MATH 531  **Analytic Theory of Numbers I**  credit: 4 hours.

Problems in number theory treated by methods of analysis; arithmetic functions, Dirichlet series, Riemann zeta function, L-functions, Dirichlet's theorem on primes in progressions, the prime number theorem. Prerequisite: MATH 448 and either MATH 417 or MATH 453.

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<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
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<tr>
<td>30823</td>
<td>Lecture-Discussion</td>
<td>E1</td>
<td>12:30 PM - 01:50 PM</td>
<td>TR</td>
<td>145 - Altgeld Hall</td>
<td>Zaharescu, A</td>
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</tbody>
</table>


Undergraduate students may register with approval. For more information go to room 313 AH. Students from the following programs must contact the Director of Graduate Studies in Mathematics <rdeville@illinois.edu> to request permission to register for the course: MS:Economics:Policy Econ -UIUC or MS: Financial Engineering. Restricted to Graduate - Urbana-Champaign. Not intended for MS:Economics:Policy Econ -UIUC, MS:Economics:Policy Econ -UIUC, MS: Financial Engineering, MENG: Mechanical Engineering-UIUC, MENG: Elec & Computer Eng-UIUC, or MENG: Engineering: Comp Eng-UIUC.