Information on Math 520B

Algebra — Doctoral Core II
Call No. 2890

August 29, 2005


PLACE: ES 152A

Office hours: Mon. & Wed. 2:45 – 3:30
Email: hammond at math.albany.edu
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TEXT: Thomas Hungerford, Algebra

PRE-REQUISITE: Math 520A

BULLETIN DESCRIPTION:

Modules over a principle ideal domain, semisimple rings and modules, Wedderburn’s theorem, tensor products, the Hom functor, projective and injective modules, localization. Prerequisite: Mat 520A.

COURSE OBJECTIVE:

Between Math 520A and Math 520B it is expected that about 80% of the syllabus for the Preliminary Ph.D. exam in algebra should be covered.

TEST SCHEDULE:

<table>
<thead>
<tr>
<th>Event</th>
<th>Weight</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final examination</td>
<td>100</td>
<td>Wed. Dec. 14, 3:30-5:30</td>
</tr>
<tr>
<td>Midterm test</td>
<td>50</td>
<td>(est.) Wed. Oct. 19, in class</td>
</tr>
<tr>
<td>Written Assignments (5 @ 10 each)</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Weekly quizzes (10 @ 5 each)</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Total weight</td>
<td>250</td>
<td></td>
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The instructor reserves the option of substituting “take-home” exams for the scheduled midterm and final examinations. In either of those events the exam will be due at a time announced with its distribution.

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