Mathematics

MATH 415  Linear Algebra  credit: 3 OR 4 hours.
(MATH 315) Introductory course emphasizing techniques of linear algebra; topics include matrix operations, determinants, linear equations, vector spaces, linear transformations, eigenvalues, and eigenvectors. 3 undergraduate hours. 3 or 4 graduate hours. 4 hours of credit requires approval of the instructor and completion of additional work of substance. Credit not given for both MATH 225 and either MATH 125 or MATH 415. Prerequisite: MATH 242 or MATH 243.

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>
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<tbody>
<tr>
<td>37957</td>
<td>Lecture-Discussion</td>
<td>A13</td>
<td>08:00 AM - 08:50 AM</td>
<td>MWF</td>
<td>245 - Altgeld Hall</td>
<td>Bergvelt, M</td>
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</tbody>
</table>

Credit Hours: 3 hours
Quant Reasoning II course.
Open to both undergraduate and graduate students.

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Credit Hours: 4 hours
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<td>156 - Henry Administration Bldg</td>
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<th>40670</th>
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Online
Quant Reasoning II course.
Restricted to MCS:Computer Sci Online -UIUC, MS:Electrical Engineering -UIUC, MS:Mechanical Engineering -UIUC, or NDEG:Grad Nondegree-CE-UIUC.
Academic Outreach restrictions and assessments apply, see http://www.outreach.uiuc.edu; Please see http://online.engr.uiuc.edu/descriptions/spring2005.htm for more details on this course; An extra substantive project is required for students enrolling for 4 hours.
Graduate - Urbana-Champaign OCE Tuition $608.00 per Bill Hour, Undergrad - Urbana-Champaign OCE Tuition $608.00 per Bill Hour, Graduate - Urbana-Champaign OCE Fees $36.00 per Bill Hour, and Undergrad - Urbana-Champaign OCE Fees $36.00 per Bill Hour.

<table>
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Quant Reasoning II course.
Section Z8 will be taught asynchronously using Mathematica courseware. See http://www.math.uiuc.edu/timetable/ for further details. Open to both undergraduate and graduate students.

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