

- INSTRUCTOR:** **Cornelius Pillen**
ILB #314 (Enter through ILB #325)
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http://www.southalabama.edu/mathstat/personal_pages/pillen/
- CLASS TIME:** Tuesday and Thursday 4:30 PM – 5:45 PM in ILB 360.
- OFFICE HOURS:** Monday and Wednesday 10:30 AM – 12:00 Noon, Tuesday and Thursday 11:00 AM – 12:00 Noon, **and by appointment.**
- COURSE OBJECTIVE:** The goal of this course is to familiarize the student with several number theoretic facts and techniques and to help the student experience both the pleasure of experimentation and the thrill of discovery. Moreover students are expected to understand and construct proofs. By presenting a variety of accessible topics, the course not only gives an overview of the nature and utility of number theory but also shows some of its beauty.
- COURSE CONTENT:** This course gives an introduction to classical number theory and computation. Topics include mathematical induction, divisibility, prime numbers, fundamental theorem of arithmetic, diophantine equations, theory of congruences, number theoretic functions, and continued fractions.
- PREREQUISITES:** MA 126.
- TEXT:** *Elementary Number Theory*, by David M. Burton (6th Edition).
- COVERAGE:** Most of Sections 1 – 7, Selected Topics from Sections 8 – 15.
- ATTENDANCE POLICY:** Attendance is mandatory. It is the student's responsibility to sign the class roll for each class attended and 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 September 29 and November 10. The comprehensive final exam counts for 30%. The weekly homework assignments make up the remaining 30% of the final grade.
- MAKE-UP EXAMS:** Make-up exams are given only with prior permission by the instructor.
- FINAL EXAM:** **Tuesday, December 8, 3:30 PM – 5:30 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 in ILB 325 for details.
- WITHDRAWAL:** The final drop date is October 23. My goal is for every student to complete the course successfully. Please, speak with me if you are getting behind! Also talk to me before making a final decision to drop – it is easier to pass the course, than you might think.
- 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.

Students will be notified in class and in writing in case of changes to the syllabus.