

## COURSE INFORMATION

**Course name and section:** Math 626/Modern Algebra II

**Hours and location:** 1:00pm-2:15pm MW in Hume Hall 321

**Instructor:** Sandra Spiroff

**Office address:** Hume Hall 335

**Office hours:** Mon 11am-noon & 2:20pm-3:30pm; Wed 11am-noon; also by appointment

**Office telephone number:** (662) 915-5646

**E-mail address:** spiroff@olemiss.edu

**Text for the course:** The main text will be *Algebra*, by T. Hungerford. A secondary text is *Abstract Algebra*, by D. Dummit and & R. Foote. Any edition is acceptable.

**Prerequisites:** The prerequisite for this course is at least a C in Math 625.

**Course Goals:** This is the second part of a two course sequence that studies groups, rings, modules, and fields. The focus is on rings, modules, and fields, including division rings, integral domains, polynomial rings, and finite fields. In addition, ring homomorphisms, irreducibility criteria, and field extensions will be studied.

### Syllabus:

CHAPTERS	TOPICS
Chapter III	Rings
Chapter IV	Modules
Chapter V	Fields and Galois Theory

**Calculator policy:** No calculators allowed on exams.

**Examination policies:** There will be two in-class exams. **Dates:** Wednesday, February 22nd; and Wednesday, April 5th.

**Homework policies:** There will be regular homework assignments, due weekly. The homework content is the basis for the tests.

**Grading policies:** Homework: 25%, Tests: 25% ea., Final: 25%.

**NO MAKE-UP EXAMS WILL BE GIVEN**, but your lowest test score will be replaced by the final exam score. Grades will be determined as follows. A: 100% - 93%, A-: 92%-90%, B+: 89%-87%, B: 86% - 83%, B-: 82%-80%, C+: 79%-77%, C: 76% - 73%, C-: 72%-70%, D: 69%-60%, and F: 59% - 0%.

**Final exam date:** Wednesday, May 10th from noon-3:00pm.

### **Holistic grade view:**

- An **A** is earned by an individual who has synthesized the course material, has demonstrated his/her knowledge, and has given full support to any claims made.
- A **B** is earned by an individual who has understood the majority of the topics and has presented the work correctly and in a clear manner.
- A **C** is earned by an individual who has understood just the basics and essentially does the minimum required.
- A **D** is earned by an individual whose work, to some extent, misses the point of the course or is poorly presented. Work that totally misses the point, in either understanding or presentation, earns an **F**.

### **Very Important:**

- (1) Any person who must miss a scheduled test because of an official university function must reschedule with the instructor to take the exam at a time BEFORE the exam is scheduled to be given. NO OTHER rescheduling will be allowed. Official documentation must be provided.
- (2) If a test is missed for any reason, a grade of 0 will be given.
- (3) Students must show all work in order to receive credit. Work shown must support answer.
- (4) No late homework will be accepted.
- (5) There will be no extra credit.
- (6) Each student is responsible for all work missed due to absences.
- (7) An "I" grade will not be given without the permission of the Department of Mathematics.
- (8) Any student having three or more final exams scheduled for the same day may arrange with the instructor to take either the 12:00 noon or 7:30pm exam at another time. This the only reason that a final exam may be rescheduled. The student is required to take the final exam at the time scheduled.

**Withdrawals:** The deadline for withdrawal is Friday, March 3rd. After the course withdrawal deadline, courses will be recorded on University records and the W grade will be recorded if the student is not failing the course at the time of withdrawal; otherwise the grade recorded will be an F. After the course withdrawal deadline a student may drop a course only in cases of extreme and unavoidable emergency as determined by the student's academic dean. Dropping the course after the deadline will not be permitted because of dissatisfaction over an expected grade or because of a change of major.

**Academic Needs:** It is the responsibility of any student with a disability who requests a reasonable accommodation to contact the Office of Student Disability Services (915-7128). Documentation from that office with the accommodation request must be provided to the instructor at least three working days prior to the date of the requested accommodation.

### **Academic Honesty:**

The following statement is the policy of the Department of Mathematics regarding cheating:

Offenses: Cheating on any exam, quiz, class work, or homework, theft of exam questions, or possession of exam questions prior to the time for the exam shall all be offenses subject to the appropriate penalties.

Penalties: The penalty for commission of any offense set out above is failure in the course, and subject to the approval of the Chancellor, dismissal or suspension from the University.