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

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<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
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<td>32102</td>
<td>Lecture-Discussion</td>
<td>C13</td>
<td>10:00 AM - 10:50 AM</td>
<td>MWF</td>
<td>141 - Altgeld Hall</td>
<td>Dowdall, S</td>
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<td>OCE</td>
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Credit Hours: 3 hours
Quant Reasoning II course.

Credit Hours: 4 hours
Quant Reasoning II course.
Instructor Approval Required
Restricted to Graduate - Urbana-Champaign.

Credit Hours: 3 hours
Quant Reasoning II course.

Credit Hours: 4 hours
Quant Reasoning II course.
Instructor Approval Required
Restricted to Graduate - Urbana-Champaign.

Credit Hours: 3 hours
Online
Quant Reasoning II course.
Instructor Approval Required
Restricted to NDEG:Grad Nondegree-CE/UIUC or NDEG:Undergrad Nondeg-CE/UIUC.
Online and Continuing Education (OCE) restrictions and assessments apply, see http://www.oce.illinois.edu. Enrollment in this course section is open to off-campus non-degree and degree seeking students. All students wishing to enroll in this course need the instructor's approval. Please e-mail Prof. George Francis at gfrancis@illinois.edu to request approval. This course is NOT available to high school students. The prerequisites are Calculus 3 and Math 347/348 or the equivalent in the fundamentals of mathematical discourse and proofs. Clarification of the assessment notations listed: graduate students will be assessed $362 per credit hour; undergrad students will be assessed $325 per credit hour. All students will be assessed a $50 per credit hour administration fee. Graduate - Urbana-Champaign OCE Tuition $362.00 per Bill Hour, Undergrad - Urbana-Champaign OCE Tuition $325.00 per Bill Hour, and OCE Fees $50.00 per Bill Hour.
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Credit Hours: 3 hours
Quant Reasoning II course.
Departmental Approval Required