Computer Science I
CS 23021 Sections 003 and 004
Fall 2008, MSB 121, TU 11:00am-12:15pm

Instructor Dr. Mikhail Nesterenko

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Lab Instructor Ms. Debbie Stoffer

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labs: Section 003 – Monday 11:00am-12:55pm,
Section 004 – Wednesday  11:00am-12:55pm

Course Prerequisites

cs10051 “Introduction to Computer Science”

Course Overview

The goal of the course is to familiarize the students with programming in a high-level object-oriented
language (C++) while studying the main constructs of C++. The students will learn to translate
algorithms into correct programs as well as to debug, document and maintain the code.

The C++ constructs covered include: conditional and loop statements, functions, arrays, pointers,
object classes, dynamic memory allocation. Time permitting we will also study standard template
library and inheritance.

Textbook


Class Web Page, Mailing List, Contacting the Instructor

The web page for the class is http://www.cs.kent.edu/~mikhail/classes/ioop/ (I have a link to this page
from my homepage). The web page will contain links to the following course materials:

- course syllabus;
- class schedule;
- lecture notes and programming examples used in class;
- programming project assignments;
- additional helpful links.

There is a mailing list set up for the students taking this course. I am going to send announcements
and other class related information to this list. It is very important to be on this list to get the latest
news and updates about the class. You are required to subscribe to the list within the first two weeks
of classes. The subscription instructions are on the course’s webpage. You have to check your mail at
least once a day while the school is in session. The simplest way to contact me is via e-mail. If you
need to talk to me in person - see me during my office hours or make an appointment via e-mail.

Lectures

Students are expected to attend each lecture. I will not take roll, yet attendance and active participation during a lecture will help you learn the material and succeed in class.

Class Participation

10 points are given for participation. You are expected to answer questions I ask in class. The questions usually deal with the material we covered in the previous class. If you do not attend the class I consider that you do not answer questions I ask you. Rather than participate in class you may select to do a harder last project (which will earn you the extra 10 points.) If you select this option you have to inform me by e-mail within the first two weeks of classes. Once you choose this option, you cannot go back to class participation option. Even though I provide this alternative, I encourage you to select class participation since I believe this is the best way to learn the material.

Quizzes

There will be approximately 5 quizzes held during the class. The date of the quiz is announced about a week in advance (there will be no surprise quizzes.) A quiz is held during the first 10 minutes of the class. Late students will not be given extra time to complete the quiz. A quiz usually contains 10 multiple-choice questions. Each question is worth 1 point. I will not count your worst score towards your final grade (missing quiz is equivalent to scoring 0.)

Exams

There will be one exam (held during class) and a final exam (held during finals week). All exams are closed book, closed notes, and must be individual work. It is expected that you take each exam at the scheduled time, unless you make prior arrangements with me, or have a documented illness (in which case I expect you to contact me as soon as possible). You will be tested on the material I covered in class. The textbook alone may not be sufficient for adequate preparation for the exams.

Programming Projects

There will be approximately 7 programming projects. The programming projects involve reading, modifying and writing C++ code. You will submit your projects electronically. The projects will also be graded electronically. The details on submission will be given to you together with the project assignment. You will be provided with an account on the departmental undergraduate Unix servers. You are, however, free to do your work on any other Unix machine you have access to.

Labs

The lectures are complemented with a lab sessions. The two sections of this course differ in the time of their lab sessions. The lab session is conducted by a teaching assistant. Lab attendance and participation is required. 80 points will be given for lab participation towards your final grade.

Late Policies

- quizzes  no late quizzes accepted, no make-up quizzes;
- exams    no late exams, no make-up exams;
- projects late projects accepted. 10% of the grade is subtracted for each day the project is late. For penalty calculation Saturday and Sunday are counted as one day.
Late work will be accepted as stated above. I may waive the late policy conditions only in case of a documented illness or some extraordinary circumstance. In either case you have to contact me immediately. With respect to projects, my decision to grant you a waiver is partially influenced by the degree of completion of the work assigned. For example, if the project is assigned for 2 weeks, by 10th day I expect you to complete 65-70% of the work.

In general, you will have adequate time to complete each assignment. However, you should begin working on each assignment early so that you will have plenty of time for debugging which may take significantly longer than the initial code writing. Waiting to start coding until the night before the project is due is a bad idea.

**Academic Integrity**

Student-teacher relationships are built on trust. Students must trust that teachers have made appropriate decisions about the structure and content of the courses they teach, and teachers must trust that the assignments which students turn in are their own. Acts that violate this trust undermine the educational process. Academic dishonesty in any form will be penalized up to assigning grade F in the course.

** Cooperation on Homework Assignments and Programming Projects**

For both homework assignments and programming projects, I strongly believe that discussion with your peers is an excellent way to learn. If you don’t understand something, discussing it with someone who does can be far more productive than beating your head against the wall.

Having advocated discussion, then, I must be clear what is allowed, and what is not. In general, students are allowed to cooperate as follows: you are allowed to discuss with other students the assignment, and general methods for solving the assignment. However, you are not allowed to work with someone else to actually solve the assignment, or to write code (even pseudocode) for a program, and you are certainly not allowed to copy anyone else’s solution; doing any of these things will be considered cheating, and will constitute grounds for failing the course.

Note that there is a fine line between discussion and cheating. If you are unsure what is allowed and what isn’t, feel free to discuss the distinction with me, but if something feels uncomfortable, it’s probably not allowed.

Finally, you should be careful not to give others access to your code. This means that you shouldn’t keep your program in a publicly accessible directory, you shouldn’t leave your terminal unattended, and you shouldn’t forget to pick up your printouts.

University’s cheating and plagiarism statement can be found here [http://www.kent.edu/policyreg/chap3/upload/3342.3.01.8.pdf](http://www.kent.edu/policyreg/chap3/upload/3342.3.01.8.pdf)

**Grades**

Your final course grade will be calculated as follows:

- quizzes (approximately 5) 10 points each, worst score dropped
- class participation 10 points
- programming projects (approximately 7) 20 points for the first
- 50 points for each following project
- midterm exam 100 points
- final exam 100 points
- lab participation 80 points

The sum of the possible scores on all assignments is considered 100% and your final course grade will be determined as follows – 100-93% A, 92-90 A–, 89-87 B+, 86-83 B, 82-80 B–, 79-77 C+, 76-
73 C, 72-70 C–, 69-67 D+, 66-60 D, 59-0 F. **There will be no curve at the end of the course,** although individual exams may occasionally (although rarely) be curved. **Note that this means that your score will not be rounded up: if you get 66.99% you will get a D not a D+.** Thus, you should always be able to determine how well you are doing in the course.

You will provide me with a pseudonym. Your grades will be posted on the course’s webpage under your pseudonym.

**Students with Disabilities**

University policy 3342-3-01.3 requires that students with disabilities be provided reasonable accommodations to ensure their equal access to course content. If you have a documented disability and require accommodations, please contact the instructor at the beginning of the semester to make arrangements for necessary classroom adjustments. Please note, you must first verify your eligibility for these through Student Accessibility Services (contact 330-672-3391 or visit www.kent.edu/sas for more information on registration procedures).

**Miscellaneous**

Try not to be late for class. Make sure you silence your cellphone. The use of laptops while the class is in session is **not** allowed. If you take notes or otherwise cannot avoid using your laptop, notify me within the first two weeks of classes.