Mathematics

MATH 447  **Real Variables**  credit: 3 OR 4 hours.

(MATH 347) Careful development of elementary real analysis including such topics as completeness property of the real number system; basic topological properties of n-dimensional space; convergence of numerical sequences and series of functions; properties of continuous functions; and basic theorems concerning differentiation and Riemann integration. 3 undergraduate hours. 3 or 4 graduate hours. 4 hours of credit requires approval of the instructor and completion of additional work of substance. Credit is not given for both MATH 447 and MATH 444. Prerequisite: MATH 242 or MATH 243 or equivalent, and junior standing; MATH 347 or MATH 348 or equivalent experience; 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>32137</td>
<td>Lecture-Discussion</td>
<td>D1G</td>
<td>11:00 AM - 11:50 AM</td>
<td>MWF</td>
<td>347 - Altgeld Hall</td>
<td>Miles, J</td>
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</tbody>
</table>
|      | Quant Reasoning II course.  
Restricted to Graduate - Urbana-Champaign.  
| 32136| Lecture-Discussion  | D1U     | 11:00 AM - 11:50 AM | MWF  | 347 - Altgeld Hall | Miles, J  |
|      | Credit Hours: 3 hours 
Quant Reasoning II course.  
Restricted to Undergrad - Urbana-Champaign.  
| 32139| Lecture-Discussion  | R1G     | 01:00 PM - 02:20 PM | TR   | 443 - Altgeld Hall | Kedem, R  |
|      | Quant Reasoning II course.  
Restricted to Graduate - Urbana-Champaign.  
| 32138| Lecture-Discussion  | R1U     | 01:00 PM - 02:20 PM | TR   | 443 - Altgeld Hall | Kedem, R  |
|      | Credit Hours: 3 hours  
Quant Reasoning II course.  
Restricted to Undergrad - Urbana-Champaign.  