  |

Credit Hours: 3 hours
Quant Reasoning II course.

| 39113| Lecture-Discussion    | X14     | 12:00 PM - 12:50 PM | MWF  | 143 - Altgeld Hall | Tolman, S  |

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