Mathematics

MATH 347  **Fundamental Mathematics**  credit: 3 hours.

(MATH 247) 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. Prerequisite: MATH 230.

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>Nevins, T</td>
</tr>
<tr>
<td>34383</td>
<td>Lecture-Discussion</td>
<td>F1</td>
<td>02:00 PM - 02:50 PM</td>
<td>MWF</td>
<td>149 - Henry Administration Bldg</td>
<td>Ford, K</td>
</tr>
<tr>
<td>34395</td>
<td>Lecture-Discussion</td>
<td>G1</td>
<td>03:00 PM - 03:50 PM</td>
<td>MWF</td>
<td>154 - Henry Administration Bldg</td>
<td>Rosenblatt, J</td>
</tr>
<tr>
<td>34444</td>
<td>Lecture-Discussion</td>
<td>X1</td>
<td>12:00 PM - 12:50 PM</td>
<td>MWF</td>
<td>159 - Altgeld Hall</td>
<td>Messmer, M</td>
</tr>
<tr>
<td>34448</td>
<td>Lecture-Discussion</td>
<td>X2</td>
<td>12:00 PM - 12:50 PM</td>
<td>MWF</td>
<td>152 - Henry Administration Bldg</td>
<td>Barcau, M</td>
</tr>
<tr>
<td>34450</td>
<td>Lecture-Discussion</td>
<td>X3H</td>
<td>12:00 PM - 12:50 PM</td>
<td>MWF</td>
<td>447 - Altgeld Hall</td>
<td>Ando, M</td>
</tr>
</tbody>
</table>

Quant Reasoning II course.
Quant Reasoning II course.

Quant Reasoning II course.
Quant Reasoning II course.

Quant Reasoning II course.
Quant Reasoning II course.

Quant Reasoning II course.
Quant Reasoning II course.

Quant Reasoning II course.
Quant Reasoning II course.

Quant Reasoning II course.
Quant Reasoning II course.

Quant Reasoning II course.
Quant Reasoning II course.

James Scholars, and Quant Reasoning II course.
Requires department approval.