Fall 08

CS 10051 – 600 * Introduction to Computer Science

Department of Computer Science
Kent State University Stark

TR 11:00 AM - 12:15 PM - Room MH 304 (Instructor: Dr. Angela Guercio)

Laboratory: F 11:00 AM - 1:00 PM - Room MH 306 (Instructor: Prof. Judith Edwards)

<table>
<thead>
<tr>
<th>Class Instructor</th>
<th>Lab Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Angela Guercio</td>
<td>Dr. Judith Edwards</td>
</tr>
<tr>
<td>Office: 424, Main Hall</td>
<td>Office: 310G desk 12, Main Hall</td>
</tr>
<tr>
<td>Phone: 330 244-3424 (KSU ext. 53424)</td>
<td>Phone: 330 244-3424 (KSU ext. 53319)</td>
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<tr>
<td>Best way to contact me:</td>
<td>Best way to contact me:</td>
</tr>
<tr>
<td>e-mail to <a href="mailto:aguercio@kent.edu">aguercio@kent.edu</a></td>
<td>e-mail to <a href="mailto:jedwar9@kent.edu">jedwar9@kent.edu</a></td>
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<td>Office Hours:</td>
<td>Office Hours:</td>
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<tr>
<td>TR 10:00am - 10:55am 12:25pm - 1:55pm 4:55pm - 5:25pm other times are available by appointment</td>
<td>TR 4:00pm – 5:15pm and F 1:15pm – 2:30pm Other times are available by appointment</td>
</tr>
</tbody>
</table>

Course Information

Class Webpage: http://www.personal.kent.edu/~aguercio/Fall08/CS10051-600Fa08.html

- all important class information will be posted on the class webpage, readings, assignments, notes, deadlines, cancellations, ect..
- You must CHECK THE CLASS WEBSITE REGULARLY!!!

Prerequisites: No prerequisites

Credit: 4

Required Text:

Course Outline and Objectives

This course will introduce you to the computer science discipline. The course covers

• the algorithmic foundations of computer science by introducing the concept of algorithm, algorithm design, the efficiency of algorithms;
• the hardware world by introducing binary numbers, Boolean logic, gates and circuits, and computer organization;
• virtual machines and computer networks;
• the software world by introducing high level language programming and the use of compilers.

The objectives of the course are:

• to introduce you to the basic terminology of the Computer Science discipline;
• to expose you to the foundation of this discipline and to show you the ideas and principles that helped its formation;
• to show what can be done and what cannot be done in computing;
• to introduce the most important elements of computing;
• to expose you to the basic elements of programming and to provide an experimental approach to the computer science discipline;
• to deepen your writing ability on scientific issues in computing;
• to improve your ability to read and understand computing material;
• to develop in you a familiarity with computing elements and to enable to use them for future courses;
• to show alternative solutions to computer science problems and discuss the complexity of the solutions;
• to provide you with hands-on experience in computing;
• to develop in you an appreciation for the interesting features of this discipline.

Class Requirements and Expectations

1. **Regular class attendance is REQUIRED.**

   There tends to be a strong correlation between class attendance and grade performance. If you will miss a class or a lab, let me know ahead of time. In any case, you are responsible for bringing yourself up to date on class material and assignments.
Since class participation and regular attendance are part of the final grade, **if you miss more than 5 classes without a documented reason or without making prior arrangements with me, your final grade will be dropped one grade (A to B, B+ to C+ and so on).**

2. Laboratory attendance is MANDATORY.

   Lab activity **MUST** be started in class and can be completed at home only with instructor permission. Laboratory worksheets will not be accepted if you are absent during the laboratory. Labs completed at home without instructor permission or health professional's excuse will not be accepted.

3. COMPLETE the laboratory activity.

   Laboratory activity is issued weekly and must be completed in class.

   For each lab activity you will be asked to perform a Lab Experiment and to complete a Lab Worksheet.

4. Reading ahead is REQUIRED.

   The readings are posted online on the class webpage. You must read the material **before** class **and again after** the class.

   Regular study of the material is REQUIRED. We will roughly cover ½ to 1 chapter per week.

5. COMPLETE the assigned homework.

   Regular homework assignments will be given and they will be posted online on the class webpage.

   The class webpage will list the assignments for each week at the beginning of that week so that you can better schedule your work.

6. REVIEW the graded Homework/Labs.

   Homework and Labs will be graded and some difficulties will be discussed in class. Review the mistakes.

   Late Homework/Lab Reports will not be accepted if returned after the solution is given or discussed.

7. Return work ON TIME
All the printed copies of the Homework are due before or at the beginning of class. All assignments, either printed or submitted via e-mail, turned in one day late will get 3 points per day penalty including those returned after the beginning of class.

For all Homework that are e-mailed, the instructor will acknowledge the receipt within 24 hours via e-mail. The time of your e-mail will be compared against the work deadline. The reply is your receipt that the work has been turned in (not that it is correct!). If you do not receive a receipt, it is YOUR responsibility to contact me to see if the assignment has been lost in transmission. Important: once you submit your files DO NOT OPEN THEM AGAIN! If your e-mail didn’t reach me or something happened to your files, I may need to ask you to resubmit your files by logging on in my presence to check the modification dates on your files and make sure that they haven’t been modified after the due date.

What to expect to find in your computer science class

巴斯 The class should be interactive. In-class questions and exercises are designed to encourage participation. There will be in class cooperation, open discussions about problems and possible solutions.

巴斯 You will be exposed to traditional lecture methods on the blackboard as well as computer presentations and hands-on activities. Handouts will be given when necessary, but in general PowerPoint slides of the lectures will be available. In any case, you are responsible for taking good notes.

巴斯 You will participate in group activities. Collaborative learning will be used to discuss possible solutions to problems as well as to provide critical observations to problem solutions. Formal and/or informal groups will be formed in class to stimulate team work. In some cases, you will be required to work on your own. In those cases, I expect appropriate academic behavior from you. Exchange of information, when forbidden, is not appropriate.

巴斯 You will work both with and without a computer. The laboratory activity provides hands-on application of the concepts learned in class and complements the theoretical studies of the computer science discipline. Exercises and problems solved without the computer will help you in developing the ability to discuss and identify the most appropriate techniques for the solution of a problem, and to stress the importance of the development of an optimal design of the solution contrary to a “brute-force” design driven by the specific computer requirements (i.e. the first solution that comes to your mind and that you design directly on the computer!) which is typical of an untrained person.
Expect to commit some time each day to study the theory of computer science and to observe, analyze, solve and report the solution of the assigned lab problems.

Some Useful Hints:

✓ Do not procrastinate! Homework and Labs should be started immediately. You will find out that it requires more time than you have planned! Lab experiments and reports will need considerable extra time for completion when errors occur. Any error discovered at the last minute might be the cause of an undesired delay, so plan accordingly!

✓ If you have difficulties doing your homework or your Labs, get help from the Instructor, prepare questions for class, or visit my office.

✓ If my office hours do not work for you, ask for an appointment.

✓ If your difficulties are in writing, get help from the Writing Center.

The Secret Key (not so secret after all!) of how to succeed in this CS class is to:

1. work conscientiously and do all the homework that has been assigned;
2. extrapolate, from the examples provided to you, techniques and answers to problems;
3. spend several hours at the computer to solve problems as well as reading material;
4. be alert and participate in class discussions;
5. learn from other peoples’ mistakes;
6. be critical of your own work. Question every step you are making; ask yourself “Is this step correct?” “Are there other easier or more efficient alternative steps?”
7. attend the class and the laboratory regularly;
8. spend time studying the theoretical concepts. Memory helps, but it is practice that reinforces the theory;
9. do all the above consistently through the whole semester, be confident about what you are doing and don’t be afraid to ask for help;
10. Think and enjoy!

I am very confident that you can make the above commitment and that you can maintain it during the semester. I am sure that you have all the ability to be successful!

Exams

There will be 3 100-points Mid-Term Exams which will cover the topics of the previous 4 weeks.
The 100-points Final Exam is comprehensive and will cover with greater stress the topics of the last 3 weeks of the course.

All exams are closed books, closed notes.

Retaking exams are not available.

Make-up exams will only be given in case of serious need (written verification for your inability to take an exam is required) and only when I have been notified prior to the exam being issued, otherwise you are considered absent for that exam and the grade of your exam is automatically 0.

Grading

Your grade will be based on
1. Your homework completion
2. Your Lab Activity completion
3. Your participation in discussions concerning the homework, class topics and reading material
4. Your attendance in class and in the lab
5. …and, of course, your exams!

The COURSE is formed of two independent parts.

TO PASS THE COURSE, YOU MUST PASS EACH PART GIVEN BELOW INDEPENDENTLY!

---- i.e. an A in PART II and an F in PART I, is NOT a passing grade.

Part I
Labs Attendance and Worksheets  25%
Penalty for late lab report: 3 points a day

Part II
Homework and Class Participation  10%
Penalty for homework: 3 points a day

Exam 1  15%
Exam 2  15%
Exam 3  15%
Final Exam  20%

<table>
<thead>
<tr>
<th>Points</th>
<th>Grade</th>
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<tbody>
<tr>
<td>92.5-100</td>
<td>A</td>
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<tr>
<td>89.5-92.4</td>
<td>A-</td>
</tr>
<tr>
<td>87-89.5</td>
<td>B+</td>
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<tr>
<td>82.5-86.9</td>
<td>B</td>
</tr>
<tr>
<td>80-82.4</td>
<td>B-</td>
</tr>
<tr>
<td>77.5-79.9</td>
<td>C+</td>
</tr>
<tr>
<td>72-77.4</td>
<td>C</td>
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</table>
### Course Withdrawal
If you are considering withdrawing from this course, please inform your instructor and consult a staff member in the Student Services Office, 134 Main Hall. Withdrawal from a course can affect financial aid, student status, or progress within your major. For withdrawal deadlines, please refer to [http://www.registrars.kent.edu/home/TermUpdate/sche_adj.htm](http://www.registrars.kent.edu/home/TermUpdate/sche_adj.htm).

### Academic Honesty Policy
When assignments must be individually and independently done, if some students turn in substantially the same solution or program of another student, in my judgment, the solution will be considered a group effort. All involved in the group effort homework will receive a zero grade for that assignment. Policy on academic dishonesty involving programming can be found at [http://www.cs.kent.edu/programs/grad/DishonestyPolicy.pdf](http://www.cs.kent.edu/programs/grad/DishonestyPolicy.pdf).

Use of the intellectual property of others without attributing it to them is considered a serious academic offense. Cheating or plagiarism will result in a failing grade for the work or for the entire course. Repeat offenses result in dismissal from the University. University guidelines require that all infractions be reported to the Student Conduct Officer on our campus.

### Students with Disabilities
Kent State University recognizes its responsibility for creating an institution atmosphere in which students with disabilities can succeed. In accordance with University Policy Subpart E...104.44, if you have a documented disability, you may request accommodations to obtain equal access in this class. Please contact the disability coordinator on campus, Kelly Kulick in Student Accessibility Services, located in the Student Success Center, lower level of the Campus Center, phone (330) 244-5047, or kkulick@kent.edu. After your eligibility for accommodations is determined, you will be given a letter which, when presented to instructors, will help us know best how to assist you.

### Classes Canceled – Campus Closings
Announcements of class cancellations and/or campus closings will be made on the campus home page. In the case of an emergency, weather-related or otherwise, please check the web page at [http://www.stark.kent.edu](http://www.stark.kent.edu) for information on the buildings and times of the closing. While information may be broadcast by radio and television, this should be confirmed by the web page, which is the official announcement of the campus and which will be the information used to determine issues related to student attendance, rescheduling of tests, and other concerns.

### Conduct
Students and faculty behavior at the Stark Campus is governed by the guidelines set forth in *The Digest of Rules and Regulations*. That document can be found in the University telephone directory. Information can be found at the Office of Judicial Affairs at [http://www.kent.edu/administration/emsa/judicial.cfm](http://www.kent.edu/administration/emsa/judicial.cfm).

### Recycling
KSU Stark Campus recycles. Recycling saves energy, which is currently generated by expensive and vanishing fossil fuels. Recycling one aluminum can saves enough energy to run a TV for three hours! Please take a few seconds to separate your trash. Aluminum cans and plastic and glass bottles may be placed in the blue recycling bins, and all types of paper may be placed in the blue recycling trash cans. All other waste may be placed in the black, brown or gray trash cans.

**Important Dates to Remember**

- Last day to withdraw *before grade W* is assigned, is Sept. 7, 2008
- Last day to drop the class is Nov. 2, 2008
- Exam 1 is Tuesday, Sept. 23
- Exam 2 is Tuesday, Oct. 21
- Exam 3 is Thursday, Nov. 13
- Final Exam is Thursday, Dec. 11 (6:00 pm – 8:00pm)

**Thanksgiving Recess:** Nov. 26 – Nov. 30

**Classes End:** Dec. 7, 2008

**The Course Outline.**

- Labs days are highlighted in orange
- Review days are highlighted in green
- Exams days are highlighted in yellow
- More Assignments may be issued according to the needs of the class

<table>
<thead>
<tr>
<th>Month/Day</th>
<th>Topic</th>
<th>Reading and Assignments</th>
</tr>
</thead>
</table>
| 1 Aug 26  | Introduction to Computer Science: Definition of Algorithm | **Read Chapter 1 and 2.**  
**First Assignment**  
**Deadline:** e-mail your assignment by 9:59 a.m. by Aug 28 |
| 2 Aug 28  | Introduction to Computer Science: Definition of Computer Science.  
Introduction to Algorithm Design: Pseudocode | There are a few symbols missing in Ch.2 of the new edition. Here is an **Errata Corrige** (latin for "correct the errors") for you. Please add the missing symbols in your Chapter. |
| 1L Aug 29 | Lab 1 |  |
| 3 Sept 2  | Algorithm Design: More algorithms in Pseudocode with Sequential Operations, Conditional and Iterative Operations, Sequential Search, Find the maximum | **Read ahead Chapter 3.** |
| 4 Sept 4  | Algorithm Design: Pattern Matching Algorithm.  
The efficiency of the algorithms: Sorting |  |
<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>2L</td>
<td>Sept 5</td>
<td>Lab 2</td>
</tr>
<tr>
<td>5</td>
<td>Sept 9</td>
<td>The efficiency of the algorithms: Data Cleanup</td>
</tr>
<tr>
<td>6</td>
<td>Sept 11</td>
<td>More Data Cleanup Algorithm</td>
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<tr>
<td>3L</td>
<td>Sept 12</td>
<td>Lab 3</td>
</tr>
<tr>
<td>7</td>
<td>Sept 16</td>
<td>Binary search, Pattern Matching, When things get out of hands</td>
</tr>
<tr>
<td>8</td>
<td>Sept 18</td>
<td>Review and Practice - Algorithm Design</td>
</tr>
<tr>
<td>4L</td>
<td>Sept 19</td>
<td>Lab 4</td>
</tr>
<tr>
<td>9</td>
<td>Sept 23</td>
<td>Exam 1 (Ch 1-3)</td>
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<tr>
<td>10</td>
<td>Sept 25</td>
<td>Binary Numbers, Algorithms for Base Conversion</td>
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<tr>
<td>5L</td>
<td>Sept 26</td>
<td>Lab 5</td>
</tr>
<tr>
<td>11</td>
<td>Sept 30</td>
<td>Signed Magnitude, Two's complement, Text and Image representation</td>
</tr>
<tr>
<td>12</td>
<td>Oct 2</td>
<td>Review and Practice: Base Conversion and Data Representation</td>
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<tr>
<td>6L</td>
<td>Oct 3</td>
<td>Lab 6</td>
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<tr>
<td>13</td>
<td>Oct 7</td>
<td>Boolean Logic - Gates - Truth Tables</td>
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<tr>
<td>14</td>
<td>Oct 9</td>
<td>CE, Adder, Control Circuits</td>
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<tr>
<td>7L</td>
<td>Oct 10</td>
<td>Lab 7</td>
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<tr>
<td>15</td>
<td>Oct 14</td>
<td>Review and Practice – Boolean Logic and Circuits</td>
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<tr>
<td>16</td>
<td>Oct 16</td>
<td>Computer Systems Organization: Memory</td>
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<tr>
<td>8L</td>
<td>Oct 17</td>
<td>Lab 8</td>
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<td>17</td>
<td>Oct 21</td>
<td>Exam 2 (Ch. 4)</td>
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<td>18</td>
<td>Oct 23</td>
<td>Computer Systems Organization: Control Unit</td>
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<tr>
<td>9L</td>
<td>Oct 24</td>
<td>Lab 9</td>
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<tr>
<td>20</td>
<td>Oct 30</td>
<td>Review and Practice – Memory, CU and Architecture</td>
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<td>Date</td>
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<tr>
<td>Oct 31</td>
<td>10L</td>
<td>Lab 10</td>
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<tr>
<td>Nov 4</td>
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<td>System Software and Virtual Machine: Machine Language</td>
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<td>Nov 6</td>
<td></td>
<td>Review and Practice – Assembly</td>
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<td>Nov 7</td>
<td>11L</td>
<td>Lab 11</td>
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<tr>
<td>Nov 11</td>
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<td>Veterans Day - No Class</td>
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<tr>
<td>Nov 13</td>
<td>23</td>
<td>Exam 3</td>
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<td></td>
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<td><strong>Read ahead Chapter 8.</strong></td>
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<tr>
<td>Nov 14</td>
<td>12L</td>
<td>Lab 12</td>
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<tr>
<td>Nov 18</td>
<td></td>
<td>High Level Language Programming</td>
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<td>Nov 20</td>
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<tr>
<td>Nov 21</td>
<td>13L</td>
<td>Lab 13</td>
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<tr>
<td>Nov 25</td>
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<td>High Level Language Programming</td>
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<tr>
<td>Nov 26-30</td>
<td></td>
<td>Thanksgiving Recess</td>
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<tr>
<td>Dec 2</td>
<td>26</td>
<td>Review and Practice</td>
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<tr>
<td>Dec 4</td>
<td>27</td>
<td>Review and Practice</td>
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<tr>
<td>Dec 5</td>
<td>14L</td>
<td>Lab 14</td>
</tr>
<tr>
<td>Dec 9</td>
<td>28</td>
<td>10:30 am - 12:30pm - room MH 304 Final Exam (comprehensive)</td>
</tr>
</tbody>
</table>
Spring 2009
CS 23021 Section 600
Computer Science I - Programming And Problem Solving

Department of Computer Science
Kent State University Stark

TR 11:00 AM - 12:15 PM - Room MH 306 (Instructor: Dr. Angela Guercio)
Laboratory: F 11:00 AM - 1:00 PM - Room MH 306 (Instructor: Ms. Shannon Steinfadt)

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<td>TR 11:30am - 1:30pm 4:35pm -5:15pm</td>
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</tbody>
</table>

- **Class Webpage:**
  - [http://www.personal.kent.edu/~aguercio/Spring09/CS23021Sp09.html](http://www.personal.kent.edu/~aguercio/Spring09/CS23021Sp09.html)
- **Lab Webpage:**
  - [http://www.personal.kent.edu/~aguercio/lab23021/index.html](http://www.personal.kent.edu/~aguercio/lab23021/index.html)

### Course Information

- **Class Webpage:** [http://www.personal.kent.edu/~aguercio/Spring09/CS23021Sp09.html](http://www.personal.kent.edu/~aguercio/Spring09/CS23021Sp09.html)
  - all important class information will be posted on the class webpage, readings, assignments, notes, deadlines, cancellations, ect..
  - You must **CHECK THE CLASS WEBSITE REGULARLY!!!**

**Prerequisites:** CS10051 with **a grade of C or better.**
This means that a C- in CS10051 is not sufficient to meet the prerequisite.
For more details, please visit [http://www.cs.kent.edu/programs/ugrad/planner.html](http://www.cs.kent.edu/programs/ugrad/planner.html)
Credit: 4 Credit Hours

Required Text:


The Online Book Resources can be found at [http://www.aw-bc.com/savitch/](http://www.aw-bc.com/savitch/)

Any other texts or papers that I might require you to read will be given in class.

Emergency: In case of an emergency please contact the security on campus.

Security phone on campus: #53123

Security cell phone (330) 705-0430 or, of course, 911.

I recommend that you program into your cell phone the previous numbers.

Course Outline and Objectives

This course will introduce you to the Object Oriented paradigm. This course will teach you how to write programs using the object-oriented paradigm language C++, and will cover the syntax of the language. Particular attention will be paid to program design and the problem-solving methodologies, which should be used to produce a program of good quality.

The course outline covers

- The C++ basic features;
- Procedural Programming and Object Oriented Programming;
- Variables, Data Types and Expressions
- Functions
- Classes and Objects
- Class Properties
- Inheritance
- Arrays and Vectors
- Pointers
- Testing and Debugging

The objectives of the course are:

- To introduce you to the object-oriented paradigm of the C++ language
- To teach you how to write a C++ program and how use the C++ compiler
- To introduce you to the most important elements of computing
- To deepen your program design abilities before proceeding in study of more complex problems and language features.
- To show that there are several ways to solve problems but some solutions are more efficient, better readable and easier to maintain than others. Being a program designer is different from being a ‘brute force’ programmer: problem-solving methodologies are essential for the scope and the language is the media through which we express those techniques.
• To teach you good programming habits.
• To empower you with the use of data structures.
• To learn how to select methodologies to apply to a series of sample problems. Examples of several classes of problems will be discussed in class.
• To give you hands-on experience in designing and testing C++ programs on different environments.
• To show you the interesting features of C++ such as pointers.
• To satisfy requirements the computer systems major and minor.

ATTENTION!!!

CS23021 is a prerequisite for CS33001. A grade of C or better is required to take CS33001. This means that a C- is not sufficient to meet the requirement.

Class Requirements and Expectations

• Regular class attendance is REQUIRED.

  There tends to be a strong correlation between class attendance and grade performance. If you will miss a class or a lab, let me know ahead of time. In any case, you are responsible for bringing yourself up to date on class material and assignments.

  Since class participation and regular attendance are part of the final grade, if you miss more than 5 classes without a documented reason or without making prior arrangements with me, your final grade will be dropped one grade (A to B, B+ to C+ and so on).

• Laboratory attendance is MANDATORY.

  Labs attendance is MANDATORY. Labs will be completed partly in class and partly at home. Labs completed ONLY at home (without having completed the required part in class) will not be accepted. Exception will be made only in case you have received a specific instructor permission or you have a health professional's excuse.

• Reading ahead is REQUIRED.

  The readings are posted online on the class webpage. You must read the material before class and again after the class. Roughly we will cover 1 to 2 chapters per week.

  Regular study of the material is REQUIRED. We will roughly cover 1 chapter per week.
• COMPLETE the assigned homework (i.e. projects and exercises).

Assignments will be issued on a regular basis and they will be posted online on the class webpage.

The class webpage will list the assignments for each week at the beginning of that week so that you can better schedule your work.

The projects will require heavy use of the computer and will be time consuming. Please, plan accordingly.

Since the course assumes that you have mastered some ability to program, most of the programming activities will be part of your homework. However programming activity will be performed in class whenever possible and compatible with the lecture schedule.

• REVIEW the graded Homework/Projects/Lab Reports.

Homework, Projects, and Labs will be graded and some difficulties will be discussed in class. Review the mistakes.

Late Homework/Projects/Labs will not be accepted if returned after the solution is given or discussed.

If you have difficulties doing your homework or your project or your Lab please contact me or come to see me or your Lab instructor. Do not procrastinate! Homework, Projects, and Lab should be started immediately. You will find out that they will often require more time than you have planned, due to unexpected and unfortunate computer events (which often occur and therefore should be part of your planning).

• Return work ON TIME

All the homework and project should be zipped and e-mailed as an attachment to aguercio@kent.edu AND a printed copy should be returned to the instructor as well.

All the printed copies of the Homework or the Projects are due before or at the beginning of class. All assignments, either printed or submitted via e-mail, turned in one day late will get 3 points per day penalty including those returned after the beginning of class.

For all Homework or Projects that are e-mailed, the instructor will acknowledge the receipt within 24 hours via e-mail. The time of your e-mail will be compared against the work deadline. The reply is your receipt that the work has been turned in (not that it is correct!). If you do not receive a receipt, it is YOUR responsibility to contact me to see if the assignment has been lost.
in transmission. **Important:** once you submit your files **DO NOT OPEN THEM AGAIN!** If your e-mail didn’t reach me or something happened to your files, I may need to ask you to resubmit your files by logging on in my presence to check the modification dates on your files and make sure that they haven’t been modified after the due date.

**What to expect to find in your Computer Science II class**

- The class should be interactive. In-class exercises are designed to encourage participation. There will be cooperation between you and I, open discussions about problems and possible solutions. You are responsible for taking good notes. Handouts will be given only when necessary.

- You will be exposed to traditional lecture methods on the blackboard as well as PowerPoint presentations. Your will participate in group activities and collaborative learning will be used to discuss possible solutions to problems as well as to provide critical observation to problem solutions. Formal and informal groups will be formed in class to work together. In some cases, you will be required to work on your own. In those cases, I expect appropriate academic behavior from you. Exchange of information, when forbidden, will not be tolerated.

- You will work both with and without a computer. When working with a computer (your homework activity) you will experiment hands-on with the concepts that have been covered in class. The projects are designed to complement the theoretical studies. Exercises of problem analysis and design, without the use of the computer, will reinforce the ability to strive for the optimal design of a problem’s solution.

- Expect to commit some time each day to practice the syntax of C++, to study the language, to program and to observe, analyze solve and report the solution of the assigned lab problems.

**The Secret Key (not so secret after all!) of how to succeed in this CS class is to:**

1. work conscientiously and do all the homework that has been assigned;
2. extrapolate, from the examples provided to you, techniques and answers to problems;
3. spend several hours at the computer to solve problems as well as reading material;
4. be alert and participate in class discussions;
5. learn from other people mistakes;
6. be critical of your own work. Question every step you are making; ask yourself “Is this step correct?” “Are there other easier or alternative and more efficient steps? Did I use the data structure in the appropriate way?”
7. attend class regularly;
8. spend time studying the theoretical concepts. Memory helps, but it is practice that reinforces the theory;
9. do all the above consistently through the whole semester, be confident about what you are doing and don’t be afraid to ask for help;
10. Think and enjoy!
I am very confident that you can make the above commitment and that you can maintain it during the semester. I am sure that you have all the ability to be successful!

Exams

There will be 2 100-points Mid-Term Exams which will cover the topics of the previous 5 weeks.

The 100-points Final Exam will cover the topics of the last 5 weeks of the course.

All exams are closed books, closed notes.

Retake exams are not available.

Make-up exams will only be given in case of serious need (written verification for your inability to take an exam is required) and only when I have been notified prior to the exam being issued, otherwise you are considered absent for that exam and the grade of your exam is automatically 0.

Grading

Your grade will be based on
1. Your homework and group projects
2. Your participation in discussions concerning the homework, class topics, and material
3. Your laboratory attendance and activity.
4. Your exams

The COURSE is formed of two independent parts.

TO PASS THE COURSE, YOU MUST PASS EACH PART GIVEN BELOW INDEPENDENTLY!

---- i.e. an A in PART II and an F in PART I, is NOT a passing grade.

Part I
Laboratory Attendance and Reports 30%

Penalty for late lab report: 3 points × day

Part II
Homework and Class Participation 10%

Penalty for homework: 3 points × day

Exam 1 20%
Exam 2 20%
Final Exam 20%
<table>
<thead>
<tr>
<th>Points</th>
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<tr>
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<td>F</td>
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**Course Withdrawal**

If you are considering withdrawing from this course, please inform your instructor and consult a staff member in the Student Services Office, 134 Main Hall. Withdrawal from a course can affect financial aid, student status, or progress within your major. For withdrawal deadlines, please refer to [http://www.registrars.kent.edu/home/TermUpdate/sche_adj.htm](http://www.registrars.kent.edu/home/TermUpdate/sche_adj.htm).

**Academic Honesty Policy**

When assignments must be individually and independently done, if some students turn in substantially the same solution or program of another student, in my judgment, the solution will be considered a group effort. All involved in the group effort homework will receive a zero grade for that assignment. Policy on academic dishonesty involving programming can be found at [http://www.cs.kent.edu/programs/grad/DishonestyPolicy.pdf](http://www.cs.kent.edu/programs/grad/DishonestyPolicy.pdf). A condensed version of the Administrative Policy And Procedures Regarding Student Cheating And Plagiarism has been added to the last page of this syllabus.

Use of the intellectual property of others without attributing it to them is considered a serious academic offense. Cheating or plagiarism will result in a failing grade for the work or for the entire course. Repeat offenses result in dismissal from the University. University guidelines require that all infractions be reported to the Student Conduct Officer on our campus (see Academic Sanctions below).

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**Important Dates to Remember:**
- Last day to withdraw *before grade W* is assigned, is Feb 1, 2009
- Last day to drop the class is April 5, 2009
- Exam 1 is Thursday, Feb 19
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- Final Exam is Tuesday, May 12 (1:00pm – 3:00pm)

**Spring Recess:** March 23 – March 29
**Classes End:** May 10, 2009

**Tentative Outline of the Course**

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<thead>
<tr>
<th>Date</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 20</td>
<td>Introduction to C++</td>
</tr>
<tr>
<td>Jan 22</td>
<td>Introduction to C++</td>
</tr>
<tr>
<td>Jan 27</td>
<td>Basic C++: Variables and I/O</td>
</tr>
<tr>
<td>Jan 29</td>
<td>Basic C++: Control Flow</td>
</tr>
<tr>
<td>Feb 3</td>
<td>Applications of C++ Statements</td>
</tr>
<tr>
<td>Feb 5</td>
<td>Procedural Abstraction and Functions that return a value</td>
</tr>
<tr>
<td>Feb 10</td>
<td>Procedural Abstraction and Functions that return a value</td>
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<tr>
<td>Feb 12</td>
<td>Functions for all Subtasks</td>
</tr>
<tr>
<td>Feb 17</td>
<td>Review and practice</td>
</tr>
<tr>
<td>Date</td>
<td>Event</td>
</tr>
<tr>
<td>----------</td>
<td>--------------------------------------------</td>
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<tr>
<td>Feb 19</td>
<td>Exam 1</td>
</tr>
<tr>
<td>Feb 24</td>
<td>I/O Streams</td>
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<tr>
<td>Feb 26</td>
<td>I/O Streams</td>
</tr>
<tr>
<td>Mar 3</td>
<td>I/O Streams. Classes</td>
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<td>Mar 5</td>
<td>Classes</td>
</tr>
<tr>
<td>Mar 4</td>
<td>Classes</td>
</tr>
<tr>
<td>Mar 10</td>
<td>Abstract Data types: Structures definition, Classes</td>
</tr>
<tr>
<td>Mar 12</td>
<td>More Flow of Control</td>
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<tr>
<td>Mar 17</td>
<td>Review and practice</td>
</tr>
<tr>
<td>Mar 19</td>
<td>Exam 2</td>
</tr>
<tr>
<td>Mar 23-29</td>
<td>Spring Recess</td>
</tr>
<tr>
<td>Mar 31</td>
<td>Loop control. Testing</td>
</tr>
<tr>
<td>Apr 2</td>
<td>Graphics</td>
</tr>
<tr>
<td>Apr 7</td>
<td>Arrays</td>
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<tr>
<td>Apr 9</td>
<td>Arrays</td>
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<tr>
<td>Apr 14</td>
<td>Review and Practice</td>
</tr>
<tr>
<td>Apr 16</td>
<td>Two Dimensional Arrays and C_Strings</td>
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<tr>
<td>Apr 21</td>
<td>Strings and Intro to Vectors</td>
</tr>
<tr>
<td>Apr 23</td>
<td>Vectors and Intro to Pointers</td>
</tr>
<tr>
<td>Apr 28</td>
<td>Pointers and Dynamic Array</td>
</tr>
<tr>
<td>Apr 30</td>
<td>Project Presentations</td>
</tr>
<tr>
<td>May 5</td>
<td>Review and Practice</td>
</tr>
<tr>
<td>Tuesday, May 12</td>
<td>1:00pm-3:00pm</td>
</tr>
<tr>
<td>May 12</td>
<td>Final Exam (comprehensive)</td>
</tr>
</tbody>
</table>

**ADMINISTRATIVE POLICY AND PROCEDURES REGARDING STUDENT CHEATING AND PLAGIARISM**

*Condensed Version*

For complete policy and procedure go to [www.kent.edu/policyregister](http://www.kent.edu/policyregister) 3342-3-01.8.

Cheating and plagiarism constitute fraudulent misrepresentation for which no credit can be given and for which appropriate sanctions are warranted and will be applied.

The university affirms that acts of cheating and plagiarism by students constitute a subversion of the goals of the institution, have no place in the university and are serious offenses to academic goals and objectives, as well as to the rights of fellow students.

“Cheat” means to intentionally misrepresent the source, nature, or other conditions of academic work so as to accrue undeserved credit, or to cooperate with someone else in such misrepresentation. **Cheating includes, but is not limited to:**

1. Obtaining or retaining partial or whole copies of examinations, tests or quizzes before these are distributed for student use;
2. Using notes, textbooks or other information in examinations, tests and quizzes except as expressly permitted;
3. Obtaining confidential information about examinations, tests or quizzes other than that released by the instructor;
4. Securing, giving or exchanging information during examinations;
5. Presenting data or other material gathered by another person or group as one’s own;
6. Falsifying experimental data or information;
7. Having another person take one’s place for any academic performance without the specific knowledge and permission of the instructor;
8. Cooperating with another to do one or more of the above;
9. Using a substantial portion of a piece of work previously submitted for another course or program to meet the requirements of the present course or program without notifying the instructor to whom the work is presented; and
10. Presenting falsified information in order to postpone or avoid examinations, tests, quizzes or other academic work.

“Plagiarize” means to take and present as one’s own a material portion of the ideas or words of another person or to present as one’s own an idea or work derived from an existing source without full and proper credit to the source of the ideas, words, or works. As defined, plagiarize includes, but is not limited to:

a. The copying of words, sentences and paragraphs directly from the work of another without proper credit;
"Plagiarize" means to take and present as one’s own a material portion of the ideas or words of another person or to present as one’s own an idea or work derived from an existing source without full and proper credit to the source of the ideas, words, or works. As defined, plagiarize includes, but is not limited to:

b. The copying of illustrations, figures, photographs, drawings, models, or other visual and nonverbal materials, including recordings of another without proper credit; and
c. The presentation of work prepared by another in final or draft form as one’s own without citing the source, such as the use of purchased research papers.

STUDENT CHEATING AND PLAGIARISM: ACADEMIC SANCTIONS

The following academic sanctions are provided by this rule for offenses of cheating or plagiarism. Kent campus instructors shall notify the department chairperson and the student conduct office each time a sanction is imposed. Regional campus instructors shall notify the regional campus dean and the student conduct officer each time a sanction is imposed. Regional campus student conduct officer shall notify the Kent student conduct office each time a sanction is imposed by a regional campus Instructor. The following academic sanctions are provided by this rule for offenses of cheating or plagiarism. In those cases the instructor may:

1. Refuse to accept the work for credit; or
2. Assign a grade of “F” or zero for the project, test, paper, examination or other work in which the cheating or plagiarism takes place; or
3. Assign a grade of “F” for the course in which the cheating or plagiarism took place; and/or;
4. Recommend to the department chair or regional campus dean that further action specified in the rule be taken. The department chairperson or regional campus dean shall determine whether or not to forward to the academic dean or to the vice president for the extended university a recommendation for further sanction under this rule.

For information regarding the academic appeals procedure, please refer to page 107 of the 2008-2009 FlashGuide
Spring 2009

CS 23022 Section 600
Discrete Structures for Computer Science

Department of Computer Science
Kent State University Stark

TR 5:30 PM - 6:45 PM Room MH 219

Professor: Dr. Angela Guercio
Office: 424, Main Hall
Phone: 330 244-3424 (KSU ext. 53424)
Office Hours: TR 11:30am - 1:30pm 4:35pm -5:15pm  F 10:15am - 10:55am
other times are available by appointment
Best way to contact me: e-mail to aguercio@kent.edu

Course Information

<table>
<thead>
<tr>
<th>Class Webpage:</th>
<th><a href="http://www.personal.kent.edu/~aguercio/Spring09/CS23022Sp09.html">http://www.personal.kent.edu/~aguercio/Spring09/CS23022Sp09.html</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>■ all important class information will be posted on the class webpage, readings, assignments, notes, deadlines, cancellations, etc..</td>
<td></td>
</tr>
<tr>
<td>■ You must CHECK THE CLASS WEBSITE REGULARLY!!!</td>
<td></td>
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</tbody>
</table>

Prerequisites:
CS10051, MATH 12001 or MATH 11022 or appropriate placement test score into MATH 12002. For more details on course dependences, visit http://www.cs.kent.edu/programs/ugrad/planner.html

Credit: 3 Credit Hours

Required Text:
Emergency: In case of an emergency please contact the security on campus.

- Security phone on campus: #53123
- Security cell phone (330) 705-0430 or, of course, 911.
I recommend that you program into your cell phone the previous numbers.

Course Description and Objectives

This course will introduce you to the discrete mathematics from the perspective of a computer science scientist. The course focuses on Sets, Relations, Formal Logic, Functions, Analysis of Algorithms and Graph Theory. The objectives of the course is to develop the ability to follow and write mathematical proofs and to strengthen the algorithmic thinking.

Class Requirements and Expectations

- Regular class attendance is REQUIRED.

  There tends to be a strong correlation between class attendance and grade performance. If you will miss a class, let me know ahead of time. In any case, you are responsible for bringing yourself up to date on class material and assignments.

  Since class participation and regular attendance are part of the final grade, if you miss more than 3 classes without a documented reason or without making prior arrangements with me, your final grade will be dropped one grade (A to B, B+ to C+ and so on).

- Reading ahead is REQUIRED.

  The readings are posted online on the class webpage. You must read the material before class and again after the class.

  Regular study of the material is REQUIRED.

- COMPLETE the assigned homework (i.e. projects and exercises).

  There will be 10 assignments in the course. I will retain the right to change the number of assignments if necessary.

  The class webpage will list the assignments for each week at the beginning of that week so that you can better schedule your work.
• **REVIEW the graded Homework/Projects.**

  Homework and Projects will be graded and difficulties will be discussed in class. Review the mistakes after discussion and learn from them.

  Late Homework/Projects will not be accepted if returned after the solution is given or discussed.

  If you have difficulties doing your homework or your project please contact me or come to see me. **Do not procrastinate! Homework and Projects should be started immediately.**

• **Return work ON TIME**

  All the homework should be printed any time it is possible and e-mailed as an attachment to aguercio@kent.edu. In any case a printed copy or a hand written copy MUST be returned to the instructor as well unless stated otherwise.

  **All handwritten homework should be readable.** Unreadable homework will NOT be graded! If you realize that the homework you are going to return is not neat, clearly organized and easily readable, please copy it on a new page.

  All homework, printed or handwritten are due **before or at the beginning of class.** Late homework will get **3 points per day penalty** including those returned after the beginning of class.

  For all e-mailed homework, the instructor will acknowledge the receipt within 24 hours via e-mail. The time of your e-mail will be compared against the deadline of your homework. The reply is your receipt that the work has been turned in (not that the homework is correct!). If you do not receive a receipt, it is YOUR responsibility to contact me to see if the assignment has been lost in transmission. **Important:** once you submit your files **DO NOT OPEN THEM AGAIN!** If your e-mail didn’t reach me or something happened to your files, I may need to ask you to resubmit your files by logging on in my presence to check the modification dates on your files and make sure that they haven’t been modified after the due date.

**What to expect to find in your Computer Architecture class**

- The class should be interactive. In-class exercises are designed to encourage participation. There will be cooperation between you and I, open discussions about problems and possible solutions. You are responsible for taking good notes. Handouts will be given only when necessary.

- You will present proofs to other students, your will participate in group activities and collaborative learning will be used to discuss possible solutions to problems as well as to
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Expect to commit some times to practice problems. You will find that the reading will go very slow and that you need to reread the material several times before you master it.

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1. work conscientiously and do all the homework that has been assigned;
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There will be 3 100-points Term Exams which will cover the topics of the previous weeks.

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Pop Quizzes
Pop Quizzes will be issued. The date of the quiz will NOT be announced. A pop quiz is held during the first 10 minutes of the class. Late students will not be given extra time to complete the quiz. No late quizzes will be accepted; no make-up quizzes.

Grading

Your grade will be based on
1. Your homework
2. Your participation in discussions concerning the homework, class topics, and reading material
3. Your attendance in class
4. Your Pop Quiz results
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<td>Introduction to the Course - Sets</td>
</tr>
<tr>
<td>Jan 22</td>
<td>Sets and Operation on Sets</td>
</tr>
<tr>
<td>Jan 27</td>
<td>Proof Templates</td>
</tr>
<tr>
<td>Jan 29</td>
<td>The Principle of Inclusion-Exclusion</td>
</tr>
<tr>
<td>Feb 3</td>
<td>Mathematical Induction</td>
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<td>Feb 5</td>
<td>Application of Induction - Recursion</td>
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<td>Feb 10</td>
<td>Strong Form of Mathematical Induction and Application</td>
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<tr>
<td>Feb 12</td>
<td>Program Correctness</td>
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<tr>
<td>Feb 17</td>
<td>Review and Practice</td>
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<tr>
<td><strong>Feb 19</strong></td>
<td><strong>Exam 1</strong></td>
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<tr>
<td>Feb 24</td>
<td>Introduction to Propositional Logic</td>
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<td>Feb 26</td>
<td>Truth and Logical Truth</td>
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<td>Mar 3</td>
<td>Normal Forms</td>
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<td>Mar 5</td>
<td>Predicates and Quantification</td>
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<td>Mar 4</td>
<td>Review and Practice</td>
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<td><strong>Mar 10</strong></td>
<td><strong>Exam 2</strong></td>
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<td>Mar 12</td>
<td>Relations – Definitions and Operations</td>
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<td>Mar 17</td>
<td>Special Types of Relations</td>
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<td>Mar 19</td>
<td>Equivalence Relations</td>
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<td><strong>Mar 23-29</strong></td>
<td><strong>Spring Recess</strong></td>
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<td>Mar 31</td>
<td>Partitions and Equivalence Classes</td>
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<td>Apr 2</td>
<td>Partial Ordering</td>
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<td>Apr 7</td>
<td>Review and Practice</td>
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<td><strong>Apr 9</strong></td>
<td><strong>Exam 3</strong></td>
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<tr>
<td>Apr 14</td>
<td>Functions</td>
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<tr>
<td>Apr 16</td>
<td>Operations on functions</td>
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<td>Apr 21</td>
<td>Sequences and Subsequences Countable and Uncountable Sets – Power Set</td>
</tr>
<tr>
<td>Apr 23</td>
<td>Analysis of Algorithms - Computability and Uncomputability</td>
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<tr>
<td>Apr 28</td>
<td>Graph Theory –Path and Cycles</td>
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<td>Apr 30</td>
<td>Connected Graphs – Graphs visit</td>
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<tr>
<td>May 5</td>
<td>Trees – Spanning Trees</td>
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<tr>
<td>May 7</td>
<td>Review and Practice</td>
</tr>
<tr>
<td>May 14</td>
<td>6:00pm–8:00pm - Final Exam</td>
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</tbody>
</table>
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6. Falsifying experimental data or information;
7. Having another person take one’s place for any academic performance without the specific knowledge and permission of the instructor;
8. Cooperating with another to do one or more of the above;
9. Using a substantial portion of a piece of work previously submitted for another course or program to meet the requirements of the present course or program without notifying the instructor to whom the work is presented; and
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a. The copying of words, sentences and paragraphs directly from the work of another without proper credit;
b. The copying of illustrations, figures, photographs, drawings, models, or other visual and nonverbal materials, including recordings of another without proper credit; and
c. The presentation of work prepared by another in final or draft form as one’s own without citing the source, such as the use of purchased research papers.

**STUDENT CHEATING AND PLAGIARISM: ACADEMIC SANCTIONS**

The following academic sanctions are provided by this rule for offenses of cheating or plagiarism. Kent campus instructors shall notify the department chairperson and the student conduct office each time a sanction is imposed. Regional campus instructors shall notify the regional campus dean and the student conduct officer each time a sanction is imposed. Regional campus student conduct officer shall notify the Kent student conduct office each time a sanction is imposed by a regional campus instructor. The following academic sanctions are provided by this rule for offenses of cheating or plagiarism. In those cases the instructor may:

1. Refuse to accept the work for credit; or
2. Assign a grade of “F” or zero for the project, test, paper, examination or other work in which the cheating or plagiarism takes place; or
3. Assign a grade of “F” for the course in which the cheating or plagiarism took place; and/or;
4. Recommend to the department chair or regional campus dean that further action specified in the rule be taken. The department chairperson or regional campus dean shall determine whether or not to forward the academic dean or to the vice president for the extended university a recommendation for further sanction under this rule.

For information regarding the academic appeals procedure, please refer to page 107 of the 2008-2009 FlashGuide
Spring 2009

CS 43901 Section 600
Software Engineering

Department of Computer Science
Kent State University Stark

F 11:00 AM – 1:30 PM Room MH 303

Professor: Dr. Angela Guercio
Office: 424, Main Hall
Phone: 330 244-3424 (KSU ext. 53424)
Office Hours: TR 11:30am - 1:30pm 4:35pm -5:15pm  F 10:15am - 10:55am
other times are available by appointment
Best way to contact me: e-mail to aguercio@kent.edu

Course Information

Class Webpage: http://www.personal.kent.edu/~aguercio/Spring09/CS43901Sp09.html
- all important class information will be posted on the class webpage, readings, assignments, notes, deadlines, cancellations, etc..
- You must CHECK THE CLASS WEBSITE REGULARLY!!!

Prerequisites: CS 33001 with a grade of C or better. This means that a C- in CS10051 is not sufficient to meet the prerequisite.
For more details on course dependences, visit http://www.cs.kent.edu/programs/ugrad/planner.html

Credit: 3 Credit Hours

Required Text:

The e-book is available on Safari that you can access via the Kent Library/Ohio Link
Emergency: In case of an emergency please contact the security on campus.

Security phone on campus: #53123
Security cell phone (330) 705-0430 or, of course, 911.

I recommend that you program into your cell phone the previous numbers.

Course Description and Objectives

To this course in an introduction to software engineering concepts: life cycle models; modeling languages; requirements analysis; specification; design; testing; validation; project management; and maintenance. The objectives of the course are to develop the ability to master the notation and the process of the object-oriented analysis and design and to experiment the concepts through some realistic applications.

Class Requirements and Expectations

- Regular class attendance is REQUIRED.

There tends to be a strong correlation between class attendance and grade performance. If you will miss a class, let me know ahead of time. In any case, you are responsible for bringing yourself up to date on class material and assignments.

Since class participation and regular attendance are part of the final grade, if you miss more than 3 classes without a documented reason or without making prior arrangements with me, your final grade will be dropped one grade (A to B, B+ to C+ and so on).

- Reading ahead is REQUIRED.

The readings are posted online on the class webpage. You must read the material before class and again after the class.

Regular study of the material is REQUIRED.

- COMPLETE the assigned homework (i.e. Assignments and exercises).

There will be 4 assignments in the course. I will retain the right to change the number of assignments if necessary.
The class webpage will list the assignments for each week at the beginning of that week so that you can better schedule your work.

• REVIEW the graded Homework/Assignments.

Homework will be short exercises completed in class or due at the next class period. Review the mistakes after discussion and learn from them.

Assignments are larger exercises and will be assigned periodically through the semester. Review the mistakes after grading and discussion and learn from them.

Late Homework/Assignments will not be accepted if returned after the solution is given or discussed.

If you have difficulties doing your homework or your project please contact me or come to see me. Do not procrastinate! Homework and Assignments should be started immediately.

• Return work ON TIME

All the homework must be printed and e-mailed as an attachment to aguercio@kent.edu. In any case a printed copy MUST be returned to the instructor as well unless stated otherwise.

All homework, printed or handwritten are due before or at the beginning of class. Late homework will get 3 points per day penalty including those returned after the beginning of class.

For all e-mailed homework, the instructor will acknowledge the receipt within 24 hours via e-mail. The time of your e-mail will be compared against the deadline of your homework. The reply is your receipt that the work has been turned in (not that the homework is correct!). If you do not receive a receipt, it is YOUR responsibility to contact me to see if the assignment has been lost in transmission. Important: once you submit your files DO NOT OPEN THEM AGAIN! If your e-mail didn’t reach me or something happened to your files, I may need to ask you to resubmit your files by logging on in my presence to check the modification dates on your files and make sure that they haven’t been modified after the due date.

What to expect to find in your Computer Architecture class

✦ The class should be interactive. In-class exercises are designed to encourage participation. There will be cooperation between you and I, open discussions about problems and possible solutions. You are responsible for taking good notes. Handouts will be given only when necessary.
You will present proofs to other students, your will participate in group activities and collaborative learning will be used to discuss possible solutions to problems as well as to provide critical observation to problem solutions. Formal and informal groups will be formed in class to work together. In some cases, you will be required to work on your own. In those cases, I expect an appropriate academic behavior from you. Exchange of information, when forbidden, will not be tolerated.

Expect to commit some times to practice problems. You will find that the reading will go very slow and that you need to reread the material several times before you master it.

The Secret Key (not so secret after all!) of how to succeed in a CS class is to:

1. work conscientiously and do all the homework that has been assigned;
2. extrapolate from the examples provided to you, techniques and answers to problems;
3. spend several hours practicing;
4. be alert and participate in class discussions;
5. learn from other people mistakes;
6. Think! Use your logic and be critical of your own work.
7. attend the class and read the material ahead of time;
8. spend time studying the theoretical concepts. Memory helps, but it is practice that reinforces the understanding of the theory;
9. do all the above consistently through the whole semester, be confident about what you are doing and don’t be afraid to ask for help;
10. Think, think, think and enjoy!

I am very confident that you can make the above commitment and that you can maintain it during the semester. I am sure that you have all the ability to be successful!

Exams

There will be 2 Mid-Term Exams which will cover the topics of the previous weeks.

The 100-points Final Exam is comprehensive.

All exams are closed books, closed notes.

Retake exams are not available.

Make-up exams will only be given in case of serious need (written verification for your inability to take an exam is required) and only when I have been notified prior to the exam being issued, otherwise you are considered absent for that exam and the grade of your exam is automatically 0.

Grading
Your grade will be based on
1. Your homework
2. Your participation in discussions concerning the homework, class topics, and reading material
3. Your class attendance
4. Your assignments
5. Your exams

Homework 10%
Assignments 35%
Class Participation 5%
Exam 1 15%
Exam 2 15%
Final Exam 20%

<table>
<thead>
<tr>
<th>Points</th>
<th>Grade</th>
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<tbody>
<tr>
<td>92.5-100</td>
<td>A</td>
</tr>
<tr>
<td>89.5-92.4</td>
<td>A-</td>
</tr>
<tr>
<td>87-89.5</td>
<td>B+</td>
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<tr>
<td>82.5-86.9</td>
<td>B</td>
</tr>
<tr>
<td>79.8-82.4</td>
<td>B-</td>
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<tr>
<td>77-79.8</td>
<td>C+</td>
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<tr>
<td>72-76.9</td>
<td>C</td>
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<tr>
<td>70-72</td>
<td>C-</td>
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<tr>
<td>60-69.9</td>
<td>D</td>
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<tr>
<td>00-59.9</td>
<td>F</td>
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</tbody>
</table>

Even though I have never found it necessary to change the grading distribution and the number of assignments and exams specified in the syllabus during the semester, I reserve the right to change the method of assigning grades, including changing the number of assignments or exams if I consider it necessary.

Course Withdrawal
If you are considering withdrawing from this course, please inform your instructor and consult a staff member in the Student Services Office, 134 Main Hall. Withdrawal from a course can affect financial aid, student status, or progress within your major. For withdrawal deadlines, please refer to [http://www.registrars.kent.edu/home/TermUpdate/sche_adj.htm](http://www.registrars.kent.edu/home/TermUpdate/sche_adj.htm).

Academic Honesty Policy
When assignments must be individually and independently done, if some students turn in substantially the same solution or program of another student, in my judgment, the solution will be considered a group effort. All involved in the group effort homework will receive a zero grade for that assignment. Policy on academic dishonesty involving programming can be found at [http://www.cs.kent.edu/programs/grad/DishonestyPolicy.pdf](http://www.cs.kent.edu/programs/grad/DishonestyPolicy.pdf). A condensed version of the
Administrative Policy And Procedures Regarding Student Cheating And Plagiarism has been added to the last page of this syllabus. Use of the intellectual property of others without attributing it to them is considered a serious academic offense. Cheating or plagiarism will result in a failing grade for the work or for the entire course. Repeat offenses result in dismissal from the University. University guidelines require that all infractions be reported to the Student Conduct Officer on our campus (see Academic Sanctions below).

Students with Disabilities
Kent State University recognizes its responsibility for creating an institution atmosphere in which students with disabilities can succeed. In accordance with University Policy Subpart E…104.44, if you have a documented disability, you may request accommodations to obtain equal access in this class. Please contact the disability coordinator on campus, Kelly Kulick in Student Accessibility Services, located in the Student Success Center, lower level of the Campus Center, phone (330) 244-5047, or kkulick@kent.edu. After your eligibility for accommodations is determined, you will be given a letter which, when presented to instructors, will help us know best how to assist you.

Classes Canceled – Campus Closings
Announcements of class cancellations and/or campus closings will be made on the campus home page. In the case of an emergency, weather-related or otherwise, please check the web page at http://www.stark.kent.edu for information on the buildings and times of the closing. While information may be broadcast by radio and television, this should be confirmed by the web page, which is the official announcement of the campus and which will be the information used to determine issues related to student attendance, rescheduling of tests, and other concerns.

Conduct
Students and faculty behavior at the Stark Campus is governed by the guidelines set forth in The Digest of Rules and Regulations. That document can be found in the University telephone directory. Information can be found at the Office of Judicial Affairs at http://www.kent.edu/administration/emsa/judicial.cfm.

Recycling
KSU Stark Campus recycles. Recycling saves energy, which is currently generated by expensive and vanishing fossil fuels. Recycling one aluminum can saves enough energy to run a TV for three hours! Please take a few seconds to separate your trash. Aluminum cans and plastic and glass bottles may be placed in the blue recycling bins, and all types of paper may be placed in the blue recycling trash cans. All other waste may be placed in the black, brown or gray trash cans.

Important Dates to Remember:
- Last day to withdraw before grade W is assigned, is Feb 1, 2009
- Last day to drop the class is April 5, 2009
- Exam 1 is Friday, Feb 27
- Exam 2 is Friday, April 10
- Final Exam (comprehensive) is Friday, May 15 (10:30am – 12:30pm)

Spring Recess: March 23 – March 29
Classes End: May 10, 2009
Tentative Outline of the Course
We will cover one chapter per week from the book. Other material and reading sources will be done in class at the appropriate time

ADMINISTRATIVE POLICY AND PROCEDURES REGARDING
STUDENT CHEATING AND PLAGIARISM

Condensed Version

For complete policy and procedure go to www.kent.edu/policyregister 3342-3-01.8.

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