MATH 3134: Applied Combinatorics
Spring 2017, CRN 15493, MWF 10:10-11:00am, McBryde 231

Instructor: David Lax  Email: dclax@vt.edu
Office: 541 McBryde Hall  Office Hours: T 1:00-5:00pm


Course Description. The objective of this course is develop reasoning skills for problems with discrete structure. The topics covered are divided into two units: enumeration (e.g. permutations, bijections, recurrence relations) and basic graph theory (e.g. paths, circuits, coloring).

Exams. Each unit will have a comprehensive exam. The first exam will be in-class Wed, March 15th. The second exam will be given during the final exam period Friday May 5, 1:05pm-3:05pm.

The final examination is a required class meeting that will not be rescheduled for discretionary reasons, including conflicts with work schedules and with classes and exams at other colleges.

Quizzes. There will be four 25-minute in-class quizzes. Their tentative dates are February 6, February 27, April 3, and April 24.

Homework. Written homework assigned from the course text will be collected and returned in class. While collaboration is encouraged, each student should submit her or his original solution. Select problems will be graded for correctness; the remainder will be graded for completeness. Solutions must be rigorously justified to receive full credit.

No late homework will be accepted under any circumstances. The student’s lowest written homework grade will be dropped.

Course Grades. The course grade will give the following weight to the student assessments:

Comprehensive Unit Exams: 40% (20% per exam), Quizzes: 40% (10% per quiz), Homework: 20%

A final score of 90% will guarantee an A, a grade of 80% will guarantee a B, a grade of 70% will guarantee a C, and a grade of 60% will guarantee a D. The +/- grade modifiers are given at the discretion of the instructor.

Honor Code. The Undergraduate Honor Code pledge that each member of the university community agrees to abide by states: “As a Hokie, I will conduct myself with honor and integrity at all times. I will not lie, cheat, or steal, nor will I accept the actions of those who do.”

Students enrolled in this course are responsible for abiding by the Honor Code. A student who has doubts about how the Honor Code applies to any assignment is responsible for obtaining specific guidance from the course instructor before submitting the assignment for evaluation. Ignorance of the rules does not exclude any member of the University community from the requirements and expectations of the Honor Code. For additional information about the Honor Code, please visit: https://www.honorsystem.vt.edu/
Accommodation for Students with Disabilities. Any special accommodations must be made through the Services for Students with Disabilities office (http://www.ssd.vt.edu/).

Tutoring Resources. The VT Math Department maintains information on tutoring resources on their website (http://www.math.vt.edu/people/schmalej/tutors/home.php).