SYRACUSE UNIVERSITY MAT 731, RINGS AND MODULES FALL, 2010 SYLLABUS

Instructor:	Declan Quinn, Physics 229D 443-1480 dpquinn@syr.edu
Office Hours:	Monday 11.45am – 12.40pm Tuesday 10:00am – 11:00am Wednesday 1:30pm – 2:30pm

Course Description: Submodules, factor modules, chain conditions, Hilbert basis theorem, division rings, Schur's lemma. Jacobson density theorem, semi-simple modules, socies, Jacobson radical, semi primitive rings, Artin-Wedderburn theorem, integral extensions, completions, localization.

Text: Advanced Modern Algebra, by Joseph J. Rotman, Prentice Hall 2002.

Mathematics Prerequisites: MAT 631, 632.

Homework: Problems will be assigned in class and some of these will be collected and graded. You are welcome to work with your classmates on problems, but each student must write up an independent solution.

Exams: There will be one in-class exam (on a date to be announced) about the middle of the semester. In addition there will be a take-home exam at the end of the semester which must be worked independently.

Grades: Homework will count for 50% of your grade, the midterm will count 20% and the takehome final will count the remaining 30%.

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: Students who may need academic accommodations due to a disability are encouraged to discuss their needs with the instructor at the beginning of the semester. In order to obtain authorized accommodations, students should be registered with the Office of Disability Services (ODS), 804 University Avenue, Room 309, 315-443-4498 and have an updated accommodation letter for the instructor. Accommodations and related support services such as exam administration are not provided retroactively and must be requested in advance. For more information contact the Office of Disability Services.

Office of Disability Services: Office of Disability Services, 804 University Avenue Room 309, Syracuse, New York 13244-2330 (315) 443-4498 TDD: (315) 443-1371

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