Mathematics

MATH 347  **Fundamental Mathematics**  credit: 3 hours.
Fundamental ideas used in many areas of mathematics. Topics will include: techniques of proof, mathematical induction, binomial coefficients, rational and irrational numbers, the least upper bound axiom for real numbers, and a rigorous treatment of convergence of sequences and series. This will be supplemented by the instructor from topics available in the various texts. Students will regularly write proofs emphasizing precise reasoning and clear exposition. Credit is not given for both MATH 347 and MATH 348. Prerequisite: MATH 231.

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>34498</td>
<td>Lecture-Discussion</td>
<td>B1</td>
<td>09:00 AM - 09:50 AM</td>
<td>MWF</td>
<td>241 - Altgeld Hall</td>
<td>Fuchs, E</td>
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<tr>
<td>34448</td>
<td>Lecture-Discussion</td>
<td>C1</td>
<td>10:00 AM - 10:50 AM</td>
<td>MWF</td>
<td>345 - Altgeld Hall</td>
<td>Miller, A</td>
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<tr>
<td>34504</td>
<td>Lecture-Discussion</td>
<td>D1H</td>
<td>11:00 AM - 11:50 AM</td>
<td>MWF</td>
<td>447 - Altgeld Hall</td>
<td>Reznick, B</td>
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<tr>
<td>34450</td>
<td>Lecture-Discussion</td>
<td>E1</td>
<td>01:00 PM - 01:50 PM</td>
<td>MWF</td>
<td>170 - Everitt Laboratory</td>
<td>Samart, D</td>
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<tr>
<td>34383</td>
<td>Lecture-Discussion</td>
<td>F1</td>
<td>02:00 PM - 02:50 PM</td>
<td>MWF</td>
<td>145 - Altgeld Hall</td>
<td>Duursma, I</td>
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<tr>
<td>34395</td>
<td>Lecture-Discussion</td>
<td>G1</td>
<td>03:00 PM - 03:50 PM</td>
<td>MWF</td>
<td>147 - Altgeld Hall</td>
<td>Ruan, Z</td>
</tr>
</tbody>
</table>

Quant Reasoning II course.
Math 347 is restricted to Mathematics and Math/CS majors until the morning of June 26th. Contact mathadvising@illinois.edu if you have questions. Math minors should attempt to register for this class on June 26, 2014; however admission to the minor does not guarantee a seat in any math course.

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Departmental Approval Required
James Scholars, and Quant Reasoning II course.
Not intended for Graduate - Urbana-Champaign.
Honors section. Permission of Honors Committee required. E-mail advising@math.uiuc.edu for further information.

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| 34444 | Lecture-Discussion | X1 | 12:00 PM - 12:50 PM | MWF | 141 - Altgeld Hall | Miller, A |

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