Syllabus – Math 205 – Summer 2009

Instructor: Dr. James Ruffo
Office: 329 Fitzelle Hall
Phone: 607.436.3653
email: ruffojv@oneonta.edu
webpage: http://employees.oneonta.edu/ruffojv/sum09/205
Office Hours: To be announced

Time: Monday-Friday 10:10-12:10
Room: 301 Fitzelle Hall
Text: *Discrete and Combinatorial Mathematics, 5th edition*,
R. Grimaldi, Pearson

Catalog Description: An introduction to topics in discrete structures. Topics include
set theory, combinatorics, logic, proof techniques, functions, relations, pigeonhole principle,
equivalence relations, recurrence and recursion, graphs and trees, number theory. Optional
topics may include applications of combinatorics and graph theory.

Goals: Develop mastery of the most basic and essential ideas of rigorous mathematics,
and an understanding of the various topics of discrete mathematics, as listed in the course
description above. Through the completion of homework assignments, quizzes and exams,
students will achieve the following:

- Enhance abstract and critical reasoning skills.
- Communicate mathematical ideas effectively.
- Demonstrate an understanding of key mathematical concepts.

SUNY General Education Attributes: LA

SUNY Learning Outcome: Students will show competence in the following quantitative
reasoning skills: arithmetic, algebra, geometry, data analysis, and quantitative reasoning.

Grading Policy: Your grade will be determined by the following:

- Two midterm exams, each worth 20% of your grade.
- The final exam, cumulative and worth 20% of your grade.
- Quizzes (in-class and take-home), 30% of your grade.
- Homework, 10% of your grade. This will be assigned and collected daily.

Your final grade will be assigned according to the following scheme:
Course Outline: We will cover selected topics from the first seven chapters of the text. Below is a tentative schedule.

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Attendance: Please come to class regularly and on time. Any material missed due to an unexcused absence is the responsibility of the student.

Students missing 25% or more of class, any time from the second week of class up until the last day to withdraw from an individual course may be removed from the course by the instructor.

A word of advice: The best way to learn mathematics (or anything else) is to actively engage in the subject, by working out problems and discussing ideas with others. You are strongly encouraged to use our time together in class for this purpose. Read the relevant sections of the book before we cover it in class, so that you can ask questions.