Mathematics

MATH 415  **Linear Algebra**  credit: 3 OR 4 hours.
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 241(formerly MATH 243) or MATH 242.

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>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>Lauber, A</td>
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Credit Hours: 3 hours
Quant Reasoning II course.
Open to both undergraduate and graduate students.

| 37960 | Lecture-Discussion  | A14     | 08:00 AM - 08:50 AM | MWF  | 245 - Altgeld Hall | Lauber, A  |

Credit Hours: 4 hours
Quant Reasoning II course.
Instructor Approval Required
Not intended for Undergrad - Urbana-Champaign.
Instructor approval forms available in 313 Altgeld Hall.

| 37962 | Lecture-Discussion  | B13     | 09:00 AM - 09:50 AM | MWF  | 245 - Altgeld Hall | Manfroi, A |

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

| 37965 | Lecture-Discussion  | B14     | 09:00 AM - 09:50 AM | MWF  | 245 - Altgeld Hall | Manfroi, A |

Credit Hours: 4 hours
Quant Reasoning II course.
Instructor Approval Required
Not intended for Undergrad - Urbana-Champaign.
Instructor approval forms available in 313 Altgeld Hall.

| 37967 | Lecture-Discussion  | C13     | 10:00 AM - 10:50 AM | MWF  | 245 - Altgeld Hall | Bauer, R   |

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

| 37970 | Lecture-Discussion  | C14     | 10:00 AM - 10:50 AM | MWF  | 245 - Altgeld Hall | Bauer, R   |

Credit Hours: 4 hours
Quant Reasoning II course.
<table>
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<tr>
<th>CRN</th>
<th>Lecture-Discussion</th>
<th>Section</th>
<th>Time</th>
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<tr>
<td>37984</td>
<td>Lecture-Discussion</td>
<td>E83</td>
<td>01:00 PM - 01:50 PM</td>
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<td>F13</td>
<td>02:00 PM - 02:50 PM</td>
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<td>156 - Henry Administration Bldg</td>
<td>Duursma, I</td>
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<tr>
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<td>141 - Altgeld Hall</td>
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<td>156 - Henry Administration Bldg</td>
<td>Tumanov, A</td>
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Credit Hours: 3 hours
Quant Reasoning II course.
Instructor Approval Required
Not intended for Undergrad - Urbana-Champaign.
Instructor approval forms available in 313 Altgeld Hall.

Credit Hours: 4 hours
Quant Reasoning II course.
Instructor Approval Required
Not intended for Undergrad - Urbana-Champaign.
Instructor approval forms available in 313 Altgeld Hall.

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

Credit Hours: 4 hours
Quant Reasoning II course.
Instructor Approval Required
Not intended for Undergrad - Urbana-Champaign.
Instructor approval forms available in 313 Altgeld Hall.

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

Credit Hours: 4 hours
Quant Reasoning II course.
Departmental Approval Required

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<td>37974</td>
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<td>Tumanov, A</td>
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Credit Hours: 4 hours
Quant Reasoning II course.
Instructor Approval Required
Not intended for Undergrad - Urbana-Champaign.
Instructor approval forms available in 313 Altgeld Hall.

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<td>Rosendal, C</td>
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Credit Hours: 3 hours
Quant Reasoning II course.
Open to both undergraduate and graduate students.

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<td>10:30 AM - 11:50 AM</td>
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<td>Rosendal, C</td>
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Credit Hours: 4 hours
Quant Reasoning II course.
Instructor Approval Required
Not intended for Undergrad - Urbana-Champaign.
Instructor approval forms available in 221 Altgeld Hall beginning January 13, 2005.

<table>
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<tr>
<th>Course Code</th>
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<tr>
<td>37991</td>
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<td>Laboratory-Discussion</td>
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<td>ARRANGED -</td>
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<td>Carpenter, B</td>
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Credit Hours: 3 hours
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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<tr>
<td>37988</td>
<td>Z84</td>
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Quant Reasoning II course.
Instructor Approval Required
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