

# Information on Math 520B

Algebra — Doctoral Core II

Call No. 2890

August 29, 2005

**TIME OF MEETING:** Mon, Wed, & Fri 11:30 – 12:25.

**PLACE:** ES 152A

**INSTRUCTOR:** W. F. Hammond, ES 137A, phone 442-4625.  
Office hours: Mon. & Wed. 2:45 – 3:30  
Email: hammond at math.albany.edu  
World Wide Web: <http://www.albany.edu/~hammond/>

**TEXT:** Thomas Hungerford, *Algebra*  
Springer, 1974, ISBN 0-387-90518-9, ISBN 3-540-90518-9.

**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<sup>1</sup> in algebra should be covered.

## TEST SCHEDULE:

Event	Weight	Date
Final examination	100	Wed. Dec. 14, 3:30–5:30
Midterm test	50	(est.) Wed, Oct. 19, in class
Written Assignments (5 @ 10 each)	50	
Weekly quizzes (10 @ 5 each)	50	
Total weight	250	

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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<sup>1</sup>URI: <http://math.albany.edu:8000/math/prelims/syllabi/syll-alg.html>