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></td>
</tr>
</tbody>
</table>

Quantitative Reasoning II course.
Math 347 is restricted to Mathematics and Math/CS majors. Major restrictions will be removed on April 26, 2018. Contact mathadvising@illinois.edu if you have questions. Math minors may attempt to register for this class on April 26, 2018; however admission to the minor does not guarantee a seat in any math course. Students completing Math 241 and hoping to transfer to a mathematics major should make an appointment with a math advisor during early registration. Some seats are reserved for math transfer students and will not be released until late August.

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<tbody>
<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></td>
</tr>
</tbody>
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<tr>
<td>68430</td>
<td>Lecture-Discussion</td>
<td>C1H</td>
<td>10:00 AM - 10:50 AM</td>
<td>MWF</td>
<td>2 - Illini Hall</td>
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Quantitative Reasoning II course.
Departmental Approval Required
Not intended for Graduate - Urbana-Champaign.
Enrollment in this honors section is restricted to students who have shown excellence in mathematics. To request permission for this section please go to http://go.illinois.edu/FA18Math347H and fill out the information requested. Students who have demonstrated excellence in mathematics may use this section for James Scholar credit, but the section is not restricted to James Scholars.

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<tbody>
<tr>
<td>66654</td>
<td>Lecture-Discussion</td>
<td>C2M</td>
<td>09:00 AM - 10:50 AM</td>
<td>T</td>
<td>104 - Talbot Laboratory</td>
<td></td>
</tr>
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Quantitative Reasoning II course.
Departmental Approval Required
This section is reserved for students who are working towards the Secondary Education minor and/or have participated in the Math Merit Program. Please contact mathadvising@illinois.edu with questions.
Must enroll concurrently in MATH 199 49974.
<table>
<thead>
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<th>Time</th>
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<tbody>
<tr>
<td>65074</td>
<td>Lecture-Discussion</td>
<td>D1 11:00 AM</td>
<td>MWF</td>
<td>140 - Henry Administration Bldg</td>
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<td>34450</td>
<td>Lecture-Discussion</td>
<td>E1 01:00 PM</td>
<td>MWF</td>
<td>243 - Altgeld Hall</td>
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<td>34383</td>
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<td>F1 02:00 PM</td>
<td>MWF</td>
<td>145 - Altgeld Hall</td>
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<tr>
<td>34395</td>
<td>Lecture-Discussion</td>
<td>G1 03:00 PM</td>
<td>MWF</td>
<td>143 - Altgeld Hall</td>
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<tr>
<td>34444</td>
<td>Lecture-Discussion</td>
<td>X1 12:00 PM</td>
<td>MWF</td>
<td>141 - Altgeld Hall</td>
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<tr>
<td>67249</td>
<td>Lecture-Discussion</td>
<td>X2 12:00 PM</td>
<td>MWF</td>
<td>441 - Altgeld Hall</td>
</tr>
</tbody>
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Quantitative Reasoning II course.
Restricted to Mathematics or Math & Computer Science major(s).
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