

CS 1302 Topics (through January 22, 2026)

Topic	Friedman & Koffman (6 th)	Other
1. The software development process	§1.3-1.6	
2. Using an IDE (Quincy)		
3. Format of a program <ul style="list-style-type: none"> a. Comments b. C++ Keywords¹ c. Global const definitions d. #include directives² and using namespaces e. The main function 	§2.1-2.5, 3.1 . . . pp. 54-55 pp. 68, 226-227 pp. 55-56 pp. 56-59	Primer Chapter 1 Primer §1.3 Primer p. 47 Primer §2.4 Primer §1.1-1.2
4. Using an IDE (Quincy) <ul style="list-style-type: none"> a. Compiling and building C++ code in Quincy b. Running a program through Quincy c. Examining files in a Quincy project directory 	In Quincy, click the Help tab and select the Quincy 2005 User's Guide.	
5. Data types (int, double, . . .) ³	§2.3	Primer §2.1
6. Simple input and output: cin and cout	pp. 74-78	Primer §1.2
7. Calling built-in functions <ul style="list-style-type: none"> a. The argument list b. Calling a void function c. Calling a function with a return value 	§3.2	
8. Function definitions for new functions <ul style="list-style-type: none"> a. Providing a new function prototype b. The function heading c. The parameter list d. The arguments match up with parameters e. Locally defined variables f. Return statement (for non-void functions) 	§3.3-3.6	Primer Ch. 6
9. Introduction to the WinBGIm graphics library ⁴	§3.8	
10. Increment (++) and decrement (--) operators	p. 273	Primer p. 11, §4.5
11. Arithmetic operations and expressions	§2.6	Primer §4.1-4.2
12. Assignment statements (=, +=, -=, . . .)	pp. 71-73, 269	Primer p. 11, §4.4
13. Boolean (logical) operations and expressions	§4.2	Primer §4.3
14. If-statements and other branching	Chapter 4	Primer §5.3
15. For-loops and other looping	Chapter 5	Primer §5.4
16. Arrays	§9.1-9.4	
17. Pseudo-random number generators	cppreference.com/w/cpp/numeric/random/rand.html	

¹ Keywords cannot be used for anything but their defined C++ meaning. See the table of all C++ keywords at <https://en.cppreference.com/w/cpp/keywords.html>.

² To find the needed #include directive and namespace for a specific function or other item, type its name in the search box at <https://en.cppreference.com/w/cpp.html>.

³ The float type used in Friedman and Koffman is like the double type that we use, but it has fewer significant digits.

⁴ WinBGIm documentation is included with the Quincy IDE via Help → Programmer's Help → WinBGIm Library.