Combinatorics and Graph Theory	Professor J. Lawrence
MATH 641	Exploratory Hall, room $2^2 \times 1051$
Fall, 2017	Tele. 703-993-1466
TR 4:30–5:45	Office hours: TR $3:30-4:00$,
Exploratory Hall, 4106	and by appointment
	lawrence@gmu.edu

Course web pages: http://math.gmu.edu/~lawrence/m641/m641.htm

Text: Combinatorics: Topics, Techniques, Algorithms, by P. J. Cameron, Cambridge University Press, 1994.

The course will cover (at least some of) the following **topics**, including some of the material from the indicated chapters of the text and some additional material, as time permits.

Basic combinatorics (3, 4, 5).

Graph theory (10, 11, 18).

Configurations (6, 7, 8, 9, 16, 17).

Posets, lattices, matroids, valuations on lattices, oriented matroids (5, 12).

Enumeration (3, 4, 5, 13, 14, 15).

Required work: Two mid-term tests; homework; the final exam.

Your final numerical course grade will be based on homework and/or inclass participation and your test grades. These will be averaged to yield your final course grade, with the following weights: first and second tests and the final exam—30% each; other—10%.