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

Instructor: Dr. Mikhail Nesterenko

- e-mail: mikhail@cs.kent.edu
- office: MSB 356
- phone: 672-9109
- web: http://www.cs.kent.edu/~mikhail/
- office hours: 12:30-2:00pm

Lab Instructor: Ms. Debbie Stoffer

- e-mail: dstoffer@cs.kent.edu
- web: http://www.cs.kent.edu/~dstoffer/
- 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.
Introduction to Computer Science
CS 10051-007/008
Fall 2008
TU 9:15-10:30am in MSB 228

Instructor
instructor: Mikhail Nesterenko
email: mikhail@cs.kent.edu
office: MSB 356
office hours: TU 12:30-2:00pm

Course Description
A broad introduction to the discipline of computer science. A high level introduction of various aspects of computer science, including algorithm design and analysis, digital logic, architecture and system organization, low-level language programming, operating system concepts, high-level language programming, networking, and social issues.
Prerequisite: MATH 11011 College Algebra, MATH 12001 Algebra & Trigonometry, or two years of high school algebra.

Text

Lab
This course has a lab that meets on Wednesdays or Fridays 9:55-11:50am in room 139 MSB. Lab attendance is mandatory and your lab grade will count for 80 points towards your overall course grade. You must pass both the lecture and the lab in order to pass the course. Further details about the lab will be given at first lab meeting.

Grading
Midterm Exam 1 100 points
Midterm Exam 2 100 points
Final Exam 100 points
Homework 20 points
Class Participation 10 points
Lab 80 points
**Grading Scale:** at the end of the course, on the basis of the points that you got, I’ll determine the percentage. Using this, I’ll assign the overall grade: 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.

This course is prerequisite for the next course, CS 23021 Computer Science I. You must earn a grade of C (2.0) or better in this course in order to take CS 23021. Note that a grade of C– (1.7) will not meet this requirement.

**Web Page**

The course web page will provide links to the course syllabus, lecture schedule, and homework, as well as links to other online resources related to the course material. Students are encouraged to check the web page regularly.

**URL**  www.cs.kent.edu/~mikhail/classes/intro/

**Registration Requirement**

The official registration deadline for this course is September 7, 2008. University policy requires all students to be officially registered in each class they are attending. Students who are not officially registered for a course by published deadlines should not be attending classes and will not receive credit or a grade for the course. Each student must confirm enrollment by checking his/her class schedule (using Student Tools in FlashFAST) prior to the deadline indicated. Registration errors must be corrected prior to the deadline.

**Cheating and Plagiarism**

The university's plagiarism policy can be found here

http://www.kent.edu/policyreg/chap3/upload/3342.3.01.8.pdf

**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).
Introduction to Computer Science
CS 10051-009/010
Spring 2009
TU 12:30-1:45pm in MSB 228

Instructor
instructor: Mikhail Nesterenko
email: mikhail@cs.kent.edu
office: MSB 356
office hours: TU 11:00am-12:15pm

Course Description
A broad introduction to the discipline of computer science. A high level introduction of various aspects of computer science, including algorithm design and analysis, digital logic, architecture and system organization, low-level language programming, operating system concepts, high-level language programming, networking, and social issues.

Prerequisite: MATH 11011 College Algebra, MATH 12001 Algebra & Trigonometry, or two years of high school algebra.

Text

Lab
This course has a lab that meets on Wednesdays or Fridays 12:05-2:00pm in room 139 MSB.
Lab attendance is mandatory and your lab grade will count for 100 points towards your overall course grade. You must pass both the lecture and the lab in order to pass the course. Further details about the lab will be given at first lab meeting.

Grading
Midterm Exam 1 100 points
Midterm Exam 2 100 points
Final Exam 100 points
Homework 20 points
Class Participation 10 points
Lab 100 points
**Grading Scale:** at the end of the course, on the basis of the points that you got, I’ll determine the percentage. Using this, I’ll assign the overall grade: 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.

This course is prerequisite for the next course, CS 23021 Computer Science I. You must earn a grade of C (2.0) or better in this course in order to take CS 23021. Note that a grade of C– (1.7) will not meet this requirement.

**Web Page**

The course web page will provide links to the course syllabus, lecture schedule, and homework, as well as links to other online resources related to the course material. Students are encouraged to check the web page regularly.

**URL**  
www.cs.kent.edu/~mikhail/classes/intro/

**Registration Requirement**

University policy requires all students to be officially registered in each class they are attending. Students who are not officially registered for a course by published deadlines should not be attending classes and will not receive credit or a grade for the course. Each student must confirm enrollment by checking his/her class schedule (using Student Tools in FlashFAST) prior to the deadline indicated. Registration errors must be corrected prior to the deadline.

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**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).
Operating Systems
CS 33211
Spring 2009, TU 2:15-3:30pm, MSB 115

Instructor
Dr. Mikhail Nesterenko

e-mail: mikhail@cs.kent.edu
office: MSB 356
phone: (330) 672-9109
office hours: TU 11:00am-12:15pm
web: http://www.cs.kent.edu/~mikhail/

Course Prerequisites
CS 33001 (Data Structures) and CS 35101 (Computer Architecture) or their equivalents.

Course Overview
The goal of this course is to provide an introduction to operating systems. We will study process management, threads, deadlocks, memory management, file system organization. If time permits we will also examine the networking and distributed aspects of OS design.

Textbook

Class Web Page, Mailing List, Contacting the Instructor
The web page for the class is http://www.cs.kent.edu/~mikhail/classes/os/ (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;
• homework and programming projects assignments, homework solutions.

A mailing list is set up to for the students taking this course. I am going to send announcements and other class-related information to this list. The instructions how to subscribe to the mailing list as well as the list archive are linked to the course’s mailing list. You have to subscribe to the mailing list within the first two weeks of classes. You can subscribe to the list from the account of your choice (it does not have to be Kent-State’s university or departmental account.) 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 Assignments

Homeworks. There will be approximately 3 homework assignments during the semester. The homework assignments will be pencil-and-paper based and will involve solving problems from the textbook.

Quizzes. There will be approximately 3 quizzes. 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.

Programming projects. There will be approximately 3 programming projects. They will involve reading and writing C++ code. If you need quick refresher on C++, check the course's webpage for links to online tutorials.

The projects will be submitted and graded electronically. The details on project submission will be given to you together with project assignment.

Exams. There will be two midterm exams (held during class) and a final exam (held during finals week.) You will be tested on the material I covered in class. The textbook alone may not be sufficient for adequate preparation for the exams.

Late Policies

- quizzes: no late quizzes accepted, no make-up quizzes;
- exams: no late exams, no make-up exams;
- homeworks: no late homeworks;
- 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 a single day.

Late work will be accepted as stated above. I may waive the late policy conditions only in case of a documented illness or another extraordinary circumstance. In either case you have to contact me immediately. With respect to projects and homeworks 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.

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 about 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.

The university’s plagiarism policy can be found here http://www.kent.edu/policyreg/chap3/upload/3342.3.01.8.pdf

Grades

Your final course grade will be calculated as follows:

- quizzes (approximately 3) 10 points each (the lowest quiz score will be dropped)
- programming projects (approximately 3) 50 points each
- homeworks (approximately 3) 20 points each
- midterm exams (2) 100 points
- final exam 100 points

The sum of 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, homeworks, etc. may occasionally (although rarely) be curved. Note that this means that your score will not be rounded up: if you get 69.99% you will get a D+ not a C-. 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).