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# Combinatorics

Northern Michigan University

Winter 2021

## Course Instructor

Daniel Rowe  
darowe@nmu.edu  
[euclid.nmu.edu/~darowe/](http://euclid.nmu.edu/~darowe/)

## Learning Outcomes

Combinatorics and applied abstract algebra, including enumeration, counting, sorting, searching, and graph algorithms.

## Course Meeting Times

ma340-01  
MWRF 12:00-12:50  
WEST 3801  
[live-stream](#)

## Course Webpage

[http://euclid.nmu.edu/~darowe/w21\\_ma340.html](http://euclid.nmu.edu/~darowe/w21_ma340.html)

## Textbook

Ian Anderson, *A First Course in Discrete Mathematics*, Springer, 2001.

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## Grade Categories and Weights

Problem Sets	40%
Tests	30%
Final	30%

## Calculating Your Grade

Each graded item may be out of different point totals, *i.e.* /70, /120, but they are converted to percentages /100, that are rounded up to the nearest percentage point in your favor.

For example, suppose it is sometime mid-semester, and you have the following raw scores: Problem Set 1 (35/50), Problem Set 2 (100/120), Problem Set 3 (73/90), Test 1 (36/50).

- Problem Set 1  $\rightsquigarrow$  70/100
- Problem Set 2  $\rightsquigarrow$  84/100
- Problem Set 3  $\rightsquigarrow$  82/100
- Current *Problem Set* Grade: 236/300
- Test 1  $\rightsquigarrow$  72/100
- Current *Test* Grade: 72/100
- Current *Course* Grade:  $(236/300) \times 40 + (72/100) \times 30 \approx 53.1$  out of 70 total points thus far, so a current course grade of  $\rightsquigarrow$  75.9% (C+).

## Grade Scale

92-100%	A
90-91%	A-
86-89%	B+
82-85%	B
80-81%	B-
76-79%	C+
72-75%	C
70-71%	C-
66-69%	D+
62-65%	D
60-61%	D-
0-59%	F

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**Late Policy**

All submissions of your work will be electronic, and they will have very clear due dates. My late policy will be exponential ( $-5 \cdot 2^{n-1}$  %), capping out at  $-60\%$ , i.e.  $-5\%$  one day late,  $-10\%$  two days late,  $-20\%$  three days late,  $-40\%$  four days late, and  $-60\%$  five days late and thereafter.

**Accessibility**

If you have a need for disability-related accommodations or services, please inform the *Coordinator of Disability Services* in the Dean of Students Office at 2001 C. B. Hedgcock Building (906-227-1737 or [disserv@nmu.edu](mailto:disserv@nmu.edu)). Reasonable and effective accommodations and services will be provided to students if requests are made in a timely manner, with appropriate documentation, in accordance with federal, state, and University guidelines.

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