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>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>Tolman, S</td>
</tr>
<tr>
<td>68430</td>
<td>Lecture-Discussion</td>
<td>B1H</td>
<td>09:00 AM - 09:50 AM</td>
<td>MWF</td>
<td>145 - Altgeld Hall</td>
<td>Yong, A</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>Walsberg, E</td>
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<tr>
<td>66654</td>
<td>Lecture-Discussion</td>
<td>C2M</td>
<td>10:00 AM - 10:50 AM</td>
<td>WF</td>
<td>143 - Henry Administration Bldg</td>
<td>Sisneros-Thiry, S Tolman, S</td>
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<td></td>
<td>Lecture-Discussion</td>
<td>C2M</td>
<td>10:00 AM - 11:50 AM</td>
<td>M</td>
<td>143 - Henry Administration Bldg</td>
<td>Sisneros-Thiry, S Tolman, S</td>
</tr>
</tbody>
</table>

Quantitative Reasoning II course.
Math 347 is restricted to Mathematics and Math/CS majors. Major restrictions will be removed between 1-3pm on April 25, 2017. Contact mathadvising@illinois.edu if you have questions. Math minors may attempt to register for this class on April 25, 2017; 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.

Departmental Approval Required
Quantitative Reasoning II course.
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/FA17MATH347H 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.

Departmental Approval Required
Quantitative Reasoning II course.
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.
Quantitative Reasoning II course.
Math 347 is restricted to Mathematics and Math/CS majors. Major restrictions will be removed between 1-3pm on April 25, 2017.
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34450 Lecture-Discussion E1 01:00 PM - 01:50 PM MWF 447 - Altgeld Hall Lutzer, D

Quantitative Reasoning II course.
Not intended for Graduate - Urbana-Champaign.
Math 347 is restricted to Mathematics and Math/CS majors. Major restrictions will be removed between 1-3pm on April 25, 2017.
Contact mathadvising@illinois.edu if you have questions. Math minors may attempt to register for this class on April 25, 2017; 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.

34383 Lecture-Discussion F1 02:00 PM - 02:50 PM MWF 145 - Altgeld Hall Kutzarova-Ford, D

Quantitative Reasoning II course.
Math 347 is restricted to Mathematics and Math/CS majors. Major restrictions will be removed between 1-3pm on April 25, 2017.
Contact mathadvising@illinois.edu if you have questions. Math minors may attempt to register for this class on April 25, 2017; 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.

34395 Lecture-Discussion G1 03:00 PM - 03:50 PM MWF 147 - Altgeld Hall Kutzarova-Ford, D

Quantitative Reasoning II course.
Math 347 is restricted to Mathematics and Math/CS majors. Major restrictions will be removed between 1-3pm on April 25, 2017.
Contact mathadvising@illinois.edu if you have questions. Math minors may attempt to register for this class on April 25, 2017; 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.

34504 Lecture-Discussion P1H 11:00 AM - 12:20 PM TR 145 - Altgeld Hall Tserunyan, A

Departmental Approval Required
James Scholars, and Quantitative Reasoning II course.
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/FA17MATH347H 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. Math 347 is restricted to Mathematics and Math/CS majors until the morning of April 25, 2017. Contact mathadvising@illinois.edu if you have questions. Math minors may attempt to register for this class on April 25, 2017; 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.

34444 Lecture-Discussion X1 12:00 PM - 12:50 PM MWF 141 - Altgeld Hall Walsberg, E

Quantitative Reasoning II course.
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<th>67249</th>
<th>Lecture-Discussion</th>
<th>X2</th>
<th>12:00 PM - 12:50 PM</th>
<th>MWF</th>
<th>441 - Altgeld Hall</th>
<th>Culver, D</th>
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Quantitative Reasoning II course.
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