

## Syllabus MATH 4203 for Fall 2008

- General Information

- MATH 4203 Number Theory
- Faculty Information:  
Scott Dillery  
dillerys@lindsey.edu  
270-384-8105  
Office hours: M 2:00 - 4:00 pm, TR 10:45 - 11:45 am, 2:15 - 3:50 pm, W 10:30 - 11:20 am, 2:00 - 2:50 pm

- Course Information

- Catalogue Description:  
**4203 Number Theory** **3 credit hours**  
Concepts and topics explored in this class include first order axioms, factorization properties, theory of remainders, perfect numbers, diophantine problems, and quadratic residues. *Prerequisite:* MATH 2325.
- Required Text:  
*A Friendly Introduction to Number Theory*, third edition, by Joseph H. Silverman  
Prentice-Hall, Inc., Upper Saddle River, NJ, 2005  
ISBN 10: 0131861379 ISBN 13: 978-0131861374
- Course Objectives:
  - \* To develop students' appreciation for the theory of numbers
  - \* To develop students' abilities to obtain mathematical results through experimentation, pattern recognition, conjecture and proof
- Required Assignments:

Grade Element	Grade Factor
Homework	20%
Midterm Exams	3@15%=45%
Project	15%
Final Exam	20%

An explanation of each of the grade elements follows:

- \* Homework:  
Homework problems will be assigned at each class meeting and through electronic means. These problems will come from the text and from the instructor. The homework will have due dates corresponding to various lengths of time to complete. Homework will be graded on a 4 point basis. A 2 will be awarded for work that shows a basic understanding of the material.
- \* Midterm Exams:  
There will be three midterm exams relatively equally spaced throughout the semester. The exams will be up to 4 points each.
- \* Project:  
Each student is expected to complete an independent project that allows the student to pursue some aspect of the course in greater depth than the lecture and homework. The project will be up to 4 points.

including subsequent follow-up as changes occur; sponsors, directors, and teachers responsible for other activities should notify faculty as far in advance as possible; and

5. Faculty are encouraged to remind students that participation in extracurricular activities (intercollegiate athletics in particular) places additional demands and responsibilities on them and requires that any additional absences be therefore kept to a minimum.

– Makeups:

All requests for exam makeups must be submitted in writing to the instructor. The instructor reserves the right not to grant makeups of any kind for absences not deemed excused by college policy.

– Academic Support:

Academic Success Center

The Academic Success Center offers peer tutoring to aid students in completing class assignments, preparing for exams and improving their understanding of content covered in a particular course. In addition, computers are available for student use. Students are encouraged to utilize this Center as a resource for improving study strategies and reading techniques. The Center also offers assistance with other academic problems resulting from documented learning disabilities. All services are free of charge to all Lindsey Wilson College students (students with learning disabilities are responsible for providing documentation from an appropriate outside professional source such as a professional evaluation or school IEP). Please contact Jan Green, Tutor Coordinator at 384 - 8037 for further information and assistance.

Writing Center and Mathematics Center

The Writing Center (located in the Slider Humanities & Fine Arts Building), and the Mathematics Center (located in the Fugitte Science Building) are available for specialized tutoring at no charge to students. Please contact Allison Smith, Writing Center Coordinator, at 384-8209 or Linda Kessler, Math Tutor Coordinator, at 384-8115 for further information and assistance.

– Academic Integrity:

Academic integrity is essential to the existence of an academic community. Every student is responsible for fostering a culture of academic honesty, and for maintaining the integrity and academic reputation of Lindsey Wilson College. Maintaining a culture that supports learning and growth requires that each student make a commitment to the fundamental academic values: honesty, integrity, responsibility, trust, respect for self and others, fairness and justice.

To foster commitment to academic integrity, faculty are asked to require each student to place and sign the following Honor Code on tests, exams and other assignments as appropriate.: On my honor as a student, I have neither given nor received any unauthorized aid on this assignment/exam.

Violations of the academic integrity policy include cheating, plagiarism or lying about academic matters. Plagiarism is defined as any use of another writer's words, concepts, or sequence of ideas without acknowledging that writer by the use of proper documentation. Not only the direct quotation of another writer's words, but also any paraphrase or summary of another writer's concepts or ideas without documentation is plagiarizing that writer's materials. Academic dishonesty is a profoundly serious offense because it

requests for early finals must be made in person to the Academic Affairs Office.

– Cell Phone Policy:

Student cell phones will be off during class time unless prior arrangement is made with the instructor.

• Course Topics, Assignments, and Exams

– Course content:

We will cover approximately half of the sections of the text. The specific sections will depend on the interest of the students.

– Important Dates:

August 18, 2008 - AIM classes begin

August 20, 2008 - Day classes begin

August 26, 2008 - Last day to register or add a class

September 1, 2008 - Labor Day Holiday (No Classes)

September 3, 2008 - Opening Convocation

September 19-20, 2008 - Family Weekend

October 10, 2008 - Midterm grades due

October 13-17, 2008 - Fall break, (No Classes)

November 7-8, 2008 - Homecoming

November 10, 2008 - Last day to drop/withdraw from a class

November 10-14, 2008 - Junior/Senior Advance registration for Spring 2009

November 17-21, 2008 - Freshman/Sophomore Advance registration for Spring 2009

November 27-28, 2008 - Thanksgiving Holiday, (No Classes)

December 5, 2008 - Last day of classes

December 8-12, 2008 - Final Examinations

December 12, 2008 - Fall term ends

December 13, 2008 - Commencement

December 15, 2008 - Final Grades Due