Office Hours. Tues 9:30-10:30am and Wed 2-3pm and as needed.

Goals/Learning Outcomes. These are:
will demonstrate knowledge of object-oriented programming;
will be able to construct and use classes;
will demonstrate ability to execute a few standard algorithms;
will demonstrate knowledge about multiple data structures;
will be able to create programs of some complexity in C++;
will demonstrate some knowledge of applications of data structures.

Content.
• Tools. order analysis of algorithms, recursion, algorithmic techniques.
• Linear Data Structures. abstract data types, linked lists, stacks, queues.
• Trees. binary trees, traversals, search trees, other trees.
• More Data Structures. dictionaries & priority queues, hash tables, heaps, graphs.
• Programming. C++, programming methodology, constructors/destructors, inheritance, templates.

Grade. Let \( W \) be the weighted average as follows:
• Tests: 30%
• Quizzes: 12%
• Lab grade: 14%
• Three programming assignments: 14% total
• One group written assignment: 4%
• Final exam: 26%

Let \( P \) be the highest programming assignment. Your overall score is the smaller of \( W \) and \( P \). The cut-off for an A will be 89.89. The cut-off for a B will be 80. The cut-off for a C will be 69.

Programming Assignments. These are individual assignments, and must be strictly your own work and are not to be discussed with anyone else except TAs and instructor. Anticipated hand-in dates are: 2 Feb, 6 Mar, and 19 Apr.

Tests. Friday 7 February, Wednesday 11 March, and 15 April.

Quizzes. These will be approximately once a week.

E-learning days. These will be 19 February and 13 March. For such a day, a short task will be posted and for grading purposes will count as a quiz.

Notes/Text. A website is maintained at http://people.cs.clemson.edu/~goddard/handouts/cpsc2120/
No prescribed or recommended book; any C++ data structures textbook can be used for supplementary reading.

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