



CS149D Elements Of Computer Science

Spring 2010

Lecture: 3 Hours, 3 Credits

Lecture	21309	900-950 Monday 1000-1050 Wednesday	Spong 0108
Recitation	22265	1000-1050 Monday	Spong 0113

Prerequisites: MATH 102M or equivalent

Instructor: Ravi Mukkamala

Office: ECS 3317

Phone: (757) 683-3901

Email: mukka@cs.odu.edu

Office Hours: **Mon, Wednesday: 1500-1630**

Class Web Site: Course blackboard site available at: <https://www.blackboard.odu.edu>

Course Description:

This course is intended for non-computer science majors and prospective computer science majors. No previous computing or programming experience is assumed. Topics include: history of computing, basics of the Internet and the World Wide Web, basic computer hardware, programming environments, programming concepts (including variables, expressions, assignment, and control flow), and introductory software engineering concepts. Emphasis will be on the ability to write simple programs in C++. Concepts are introduced both through formal lectures and exposure to a programming environment.

This course is designed as an introduction to computing and computer science. On the one hand the course aims at familiarizing you with the Internet and the World Wide Web. A second goal is to acquaint you with how computing may be used in your field. The third goal is to make you knowledgeable about societal issues related to computing.

The mastery of one set of computer science concepts will be reinforced by several programming assignments of graduated difficulty. The programming language used throughout the course is C++. The C++ language will be introduced in class in direct support of the material taught. No prior exposure to C++ is assumed or required.

REQUIRED MATERIALS

(1)

Computer Science: An Overview, 10/E

J. Glenn Brookshear, *Marquette University*

ISBN-10: 0321524039

ISBN-13: 9780321524034



(2)

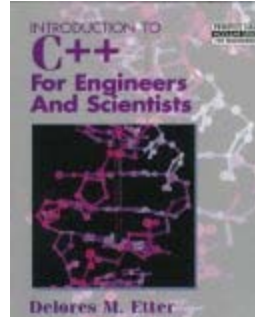
Introduction to C++ for Engineers and Scientists

Delores M. Etter, *United States Naval Academy*

ISBN-10: 0132547317

ISBN-13: 9780132547314

(It looks something like this.... Just make sure that you get the correct ISBN number.)



Grading

Homework & Programming Assignments	30 %	(drop 1)
Quizzes	30%	(drop 1)
Midterm Exam (1)	15 %	
Final exam (1)	15 %	
Participation & Attendance	10%	

Grading Scale

The grading scale is as follows:

90-100	A
87-89	B+
80-86	B
77-79	C+
70-76	C
67-69	D+
60-66	D
0-59	F

BlackBoard

- We will use the Blackboard site for this course actively throughout the semester.
- I will post important announcements on our Blackboard site,
- Use the Blackboard discussion forum to post questions of a general manner, and to help other students in the class. Please participate in class and in the forums, however your main source of information is in class.

Office Hours

- 3pm – 4:30pm **Monday, Wednesday**
- You may contact me via e-mail (mukka@cs.odu.edu), so that other hours may be arranged.
- Adjustments to the above hours may be made and announced in class.

Academic Integrity

By attending Old Dominion University you have accepted the responsibility to abide by the honor code. If you are uncertain about how the honor code applies to any course activity, you should request clarification from the instructor. The honor code is as follows:

"I pledge to support the honor system of Old Dominion University. I will refrain from any form of academic dishonesty or deception, such as cheating or plagiarism. I am aware that as a member of the academic community, it is my responsibility to turn in all suspected violators of the honor system. I will report to Honor Council hearings if summoned."

Any evidence of cheating will result in a 0 grade for the assignment/exam, and the incident will be submitted to the department for further review. Evidence of cheating may include a student being unable to satisfactorily answer questions asked by the instructor about a submitted solution. Cheating includes not only receiving unauthorized assistance, but also giving unauthorized assistance. For class files kept in Unix space, students are expected to use

Unix file permission protections (chmod) to keep other students from accessing the files. Failure to adequately protect files may result in a student being held responsible for giving unauthorized assistance, even if not directly aware of it. Submitting anything that is not your own work without proper attribution (giving credit to the original author) is plagiarism and is considered to be an honor code violation. It is *not acceptable* to copy written work from any other source (including other students), unless explicitly allowed in the assignment statement. In cases where using resources such as the Internet is allowed, proper attribution must be given.

Students may still provide legitimate assistance to one another. You are encouraged to form study groups to discuss course topics. *Students should avoid discussions of solutions to ongoing assignments and should not, under any circumstances, show or share code solutions for an ongoing assignment.* Please see the ODU Honor Council's webpage at <http://orgs.odu.edu/hc/> for other concrete examples of what constitutes cheating, plagiarism, and unauthorized collaboration. *All students are responsible for knowing the rules.* If you are unclear about whether a certain activity is allowed or not, please contact the instructor.

Attendance & Classroom Conduct

I expect you to attend class and to arrive *on time*. If you have to miss a class, you are responsible for checking the course Blackboard website to find any assignments or notes you may have missed. Please be respectful of your classmates and instructor by minimizing distractions during class. *Cell phones should be turned off during class.*

Students may leave after 15 minutes if the instructor or a guest lecturer does not arrive in that time.

Homework/Assignments policy

Late Assignment Policy

Any assignment submitted after its deadline is considered late. Assignments that are submitted late will not be graded, and no credit will be awarded for a late assignment.

Homework/Assignments are to be submitted as instructed - typically via Blackboard, before the due date.

- **Late submissions will not be accepted.**
- The lowest homework grade is dropped.

Quizzes are administered via Blackboard. Quizzes expire on the due date, and cannot be taken after they have expired and become unavailable.

- The lowest quiz grade is dropped.

Communication /EMAIL

Students should activate their Old Dominion e-mail accounts and check them every day. If a student chooses to have his/her messages forwarded to another account, it is the student's responsibility to take the necessary steps to have them forwarded.

- Our primary means of communication will be in class, face-to-face.
- You must use your University email to contact me (mukka@cs.odu.edu).

Make-ups

Make-ups for graded activities are possible *only* with a valid *written* medical or university excuse. It is the student's responsibility to give the instructor the *written* excuse and to arrange for any makeup work to be done. A makeup exam may be different (and possibly more difficult) than the regularly scheduled exam.

Disability Services

In compliance with PL94-142 and more recent federal legislation affirming the rights of disabled individuals, provisions will be made for students with special needs on an individual basis. The student must have been identified, as "special needs" by the university and an appropriate letter must be provided to the course instructor. Provisions will be made based upon written guidelines from the University's Special Needs Students Resource Office. All students are expected to fulfill all course requirements.

Seeking Help

The course Blackboard website should be your first reference for questions about the class. The schedule will be updated throughout the semester with links to lecture notes and assignments. Announcements and frequently asked questions (FAQ) will also be posted to the course Blackboard site. The best way to get help on assignments and in understanding lectures is to come to the lectures and ask questions. You can also seek help during posted office hours. If you cannot make meet me during office hours, please send an email (mukka@cs.odu.edu) to setup an appointment. I am available via email, but do not expect or rely on an immediate response.

Since this course will include several projects, here's a word of advice – ***start working on assignments early! START EARLY; LEARN SLOWLY; FINISH SUCCESSFULLY.*** *An hour spent reading and understanding an assignment on the day it is given out will be worth many hours on the night before it is due.*

NOTE:

This syllabus and the course schedule posted on Blackboard are tentative and subject to change. Changes and Announcements will be made in class.

Date	Lecture
1/11	Chapter 0: Brookshear
1/13	Chapter 1: Brookshear
1/18	NO CLASS MLK DAY
1/20	Chapter 1: Brookshear
1/25	Chapter 2: Etter: Introduction to C++
1/27	Chapter 2 (cont.): Introduction to C++
2/1	Chapter 3: C++
2/3	Chapter 3: C++ (cont.)
2/8	Chapter 3: C++
2/10	Chapter 3: C++ (cont.)
2/15	Chapters 1&2: Brookshear
2/17	Chapter 2: Brookshear
2/22	Chapters 3: Brookshear
2/24	Review for the Exam
3/1	Midterm Exam part 1
3/3	Midterm Exam part 2
3/8 and 3/10	Spring Break
3/15	Chapter 4: Brookshear
3/17	Chapter 4: Etter
3/22	Chapter 5: Brookshear
3/24	Chapter 4: Etter
3/29	Chapter 5: Brookshear
3/31	Chapter 5: Etter
4/5	Chapter 7: Brookshear
4/7	Chapter 5: Etter
4/12	Chapter 9: Brookshear
4/14	Chapter 6: Etter
4/19	Chapter 6: Etter
4/21	Review Brookshear
4/26	Review Etter
5/3	Final Exam 830-1130am