

# Discrete Mathematics Syllabus Spring 2026

## Instructor Information

**Instructor Name:** Tsui, Man Cheung

**Office:** Robinson Hall, Room 228B

**Office Hours:** Tuesday 4 PM–6 PM & Thursday 5 PM–6 PM, or by appointment

**Email:** [tsui@rowan.edu](mailto:tsui@rowan.edu)

## Course Information for Section 3

**Website for Notes and Problems:** <https://manctsui.github.io/2026s/3150/>

**Website for grades:** <https://canvas.rowan.edu/courses/7926842>

**Meeting Times:** Tuesdays & Thursdays 11AM–12:15PM in James Hall 2102

**Textbook:** None.

**Course Description:** This course surveys discrete mathematics topics appropriate as introduction for students of mathematics and computer science.

**Course Objectives:** Upon successful completion of this course, students will be able to:

- Use correct set-theoretic terminology and notation, including set-builder notation.
- Perform operations on sets, such as unions, intersections, and complements.
- Construct truth tables for logical statements.
- Apply counting principles to solve counting problems in combinatorics.
- Perform computations modulo positive integers.

## Tentative Schedule of Topics

1. **Numbers:** Number bases, divisibility, modular arithmetic
2. **Sets and combinatorics:** Sets, cardinality, Venn diagrams, sum and product rules, inclusion-exclusion principle, permutations and combinations.
3. **Logic:** Propositional logic, truth tables, logical equivalences, tautologies and contradictions, predicate logic and quantifiers, Boolean algebra
4. **Relations and functions:** relations, equivalence relations, functions, bijections, composition of functions, inverse functions, recursion, rate of growth
5. **Graphs:** Graphs, Graph isomorphisms, Euler walks, vertex coloring, planar graphs

## Grades

Your course grade is given by  $0.15a + 0.25c + \sum_{i=1}^3 0.2 \max(b_i, c)$ , where:

Grade	Category	Date
$a$	Quiz (lowest two dropped)	Thursdays near end of class
$b_1$	Exam 1	Thursday, February 20, 2026
$b_2$	Exam 2	Thursday, March 19, 2026

Grade	Category	Date
<i>b<sub>3</sub></i>	Exam 3	Thursday, April 17, 2026
<i>c</i>	Final Exam (cumulative)	Tuesday, May 5, 2026 at 10:15AM–12:15PM

**Cheatsheets** — two detached sheets of A4 paper (8.3 × 11.7 inches) are allowed on quizzes and exams. You can write, type, print, put images on the front and back. No books. No electronic devices (calculator, phone, etc.).

**Make up exam and quiz** is normally not allowed. A missed test or quiz may be excused if the student gives sufficient verifiable evidence of acceptable extenuating circumstances. Unexcused missed exams or quizzes will result in a grade of zero. Students must bring their Rowan ID card to all exams.

## Student Accommodation Policy

Your academic success is important. If you have a documented disability that may have an impact upon your work in this class, please contact me. Students must schedule their exams in the **Testing Center** if they are eligible to receive extra time per their accommodations and wish to use this accommodation for a given assessment. Students **must provide** documentation of their disability to **Accessibility Services** in order to receive official University services and accommodations. Accessibility Services can be reached at (856) 256-4259 and is located in the Office of Accessibility Services in Savitz Hall, Suite 237. The staff is available to answer questions regarding accommodations or assist you in your pursuit of accommodations.

See <https://confluence.rowan.edu/display/POLICY/Accommodation+Policy> for the full policy.

## Classroom Behavior Policy

Please behave.

See <https://confluence.rowan.edu/display/POLICY/Classroom+Behavior> for the full policy.

## Academic Integrity Policy

Familiarize yourself with Rowan University's Academic Integrity Policy, including the types of violations and subsequent penalties. Violations of the academic integrity policy include plagiarism, which occurs when copying information or ideas from published and unpublished sources without correctly citing the source. Accessing prohibited resources during assignments, receiving unauthorized assistance, and posting course materials online are all considered violations. Students committing any act of academic dishonesty may fail the assignment, fail the course, or face other sanctions. Work with your instructor on any questions regarding how academic integrity applies in a given course or assignment and please review the resources available at [go.rowan.edu/academicintegrity](http://go.rowan.edu/academicintegrity). Ensuring that your learning is genuine is the key to your future success and your integrity.

See <https://confluence.rowan.edu/display/POLICY/Academic+Integrity+Policy> for the full policy.

## Laptop Computers in the Classroom (Mobile Device Policy)

Permissible unless it distracts other students or the instructor.

See <https://confluence.rowan.edu/display/POLICY/Mobile+Electronic+Device+Policy> for the full policy.

## University Attendance Policy

University policy requires students to regularly attend class.

See <https://confluence.rowan.edu/display/POLICY/Attendance+Policy> for exceptions and the full policy.

## Title IX- Sexual Harassment/Sexual Assault and Sex Discrimination Reporting

Rowan University is committed to ensuring a safe and productive educational environment for all students. Title IX makes it clear that sexual misconduct and harassment based on sex is a Civil Rights offense subject to the same kinds of accountability and support applied to offenses against protected categories such as race, national origin, etc.

University faculty and staff members must report any sexual misconduct or harassment to the University's Title IX Coordinator to provide the appropriate resources and support options. Please report any incidents of sexual misconduct and harassment via the linked Student Sexual Misconduct/Title IX Reporting Form ([https://cm.maxient.com/reportingform.php?RowanUniv&layout\\_id=17](https://cm.maxient.com/reportingform.php?RowanUniv&layout_id=17))

As your professor, I am required to report any incidents of sexual misconduct and harassment that are directly reported to me or of which I am made aware. See Rowan's Title IX Sexual Harassment/Sexual Assault Policy and Student Sexual Misconduct and Harassment Policy.

### Pregnant & Parenting Students:

Rowan University does not discriminate against any student based on pregnancy or related conditions. The Title IX Coordinator can coordinate specific actions to prevent sex discrimination and ensure a student's equal access to Rowan's education programs and activities. If you are a pregnant or parenting student, please contact the Title IX Coordinator for additional information and resources.

### Contact Information:

- Title IX Coordinator: Brandy Bennett, Office of Student Equity and Compliance
- Location: Hawthorne Hall, 856-256-5440
- Email: [TitleIXCoordinator@rowan.edu](mailto:TitleIXCoordinator@rowan.edu)
- Website: To learn more about Title IX, go to Title IX Regulations & Sexual Misconduct (<https://sites.rowan.edu/osec/ix-reporting1.html>)

## Discrimination and Harassment Reporting and Title VI

Rowan University prohibits discrimination under the University's Policy Prohibiting Discrimination in the Workplace and Educational Environment

(<https://confluence.rowan.edu/display/POLICY/Policy+Prohibiting+Discrimination+in+the+Workplace+and+Educational+Environment>). Please report any incidents of discrimination and harassment via this linked Reporting Form for Discrimination/Harassment/Retaliation ([https://cm.maxient.com/reportingform.php?RowanUniv&layout\\_id=16](https://cm.maxient.com/reportingform.php?RowanUniv&layout_id=16)).

As your professor, I must report any incidents of discrimination and harassment directly reported to me or of which I am made aware. To learn more about Title VI, go to Reporting Student Discrimination, Harassment and Retaliation (<https://sites.rowan.edu/osec/discrimination-harassment-retaliation.html>).

Please see the available resources below:

- **Confidential Resources:**

- The Wellness Center, Winans Hall, 856-256-4333, [www.rowan.edu/wellness](http://www.rowan.edu/wellness)

- **Non-Confidential Resources:**

- Office of Student Equity and Compliance, Hawthorne Hall, 856-256-5830.
- Rowan University Police Department, Bole Annex, 856-256-4911.