

# Math 113 Mathematical Reasoning Departmental Syllabus

Spring 2008

## Section 11

MWF 9:05-9:55

Ayres Hall 102

Instructor: Dr. Heather Finotti

Office: Ayres 303

Office Phone: 974-4302 (email is more reliable, especially if you want a quick response)

Office Hours: 10-11 am or by appointment

Email: heather@math.utk.edu

Website: <http://www.math.utk.edu/~heather/113Math.html>

**Course Description:** Classical and modern topics in number theory, logic, geometry, and probability with emphasis on problem solving. Consumer mathematics and other real-world applications. (*QR*) 3 credit hours.

**Text:** *The Heart of Mathematic*, by Burger and Starbird, Second Edition, Key College Press.

**Textbook Companion Website:** [www.heartofmath.com](http://www.heartofmath.com).

**Calculator:** A scientific calculator is required for the course. Any calculator that has a  $\wedge$  key is acceptable. You can not use the calculator built into your phone.

**Grades:** Grades will be determined using the grading scale below. Your letter grade is a measure of your mastery of course material and your fulfillment of course objectives. The Written Assignments category will evaluate work you have completed outside of class, including problem sets and other written assignments. These assignments will be graded primarily on the basis of their quality, either by evaluating the work itself or by quizzing selected aspects of it. The “other” category will consist of minor assignments, attendance, effort, or participation.

Assessment	% of grade	Points	Letter grade	Point range
Midterm Exam Total (4 midterm exams)	50%	240	A B+	432–480 408–431
Written Assignments	25%	120	B	384–407
Other	4.2%	20	C+	360–383
Final Exam	20.8%	100	C D	336–359 288–336
Total	100%	480	F	0-287

**Written Assignments:** These will be comprised of your written homework sets, which will be collected weekly, and of group homework sets, both of which are listed on the course website at [www.math.utk.edu/~heather/113Homework.html](http://www.math.utk.edu/~heather/113Homework.html).

Go to [www.math.utk.edu/~heather/grouphomework.pdf](http://www.math.utk.edu/~heather/grouphomework.pdf) for group homework guidelines and instructions. The class will form groups of four, with at most two groups of three. For those groups of three, the jobs of Manager and Quality Controller will be merged into one position.

The homework will be scored by section. Each section will be worth 8 points, and the lowest two section scores will be dropped (since there are 23 sections, this gives a total of  $21 \times 8 = 168$  points). Each group homework will be worth 12 points, and the lowest one will be dropped (seven group works total gives  $6 \times 12 = 72$  points). As a result, your number of total possible points will be out of 240 points. To compute your written assignments score at the end of the semester (out of 120 points), divide the total number of points you have accumulated through individual or group homework by two, after dropping the appropriate low scores.

**Final Exam:** The comprehensive final exam date and time: 8am-10am, Monday, May 5, 2008

All students are required to take the final exam.

**Other:** Reading Quizzes! We will have 10 random reading quizzes at the beginning of the class period (each worth 2 points). You will be expected to read the sections that we will be covering in class **before** coming to class. I have seen that reading the section before coming to lecture can have an enormous effect on what you are able to get out of lecture and how much material you are able to retain over a long period of time. It is such a huge help to yourself to get into this habit, so this is my way of trying to help you all develop this wonderful habit. These quizzes will not test understanding exactly, but test whether or not you have read the section and have a familiarity with what we are going to cover that day.

**Attendance & Make-up Policy:** Attendance will not be taken, however attendance is expected. It is incredibly rare that a student can pass a math course without regular attendance to the lecture, so keep this in mind. There will be **no make-up quizzes or written assignments** and **late work will not be accepted**, however the lowest two section scores for homework and the lowest group homework score will be dropped.

Make-up exams will only be given in cases of extreme circumstances (illness, death of a family member, etc), and will only be given in the event that you can provide proof of these circumstances (a doctor's note, an obituary announcement, etc). If you are participating in a University athletic team, band, or something of this sort and will be traveling on the day of an exam, please bring this to my attention in the beginning of the semester.

**Disability Services:** If you need course adaptations or accommodations because of a documented disability or if you have emergency information to share, please contact the Office of Disability Services at Dunford Hall at 974-6087.

**Math Tutorial Center:** The Math Tutorial Center is in Ayres Hall room 322. It provides **free tutoring**. Hours of operation are posted at <http://www.math.utk.edu/MTC/>. Please make use of this free service.

**Classroom Etiquette:** Please be considerate of the instructor and those around you. Come to class on time and stay the entire period. Turn off cell phones and beepers during class. Do not talk to classmates in inappropriate times. Do not read newspapers or working on other coursework during class. I will expect active participation in class, so come prepared and ready to think!

**Academic Standards of Conduct:**

All students are expected to abide by the University **Honor Statement**. In mathematics classes, violations of the honor statement include copying another person's work on any graded assignment or test, collaborating on a graded assignment without the instructor's approval, using unauthorized "cheat sheets" or technical devices such as calculators, cell phones or computers for graded tests or assignments, or other infractions listed in "*Hilltopics*". These violations are serious offenses, subject to disciplinary action that may include failure in a course and/or dismissal from the University. The instructor has full authority to suspend a student from his/her class, to assign an "F" in an exercise or examination, or to assign an "F" in the course. See "*Hilltopics*" for more complete information. A report of all offenses will be sent to appropriate deans and the Office Student Judicial Affairs for possible further action.

**The Honor Statement**

*An essential feature of the University of Tennessee is a commitment to maintaining an atmosphere of intellectual integrity and academic honesty. As a student of the University, I pledge that I will neither knowingly give nor receive any inappropriate assistance in academic work, thus affirming my own personal commitment to honor and integrity.*

**Please note that all exam dates below may change as the semester progresses!**

<b>Important Dates:</b>	
Add/drop without W deadline	January 18
Exam 1	February 1(tentative)
Exam 2	February 18(tentative)
Drop with W deadline	February 19
Exam 3	March 12 (tentative)
Drop with WP/WF deadline	April 1
Exam 4	April 14 (tentative)
Final Exam	May 5, 8am-10am