Class Schedule - Fall 2006

Mathematics

MATH 502  **Commutative Algebra**  credit: 4 hours.
Commutative rings and modules, prime ideals, localization, noetherian rings, primary decomposition, integral extensions and Noether normalization, the Nullstellensatz, dimension, flatness, Hensel's lemma, graded rings, Hilbert polynomial, valuations, regular rings, singularities, unique factorization, homological dimension, depth, completion. Possible further topics: smooth and étale extensions, ramification, Cohen-Macaulay modules, complete intersections. Prerequisite: MATH 501 or consent of instructor.

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<thead>
<tr>
<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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</thead>
<tbody>
<tr>
<td>30817</td>
<td>Lecture-Discussion</td>
<td>N1</td>
<td>10:30 AM - 11:50 AM</td>
<td>TR</td>
<td>341 - Altgeld Hall</td>
<td>Dutta, S</td>
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