Instructor: Bill Kinnersley
Office: Lippitt 101B Office phone: (401) 874-2989
Office hours: Mon. 2-4 PM, Thurs. 2-4 PM Email: billk@uri.edu

Course Website: This course will use Sakai. The Sakai site will contain lecture notes, homework assignments, and administrative announcements. Check it often!

Course Content: Fundamental counting techniques, generating functions, recurrence relations, inclusion-exclusion, Ramsey theory, partial orders, finite set systems, and combinatorial designs.

Classroom Conduct: The classroom is a place for learning. While you are in class, I expect you to remain focused on the course material, and also to maintain an environment in which other students can do the same. In particular:

- Laptops and tablets can be useful for taking notes or for annotating electronic copies of the provided lecture notes. However, they can also be major distractions. Avoid the temptation to browse Facebook, etc. during class! This is distracting not only to you, but also to other students sitting nearby. Use of laptops or tablets for any purpose other than note-taking will not be permitted.

- Cell phones should be muted and stored away at all times during class. Ringing (and even vibrating) phones are disruptive. Texting during class is flat-out disrespectful.

- All in-class discussion must pertain to the course material. Off-topic chatter can be very distracting to other students.

Textbook: The textbook for this course is *Applied Combinatorics*, 2nd ed., CRC Press, by Roberts and Tesman. (Note that there is also an *Applied Combinatorics*, 2nd ed. published by Prentice Hall; this is actually a different book.)

Evaluation: The course grade will be based on homework, one midterm exam, and a final exam, weighted as follows:

- Homework: 50%
- Midterm exam: 20%
- Final exam: 30%

Scores will be posted in the Sakai gradebook.
**Homework:** Homework will be posted on Sakai every Thursday (except during the week of the midterm) and will be collected in class on the following Thursday. *Please start work on the homework early!*

Late homework will be accepted until the next class after the due date, at a penalty of ten percentage points per business day late.

It is strongly recommended, though not required, that you typeset your homework using LaTeX. Typesetting your homework makes it easier for you to correct mistakes and makes it easier for me to read your work. In addition, many of the graduate mathematics courses at URI *do* require that homework be typeset, so you’ll probably have to learn LaTeX at some point – might as well do it now!

**Homework Collaboration Policy:** You may discuss homework problems with your classmates. However, you must write up your solutions *by yourself.*

**Midterm Exam:** There will be one midterm exam, tentatively scheduled for Tuesday, March 8. The date of the exam will be confirmed in class and on Sakai at least a week in advance. The exam will be held in class.

**Final Exam:** The final exam will be Thursday, May 5, 8 - 11 AM.

**Calculator Policy:** You may not use calculators on exams, but you probably wouldn’t find them very helpful anyway.

**Absence Policy:** If you miss any evaluation due to illness or emergency, you must contact me – in person, by phone, or through email – *within 24 hours.* Under most circumstances, absences must be documented.

If you know that you will need to miss an evaluation due to religious observances or University-sanctioned events, you must contact me at least *one week* before the relevant evaluation.

**Accommodations:** If you require accommodations and have documentation from Disability Services (874-2098), please get in touch with me as soon as possible.

**Academic Integrity:** Cheating is prohibited in all aspects of the course. Cheating includes but is not limited to: copying another student’s homework solutions, communication with other students during an exam, reading another student’s written work during an exam, and use of any electronic device (including calculators) during an exam. I take cheating very seriously; *any* cheating will result in severe consequences.