

COP 2535, Data Structures

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1 Grading

Evaluation Item	Weight	Metrics
Readings	None	Readings are assigned weekly from the text. Completion of the readings is mandatory. Even though the readings are not graded, the material will appear on examinations and quizzes. It is essential to read the text.
Quizzes	15%	Weekly quizzes will cover the assigned readings. These are short answer questions assessed to gauge understanding of the material. Questions will be taken from the Checkpoints in each chapter.
Labs	15%	Labs are assessed on a pass/fail basis. You will receive a grade for a lab after you have notified me that you have completed the lab. Labs cover the data structures portion of the course, and consist of implementation of the supplied C++ programs.
Exercises	30%	Weekly programming exercises will be written in C++. These will be assessed on a pass/fail basis.
Examinations	20%	There will be three examinations, covering the data structures material presented. This will be an individual assessment on an open book open note basis.
Project	20%	Students will complete one programming project for the term. This will be a multi-week project, with four iterations, each consisting of four phases: requirements, design, implementation, and testing.
Evaluation	5%	The class evaluation carries five additional points. Essentially, this constitutes extra credit for submitting your evaluation.
Total	105%	

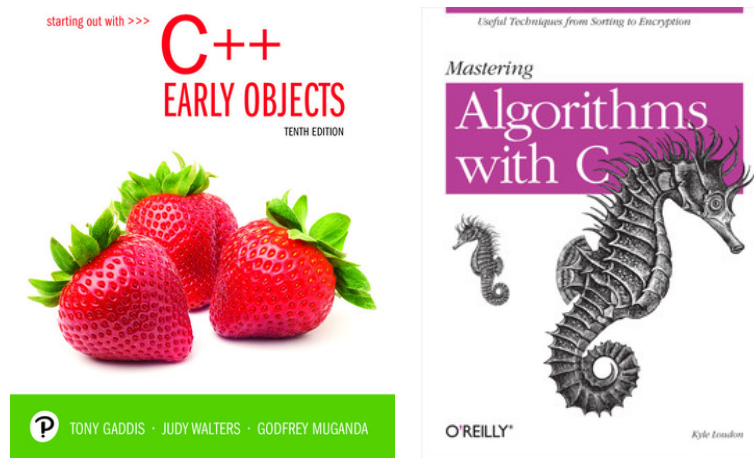
2 Schedule

Due dates are determined by the schedule, shown below. Assignments submitted after the due date are subject to a 100% grade penalty. All assignments are due on Sunday at 2359 hrs./11:59 p.m.. As a general rule, all assignments are due on the day specified. Students are responsible for keeping up with the due dates of all assignments. **Do not fall behind in your deliverables.**

Due Date	Readings	Pages	Project	Exercise	Other
January 15	Chapters 1, 2	78	Iter 1, Requirements	Hello	Lab, Quiz
January 22	Chapter 3	78	Iter 1, Design	Formulas	Lab, Quiz
January 29	Chapter 4	90	Iter 1, Implementation	Recursion	Lab, Quiz
February 5	Chapter 5	80	Iter 1, Testing	Lists	Lab, Quiz
February 12	Chapter 6	84	Iter 2, Requirements		Quiz, Exam 1
February 19	Chapter 7	102	Iter 2, Design	Cards	Lab, Quiz
February 26	Chapter 8	100	Iter 2, Implementation	GuessNum	Lab, Quiz
March 5	Chapters 9, 10	104	Iter 2, Testing	MathGames	Lab, Quiz
March 12	Chapter 11	104	Iter 3, Requirements	Exceptions	Lab, Quiz
March 19	Chapters 12, 13	108	Iter 3, Design		Quiz, Exam 2
March 26	Chapters 14, 15	72	Iter 3, Implementation	MagicNumbers	Lab, Quiz
April 2	Chapter 16	34	Iter 3, Testing	PasswordDict	Lab, Quiz
April 23	Chapter 19	40	Iter 4, Design	HistoryTest 1	Lab, Quiz
April 30	Chapter 20	30	Iter 4, Implementation	HistoryTest 2	Lab, Quiz
May 1			Iter 4, Testing		Exam 3

3 Required Materials

Books



(a) Starting Out With C++ Early Objects, Gaddis, Walters, and Muganda (b) Mastering Algorithms with C, Kyle Loudon

Software

Microsoft Visual Studio 2022, Community Edition, <https://visualstudio.microsoft.com/downloads/>.
Diagramming Software, your choice. We will discuss at office hours.

4 Student Effort

Weekly effort You should allocate 8 to 10 hours per week for this class. This is an estimate — your time will probably vary. You might want to schedule two hours a day, Monday through Friday, in order to complete your work for the week. Here is a breakdown of the estimated weekly effort: reading: 3 hours, quiz: .5 hours, labs: 1 hour, exercise: 2.5 hours, project: 1 hour.

I will keep regular office hours. The times will depend on what is most convenient to the class. We will determine this on the first day of class. I will have a *mandatory* introduction at the beginning of the term. Even though this is mandatory, no credit is given for attendance and no penalty will be assessed for non-attendance. The purpose of this meeting is a general orientation to the course and to explain the expectations and the expected learning outcomes.