Course Information

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Textbook. For most of the semester, we will work from the following book:


At various points, we may supplement this with topics from other sources, especially


Course outline. A rough schedule of topics for the semester is as follows.

<table>
<thead>
<tr>
<th>Topic</th>
<th>Duration</th>
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<tbody>
<tr>
<td>Abelian categories; chain complexes; derived functors</td>
<td>3 weeks</td>
</tr>
<tr>
<td>Tor and Ext; homological dimension</td>
<td>2 weeks</td>
</tr>
<tr>
<td>Derived categories; triangulated categories; spectral sequences</td>
<td>3 weeks</td>
</tr>
<tr>
<td>Group cohomology; Hochschild homology</td>
<td>2 weeks</td>
</tr>
<tr>
<td>Sheaf cohomology</td>
<td>1 week</td>
</tr>
<tr>
<td>Simplicial methods; further topics</td>
<td>remaining time</td>
</tr>
</tbody>
</table>

Homework & Grading. Problem sets will be due approximately once every week or two. Each problem set will consist of about 3–5 problems. The letter grade will be based on the number of problem sets submitted with substantial work, and the +/- designation will be based on the number of correct solutions.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
<th>Correct Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Substantial work on at least 80% of the problem sets</td>
<td>+ At least 90% correct solutions</td>
</tr>
<tr>
<td>B</td>
<td>Substantial work on at least 50% of the problem sets</td>
<td>neutral At least 50% correct solutions</td>
</tr>
<tr>
<td>C</td>
<td>Substantial work on at least 20% of the problem sets</td>
<td>neutral Less than 50% correct solutions</td>
</tr>
<tr>
<td>D</td>
<td>Less than 20% of the problem sets submitted</td>
<td>− Less than 50% correct solutions</td>
</tr>
<tr>
<td>F</td>
<td>No work submitted</td>
<td>No work submitted</td>
</tr>
</tbody>
</table>

Under normal circumstances, I expect everyone to earn at least an ‘A’. If you feel that you are getting behind, please come see me as soon as possible.

Exams. There will be no timed exams. In lieu of a final exam, the last homework assignment will be due at the scheduled time for the final exam: Monday, December 7, 10:00am.