

## Math 104 – Fall 2003 Tentative Syllabus

Course: Math 104 – Pre-calculus  
Instructor: Dr. Mitchell Anderson  
Office: CH8-B Hrs: 12-1 MWF and by appt.  
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Text: Precalculus, Fourth Edition, Stewart, et. al.  
Material: TI-83 Graphing Calculator (Required)  
Free Tutoring: CH-6

Math 104 is designed to be a preparation for Calculus, and, as such the course will be organized with that in mind. You should note that there is a distinct difference between the mathematics generally presented in high school and the mathematics of Calculus and beyond. For this reason, your learning style may need to adjust to new demands. In particular, lower level mathematics can be characterized as manipulation-based, requiring much repetitiveness in order for the student to acquire very specific manipulation skills. Calculus, on the other hand, can best be characterized in terms of concepts. While there are necessary skills that must be mastered by the student in order to apply those concepts, it is equally or more important to *understand* the concepts. Given today's advancing technological capabilities, more and more of the manipulation-type skills are being performed by computers. This is not to say that students can mindlessly rely on computers to do their work, but rather, students are released from performing the more mundane tasks and can spend their time concentrating on trying to truly understand the concepts. For some students this will be a blessing, requiring less work than in the past. For others, it will be more of a challenge.

A TI-83 Graphing Calculator (or similar model) is required for this course, and will be used throughout, including exams. Your final grade for this course will be based on the percentage of points you earn on the 3 exams (300 pts), the final exam (150 pts), and any additional assignments such as the group project (50 pts), based on 90% A, 80% B, etc. A final word of caution: a standard university course requires 2 hours of homework for every 50 minutes in class. Thus, a concerted effort on your part will be required, particularly considering that this is a 4-credit course. There is free tutoring available in CH-5. Many students in the past have found it very useful to spend regular hours in the lab, doing their homework, meeting with others in the class, etc. I will do everything I can to help you through the course, but there is no substitution for time spent on homework. Good luck!

### Course Objectives

Please see detailed accompanying document.

**Disability Statement:** Any student with a documented disability who would like to request accommodations should contact the University Disability Services Office - Campus Center Rm 311, 933-0816 (V), 933-3334 (TTY) - as early in the semester as possible.

Week Beginning	Sec.	Assignments
25 Aug	2.1-2.2	p. 131 #130, p140 22, 24 p152 25,30,35,38,50-69, p165 1-9, 53-65 Handout Greene Hilly Assignment
1 Sep Holiday (Labor Day)	2.4 – 2.5	p182 7,15-19,23,33 p194 11,21,45,55 Fri. GH Due
8 Sep 12 Sep Last day to exercise CR/NC option	2.6, 2.8	p. 204 #39-40, 47-53, p.214 #11-17,25,29,35, p.225 # 17-21, 23-28,45,55 (Handout: Group Project – Amusement Park)
15 Sep	2.9	p.236 #23-25,68b Test 1 (F)
22 Sep	3.1-3.3, 3.5	p.269 #11-20,37-42, p.278 #1-3,39,45-48, p.287 # 1-9,14,33-39,51-55,75 p.307 # 39-45
29 Sep	3.6-4.1	p321 #25-42, p.343 #9-27,33,48 Supplement - Rational
6 Oct	4.2-4.4	p.356 #23-30,39-40,59 p.372 #27-50,57,65,69-76 Supplement Exp. (Amusement Park due on Friday)
13 Oct 17 Oct Last Day to Withdraw	4.5	p.388 #17, p.393 all Test 2 (Thursday)
20 Oct	5.1-5.2	p.416 #9,13-2243-46 p.426 #1-21, 35-42,47-71,
27 Oct	5.3-5.4, 6.1	p.439 #21-40,47,55,57 p.480 1-16,43,51,54,
3 Nov	6.2-6.4	p.489 #17-22,29-31, 37,41 p501 #35-40,41-48, p. 510 #15-27
10 Nov 11 Nov Holiday (Veteran's Day)	6.5	p.518 #9-18 Test 3 (F)
17 Nov	7.1-7.3	p. 540 #23-63, p548 #19-24, p. 557 #1-7,35-40
24 Nov 27 Nov Holiday (Thanksgiving)	7.4-7.5	p. 567 #1-8, 29-48 p.579 #1-54,65,67,
1 Dec	7.5, 9.8	p794 #3,6,7,14,15,47-50
8 Dec 11 Dec (Thursday – Last Day of Instruction)	9.8	Review
17 Dec Wed 2:00–4:00		Cumulative Final Exam