MAT 731, Fall 2009

T Th 12:30 – 1:50PM, 312 Carnegie

Instructor: , 317B Carnegie, 443-1497, mkleiner@syr.edu

Office Hours: Tu 3:30 – 4:20PM, Th 10:00 – 10:50AM, and by appointment.

Textbook: *Advanced Modern Algebra,* by Joseph J. Rotman, Prentice Hall, 2002. We will cover Chapters 7, 8, 10, and 11 with some omissions.

Prerequisites: MAT 632.

Grading: The course grade will be based on take-home problem sets and in-class exams.

Learning Goals: To study basic facts of ring and module theory, including projective and injective modules, exact sequences, functors Hom and tensor product, chain conditions, the Jacobson radical, and semisimple rings and modules.

Academic Integrity: The Syracuse University Academic Integrity Policy holds students accountable for the integrity of the work they submit. Students should be familiar with the Policy and know that it is their responsibility to learn about instructor and general academic expectations with regard to proper citation of sources in written work. The policy also governs the integrity of work submitted in exams and assignments as well as the veracity of signatures on attendance sheets and other verifications of participation in class activities. Serious sanctions can result from academic dishonesty of any sort.

Disabilities: If you believe that you need accommodations for a disability, please contact the Office of Disability Services (ODS), http://disabilityservices.syr.edu, located in Room 309 of 804 University Avenue, or call (315) 443-4498 for an appointment to discuss your needs and the process for requesting accommodations. ODS is responsible for coordinating disability-related accommodations and will issue students with documented disabilities Accommodation Authorization Letters, as appropriate. Since accommodations may require early planning and generally are not provided retroactively, please contact ODS as soon as possible.