

Syllabus for A&S 100 Section 004
Introduction to Contemporary Mathematics
Fall 2002

Basic Skills Requirement: This course will fulfill the University Studies Basic Skills requirement, and can be followed by PHI 120 and STA 200 to fulfill the Inference requirement. Note, however, that A&S 100 WILL NOT COVER THE PREREQUISITE MATERIAL FOR CALCULUS COURSES.

Course: A&S 100 Section 004, MWF 1–1:50, CP 220

Instructor: Carl Lee

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Office Hours: MWF 2–2:50, and by appointment.

Prerequisites: Two years of high school algebra and a Math ACTE score of 19 or above, or MA 108R, or math placement test.

Text: *Mathematics Beyond the Numbers*, George T. Gilbert and Rhonda L. Hatcher, Wiley, 2000.

Material to be Covered: We will be covering sections 1.1-1.5, 2.1-2.4, 8.1-8.4, 7.1-7.3, 9.1, and 3.1-3.5 of your text. Topics include, but are not limited to Voting Methods, Apportionment, Modular Arithmetic and Check Digits, Polyhedra and Tilings, Alternate Move Games, and the Mathematics of Money. At times during the semester, your instructor may provide you with supplemental material.

Homework and Quizzes: Homework will be assigned on a regular schedule. Late homework will not be accepted (unless it is the result of an officially excused absence). There will

be occasional, possibly unannounced, quizzes, during the semester. Missed quizzes may not be made up (unless this is the result of an officially excused absence).

Certain homework assignments will be designated “Writing Assignments.” These assignments must be **typed**. Any Writing Assignment which is not typed will not be accepted. Writing Assignments will be graded on grammar, organization, and content.

Be aware that not all assigned homework problems will be graded, but answer keys will be available in the math library after the assignment is due. Since you are responsible for all of the assigned problems, not just those which are graded, you should use these keys to check all of your answers. Occasionally, answer keys do contain errors so please ask your instructor about any answer you do not understand.

Finally, most homework assignments include reading assignments. You are expected to read each section **before** coming to class. You are responsible for **all** of the material in the reading whether or not it is discussed in class.

Exams: There will be three in-class exams and a final. Tentatively, the first three exams are scheduled for Wednesday 25 September 2002, Wednesday 23 October 2002, and Wednesday 20 November 2002. Please see the Fall 2002 Course Schedule Book to determine the day and time of your final exam.

Grading:

Homework and Quizzes	150
Three Exams	300
Final Exam	150
Total	600 points

A	540–600 points
B	480–539
C	420–479
D	360–419
E	0–359

The University of Kentucky *Bulletin* explains: Grade A represents exceptionally high achievement as a result of aptitude, effort, and intellectual initiative. Grade B represents a high

achievement as a result of ability and effort. Grade C represents average achievement. Grade D represents the minimum passing grade. Grade E represents unsatisfactory performance and indicates failure in the course.

University Studies Program: A&S 100 is part of the University Studies Program. As such, it has a writing component. Students will be expected to write coherently on assignments and exams.

Working Together: It is ok to work together on homework. However, when it comes time for you to write up the solutions, I expect you to do this completely on your own, and it would be best for your own understanding if you put aside your notes from the discussions with your classmates and wrote up the solutions entirely from scratch. Working together on exams, of course, is expressly forbidden.

Calculator: Students may use a graphing calculator on exams and homework, but the instructor reserves the right to clear the memory of any calculator during an exam. Any attempt to store notes in the memory of the calculator for an exam will be considered cheating.

Absences: You are expected to attend every class. If you are not able to turn in a homework assignment, take a quiz, or take an exam because of an unexcused absence, you will not be able to turn the homework in late or take the quiz or exam. A University excuse from a scheduled class activity such as an exam must be presented in writing no later than two weeks prior to the date of the absence. An absence due to illness or family emergency may be excused, provided that you can supply acceptable written evidence if required, and that you notify the lecturer or the teaching assistant *as soon as possible*. Notification is almost always possible immediately upon occurrence of an emergency. If you're too sick to telephone, you can get a friend to do it. Failure to make such timely notification may result in denial of your request. For an explanation of valid excused absences, refer to U.K.'s *Student Rights and Responsibilities*, <http://www.uky.edu/StudentAffairs/Code/part2.html>.

Cheating: The University's *minimum penalty* for cheating or plagiarism is *a failure in the course*. Cheating or plagiarism can lead to expulsion from the university. See *Student Rights and Responsibilities*, <http://www.uky.edu/StudentAffairs/Code/part2.html>, for information on cheating, plagiarism, and penalties. It's not worth it, so don't do it.

Expectations: I expect that everyone will maintain a classroom conducive to learning. I like an informal atmosphere, but it must be orderly. Thus, everyone is expected to behave