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>36390</td>
<td>Online</td>
<td>ONL</td>
<td>ARRANGED -</td>
<td>-</td>
<td>-</td>
<td>Francis, G</td>
</tr>
</tbody>
</table>

Quant Reasoning II course.
Instructor Approval Required
Please e-mail Prof. George Francis at gfrancis@uiuc.edu to request approval. The prerequisites are Calculus III (vectors) and Math 347 or an equivalent course on mathematical discourse and proof.