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>
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<tbody>
<tr>
<td>64976</td>
<td>Lecture-Discussion</td>
<td>B1</td>
<td>09:00 AM - 09:50 AM</td>
<td>MWF</td>
<td>143 - Henry Administration Bldg</td>
<td>Xiao, M</td>
</tr>
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</table>

Quant Reasoning II course.
Restriction will be removed on November 30, 2016

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>37894</td>
<td>Lecture-Discussion</td>
<td>C1</td>
<td>10:00 AM - 10:50 AM</td>
<td>MWF</td>
<td>141 - Altgeld Hall</td>
<td>Xiao, M</td>
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</table>

Quant Reasoning II course.
Math 347 is restricted to Mathematics and Math/CS majors until November 30, 2016. Contact mathadvising@illinois.edu if you have questions.

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<tr>
<td>37895</td>
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<td>11:00 AM - 11:50 AM</td>
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<td>243 - Altgeld Hall</td>
<td>Lerman, E</td>
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Quant Reasoning II course.
Reserved for students planning to join the Secondary Education Program or by special invitation. Those interested in this section should contact mathadvising@illinois.edu with subject line "Special Math 347" and include name, netid, UIN, and explanation of interest.

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<tr>
<td>64461</td>
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<td>E1</td>
<td>01:00 PM - 01:50 PM</td>
<td>MWF</td>
<td>341 - Altgeld Hall</td>
<td>Walsberg, E</td>
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Quant Reasoning II course.
This section will be opened with no restrictions during business hours on November 30, 2016. Contact mathadvising@illinois.edu if you have questions.

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<th>Location</th>
<th>Instructor</th>
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<td>341 - Altgeld Hall</td>
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</table>

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<th>Location</th>
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<td>12:00 PM - 12:50 PM</td>
<td>MWF</td>
<td>2 - Illini Hall</td>
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Quant Reasoning II course. 
Departmental Approval Required 
Not intended for Graduate - Urbana-Champaign. 
Honors section. Requires department approval. Email mathadvising@illinois.edu with name, netid, UIN, previous math grades and accomplishments, and request for honors Math 347.