Discrete Mathematical Structures I
MWF 10:10–11:01 Martin M102

Wayne Goddard
McAdams 311 (not Martin)
goddard@clemson.edu

Office Hours. Tuesday and Thursday 11am–2pm

Content. An introduction to discrete (and algebraic) mathematics and its applications. Topics include: counting, proofs, number theory, sequences, graphs, and codes.

Goals/Learning Outcomes. These are:
will demonstrate knowledge of several areas of discrete mathematics;
will be able to solve problems in mathematics;
will demonstrate ability to execute a few standard algorithms;
will demonstrate knowledge about elementary discrete and algebraic structures;
will be able to create simple proofs;
will demonstrate some knowledge of applications of algebraic or discrete mathematics.

Grade. Your final Numerical mark will be determined by (No substitutions):
• Tests: 40%
• Homework assignments: 14% (one will be dropped)
• Quizzes: 16% (one will be dropped)
• Final exam: 30%
The cut-off for an A will be either 89 and 90, probably the latter. The cut-off for a B will be 80. The cut-off for a C will be somewhere between 68 and 70.

Quizzes. Wednesday 17 Jan and then every Monday thereafter.

Assignments. Approximately 10 assignments; these will typically include problems with a range of difficulty from routine to very challenging. Can work in pairs. Use of the Internet to find solutions or hints, unless otherwise specified, is not permitted.

Tests. Monday 12 February, Wednesday 14 March, and Wednesday 18 April. Cumulative final is Tuesday May 1 at 3pm.

Notes/Text. There is no prescribed or recommended text. We will make use of parts of the notes at people.cs.clemson.edu/~goddard/texts/discreteMath. The textbook by Epp, Discrete Mathematics with Applications (any edition) is somewhat useful. Some handouts archived at people.cs.clemson.edu/~goddard/handouts/math4190.

For more rules and regulations, see reverse. In particular, note academic honesty policy and enforcement of hand-in times.