LINEAR ALGEBRA II

INSTRUCTOR: Cornelius Pillen
ILB #314 (Enter through ILB #325)
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Web: http://www.southalabama.edu/mathstat/personal_pages/pillen/

CLASS TIME: Monday, Wednesday, Friday 11:15 AM – 12:05 PM in ILB 235.

OFFICE HOURS: Monday and Wednesday 9:00 AM – 11:00 AM, Tuesday and Thursday 2:00 PM – 3:00 PM, and by appointment.

COURSE DESCRIPTION: This course is a continuation of MA 237. Topics include inner product spaces, spectral theorem for symmetric operators, complex vector spaces, and Jordan canonical form. Additional topics may be included as time permits.

COURSE OBJECTIVE: The goal of this course is study more advanced topics of linear algebra. Students will gain a rigorous understanding and working knowledge of the main concepts, theorems and techniques. Mathematical exposition will be emphasized. Students are expected to understand and produce proofs.

PREREQUISITES: MA 237.


COVERAGE: Chapters 5 – 8. Note that some of the topics discussed in this course are not covered by the book.

ATTENDANCE POLICY: Attendance is mandatory. It is the student’s responsibility to work through any course material covered during her/his excused absence.

HOMEWORK: Weekly homework assignments will be given. Late assignments will be accepted only with prior permission by the instructor.

GRADING: Two exams will be given during the term each counting for 20% of the final grade. The tentative exam dates are February 18 and March 31. The comprehensive final exam counts for 30%. The weekly homework assignments make up the remaining 30% of the final grade.

MAKE-UP EXAM: Make-up exams are given only with prior permission by the instructor.

FINAL EXAM: Wednesday, April 30, 10:30 AM – 12:30 PM.

TUTORING LAB: The Department offers a Tutoring Lab in room ILB 456 to all students taking Mathematics and Statistics classes. There is no lab fee. Please check the bulletin board outside ILB 325 for details.

DISABILITY: If you have a specific disability that qualifies you for academic accommodations, please notify the instructor and provide certification from Disability Services (Office of Special Student Services). The Office of Special Students Services is located in the Student Center, Room 270, Phone 460-7212.

NOTE: Students will be notified in writing in case of changes to the syllabus.

If you are having difficulties with the course material or personal reasons prevent you from performing well in this course, please consult with me or the department chair (Dr. Carter) before dropping the course. Last day to drop from a course: April 4.