Class Schedule - Spring 2007

Mathematics

MATH 500  **Abstract Algebra I**  credit: 4 hours.
Isomorphism theorems for groups, centers of p-groups, simplicity of A_n, Jordan-Holder Theorem; Commutative Rings and Fields, PIDs, UFDs, Gauss's Lemma, splitting fields, Hilbert Basis Theorem, Zariski topology; Modules over Commutative Rings, structure theorem for finitely generated modules over PIDs, with applications to abelian groups and canonical forms for matrices; Zorn's lemma and applications, existence and uniqueness of algebraic closures; Categories and Functors, universal mapping properties, natural transformations, limits and colimits. Prerequisite: MATH 417 and MATH 418.

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<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
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<th>Location</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>38153</td>
<td>Lecture-Discussion</td>
<td>N1</td>
<td>09:00 AM - 10:20 AM</td>
<td>TR</td>
<td>314 - Lincoln Hall</td>
<td>Bergvelt, M</td>
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