Mathematics

MATH 424  **Honors Real Analysis**  credit: 3 hours.

A rigorous treatment of basic real analysis via metric spaces recommended for those who intend to pursue programs heavily dependent
upon graduate level Mathematics. Metric space topics include continuity, compactness, completeness, connectedness and uniform
convergence. Analysis topics include the theory of differentiation, Riemann-Darboux integration, sequences and series of functions, and
interchange of limiting operations. As part of the honors sequence, this course will be rigorous and abstract. 3 undergraduate hours. No
graduate credit. Credit is not given for both Math 424 and either Math 444 or Math 447. Approved for honors grading. Prerequisite: An
honors section of MATH 347 or an honors section of MATH 416, and consent of the department.

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<th>Time</th>
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<th>Location</th>
<th>Instructor</th>
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<tr>
<td>39577</td>
<td>Lecture-Discussion</td>
<td>E</td>
<td>01:00 PM - 01:50 PM</td>
<td>MWF</td>
<td>214 - Davenport Hall</td>
<td>Solecki, S</td>
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Departmental Approval Required
Restricted to Undergrad - Urbana-Champaign.

Students doing well in honors 347 or honors 416, or those with a strong recommendation from their instructor in regular 347 or 416,
should e-mail mathadvising@illinois.edu with name, netid, UIN, and request for approval to register for Math 424.