Mathematics

MATH 417  Intro to Abstract Algebra  credit: 3 OR 4 hours.
Fundamental theorem of arithmetic. Congruencies, groups and group actions, Polya counting, rings, fields, and roots of polynomials. Emphasizes proofs. 3 undergraduate hours. 3 or 4 graduate hours. 4 hours of credit requires approval of the instructor and completion of additional work of substance. Prerequisite: MATH 415 and either MATH 347 or MATH 348; or consent of instructor.

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>30011</td>
<td>Lecture-Discussion</td>
<td>C3</td>
<td>10:00 AM - 10:50 AM</td>
<td>MTWRF</td>
<td>245 - Altgeld Hall</td>
<td>Robinson, D</td>
</tr>
<tr>
<td></td>
<td>Lecture-Discussion</td>
<td>C3</td>
<td>12:00 PM - 12:50 PM</td>
<td>F</td>
<td>245 - Altgeld Hall</td>
<td>Robinson, D</td>
</tr>
</tbody>
</table>

Credit Hours: 3 hours
Quant Reasoning II course.

<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>30010</td>
<td>Lecture-Discussion</td>
<td>C4</td>
<td>10:00 AM - 10:50 AM</td>
<td>MTWRF</td>
<td>245 - Altgeld Hall</td>
<td>Robinson, D</td>
</tr>
<tr>
<td></td>
<td>Lecture-Discussion</td>
<td>C4</td>
<td>12:00 PM - 12:50 PM</td>
<td>F</td>
<td>245 - Altgeld Hall</td>
<td>Robinson, D</td>
</tr>
</tbody>
</table>

Credit Hours: 4 hours
Quant Reasoning II course.
Departmental Approval Required