Computer Science 1323
Section 010, Spring 2010

1.0 General Information

Class Time: 10:30A-11:20P MWF
Class Location: SEC A235 (Sarkeys Energy Center)
Laboratory Time: 8:30A-10:20A (Section 11) or 10:30P-12:20P (Section 12) or 12:30P-2:20P (Section 13) on Tuesdays.
Laboratory Location: Adams Hall room 355

Prerequisites: Math 1523 or equivalent. No prior programming experience is assumed, although prior programming experience is helpful. Students with little computer experience may want to consider taking CS 1313 before or instead of this class, although this is not required.

Advanced Standing: Students with significant programming experience in C, Java or C++ are strongly encouraged to take the advanced standing examination by calling 325-1208 and scheduling time to take the examination. If the exam is passed, we will arrange for students to be added to CS 2334.

Instructor: Sylvain Guinepain
Office: 210 Devon Energy Hall
Class home page: http://learn.ou.edu
Email: Sylvain.Guinepain@ou.edu
My office hours are: M: 9:30-10:30, Th: 11:00-12:00 and will be held in DEH 115.

The current office hours are located on the course web site and are always posted on my door. Appointments for additional office hours are scheduled through email with 24 hour advanced notice.

Working laptop computer with a wireless network card and ample battery capacity for a two hour laboratory without plugging into an outlet. Java JDK 6 (update 18), and the associated documentation from java.sun.com.
Recommended Material: Eclipse IDE for Java Developers (from Eclipse.org). Zip file creation and extraction software, such as
ZipGenius 6.0 (from http://www.zipgenius.it/index_eng.htm). Other software may be used provided that it is freeware, shareware, or legally licensed. Using the 30 day demo version of software like Winzip throughout the full time period of the course is unacceptable.

**Teaching Assistants:** We have two teaching assistants this semester. Their office hours are in the table below.

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Email</th>
<th>Sec</th>
<th>Office</th>
<th>Mon</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sylvain Guinepain</td>
<td><a href="mailto:Sylvain.Guinepain@ou.edu">Sylvain.Guinepain@ou.edu</a></td>
<td>010</td>
<td>DEH 115</td>
<td>9:30-10:30</td>
<td>11-12</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>011</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Nic Grounds</td>
<td><a href="mailto:nicolas.grounds@riskmetrics.com">nicolas.grounds@riskmetrics.com</a></td>
<td>012</td>
<td>DEH 115</td>
<td>11:30-12:30</td>
<td>4-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tom Palmer</td>
<td><a href="mailto:tjpalmer@tjpalmer.com">tjpalmer@tjpalmer.com</a></td>
<td>013</td>
<td>DEH 115</td>
<td>1-2</td>
<td></td>
<td>1-2</td>
<td></td>
</tr>
</tbody>
</table>

**2.0 Topical Coverage**

I expect to cover approximately Chapter 1-11, 17, 19, and 18 if time permits in Liang during the course of the semester. Topics: Objects, Classes, Methods, Compilation, Execution, Numerical Data, Defining Your Own Classes, Selection Statements, Repetition Statements, Characters and Strings, Arrays, Procedural Abstraction, Searching and Sorting.

**3.0 Course Policies**

**Class Attendance:** Class attendance is important because we will discuss concepts and examples that are not in the textbook. You are responsible for everything that is announced in class, independently of whether you choose to attend or not.

**Laboratory Attendance:** During the laboratory, students will be able to work in pairs and sometimes required to work in small groups. Students who do not attend laboratory will not get credit for these assignments.

**Class Home Page:** This class will use Desire2Learn software for our home page. The URL for the home page is [http://learn.ou.edu](http://learn.ou.edu). Login with your 4+4 (first four letters of your last name followed by the last four digits of your student number), using your standard OU password. If you have difficulty logging in, call 325-HELP. This software provides a number of useful features, including a list of
assignments and announcements, an electronic mailing list, newsgroups, and grade book. The TAs and I update this web site several times a week. You should check the site daily. You are responsible for things posted on the site with a 24 hour delay.

**Class Email Alias:** Urgent announcements will be sent through email. It is your responsibility to:

- Have your university supplied email account forwarded to the location where you read email.
- Make sure that your email address on the course home page is correct, and forwards email to the place where you read it. I’ll send out a test message during the first week of class. If you do not receive this message, it is your responsibility to get the problem resolved.
- Have your email program set up so that replying to your email will work correctly. You can send email to yourself and reply to yourself to test this. If you need assistance in accomplishing any of these tasks, contact 325-HELP.

**Examinations:** There will be two midterm examinations and a final examination. Tentative dates for the examinations are given in the class schedule posted on the course home page. During examinations students must sit in assigned seats. Missing an examination without a previously approved excuse will result in a grade of zero for that examination. If an examination is missed for a verifiable, documented, and approved reason the percentage of the grade coming from the final examination will be increased to 35 or 40% (depending on whether the first or second examination was missed). Makeup examinations are never available, except as required by university policy.

**Final Examination:** The final examination is on Tuesday May 11th, from 8:00 AM – 10:00 AM. The final is comprehensive, as required by College of Engineering policy. No final examinations can be given early, except as required by University policy.

**Discussion Groups and Email:** The discussion group on the course home page should be the primary method of communication, outside of class. This allows everyone in the class to benefit from the answer to your question, and provides students with more timely answers since all three TAs and I check the discussion group regularly. Matters of personal interest should be directed to email instead of to the newsgroup, e.g. informing me of an extended personal illness. Posting guidelines for the newsgroup are linked on the home page.
Laptop Computers: It is the responsibility of each student in this class to have a working laptop computer with ample battery and wireless internet connectivity available for every laboratory session. If your computer requires repair during the semester, it is your responsibility to make arrangements to have another computer available for laboratory use. We have a limited number of power outlets and wired internet ports in our laboratory that are shared by forty students. A student without a fully usable laptop computer will be at a severe disadvantage in this class.

Academic Misconduct: All work submitted for an individual grade, such as homework, should be the work of that single individual: not their friends, the TAs, nor their tutor.

Do not show another student a copy of your homework before the submission deadline. The penalties for permitting your work to be copied are the same as the penalties for copying someone else’s work. If you choose to do your work on your computer, make sure that your computer account is properly protected. Use a good password, and do not give your friends access to your account or your computer system.

Do not leave printouts, or thumb drives around a laboratory where others might access them.

Upon the first documented occurrence of collaborative work, I will report the academic misconduct to the Campus Judicial Coordinator. The procedure to be followed is documented in the University of Oklahoma Academic Misconduct Code (http://www.ou.edu/studentcode). In the event that I elect to admonish the student, the appeals process is described in http://www.ou.edu/provost/integrity-rights/.

Tutors: Tutors can be an excellent source of support for students who are having difficulty in the class, but only if the tutor is aware of the distinction between teaching students the material so that they can do their own work, and doing work for students. Tutors who do work for students are not only failing to help the students learn, they are abetting academic misconduct.

If your tutor is methodically telling you what to write, he or she is abetting academic misconduct. If you tutor is emailing files containing partial or complete assignments to you, you will commit academic misconduct if you turn them in.
A more effective use of tutoring services is to do problems that are similar to the assigned work, instead of doing assigned work. For example, it would be fine to work unassigned problems from the textbook with a tutor. This requires significant discipline, both on the part of the tutor and the part of the student. Copying from a tutor is as unacceptable as copying from another student. If your tutor doesn’t know how to teach properly, please ask them to call or visit me and I will provide training and guidance. If you are tutoring someone else in the class, you can be accused of academic misconduct if this person copies your work.

Incompletes: The grade of I is intended for the rare circumstance when a student who has been successful in a class has an unexpected event occur shortly before the end of the class. I will not consider giving a student a grade of I unless the following three conditions have been met.
1. It is within two weeks of the end of the semester.
2. The student has a grade of C or better in the class.
3. The reason that the student cannot complete the class is properly documented and compelling.

Accommodation of Disabilities: The University of Oklahoma is committed to providing reasonable accommodation for all students with disabilities. Students with disabilities who require accommodations in this course are requested to speak with the professor as early in the semester as possible. Students with disabilities must be registered with the Office of Disability Services prior to receiving accommodations in this course. The Office of Disability Services is located in Goddard Health Center, Suite 166, phone 405/325-3852 or TDD only 405/325-4173.

Cancelled Classes: Classes are cancelled on the following days for the following reasons.

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>Jan 18th</td>
<td>Martin Luther King Jr. Day</td>
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<tr>
<td></td>
<td>March 13th – March 21st</td>
<td>Spring Vacation</td>
</tr>
</tbody>
</table>

University Deadlines: The table below summarizes important deadlines for students at the University of Oklahoma. It is the
responsibility of the student to keep track of these deadlines if they may wish to withdraw from this class. Be warned that I follow university policy extremely literally. During the period when withdrawal can result in either a W or an F, I will give a W only if the student is receiving a D or better in the class.

<table>
<thead>
<tr>
<th>Event</th>
<th>Last Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last Day to Add</td>
<td>1/22</td>
</tr>
<tr>
<td>Last Day to Drop With Refund</td>
<td>2/1</td>
</tr>
<tr>
<td>Last Day to Drop With Automatic W</td>
<td>2/26</td>
</tr>
<tr>
<td>Last Day to Change to Audit</td>
<td>4/2</td>
</tr>
<tr>
<td>Drop with Grade of W/F without permission of the Dean</td>
<td>4/2</td>
</tr>
</tbody>
</table>

**Classroom Conduct:** Disruptions of class will not be permitted. Examples of disruptive behavior include:

- Allowing a cell phone or pager to repeatedly beep audibly.
- Playing music or computer games during class in such a way that they are visible or audible to other class members.
- Exhibiting erratic or irrational behavior.
- Behavior that distracts the class from the subject matter or discussion.
- Making physical or verbal threats to a faculty member, teaching assistant, or class member.
- Refusal to comply with faculty direction.
- In the case of disruptive behavior, I may ask that you leave the classroom and may charge you with a violation of the Student Code of Responsibilities and Conduct.

**4.0 Projects, Homework, and Attendance.**

**Language:** We will be using the Java programming language (Java JDK 6, update 18).

**Computer Literacy Expectations:** A list of specific expectations for computer literacy is posted on the course home page. If you do not meet these expectations, it is your responsibility to remedy this situation immediately or drop this class.

**Sharing Resources:** It is common for office hours and laboratory sessions to become very busy immediately before a project or
homework assignment is due. While the TAs and I will make reasonable efforts to meet the needs of as many students as possible, it is often impossible to fully meet the needs of all students during this busy period of time. For example, if there are ten students in my office during a given office hour, each student could expect to receive about six minutes of help. This limited amount of help may not be sufficient. Students who wait until the last minute to get help on projects or homework may have to hire a tutor to get extended help on projects.

**Projects: Incomplete projects may be turned in for partial credit.**
Projects which do not compile will generally receive no credit. Beyond the first two projects, projects that do not execute will generally receive no credit.

**Software Tools:** I recommend that you use Eclipse in this class. If you do not wish to use this software, you may use other Java development environments (a Google search for *Java development freeware* will produce a list). If you use any Java environment other than Eclipse, you will not be able to rely on the TAs or me being sufficiently familiar with your software to help you install it or use it effectively. Using commercial software without proper licensing is illegal, unethical, and absolutely unacceptable in this class.

**Project Strategy:** The grades for projects are determined by how well the material presented meets the objectives stated on the project handout. If you have to turn in an incomplete project, the way to maximize the points received is to meet as many objectives as possible. One effective strategy is to meet objectives one at a time. If you save a copy of our current project to a separate directory when an objective is met, this can prevent many problems.

**Project Submission:** Projects are due by 11:59 p.m. on the selected due date by uploading the project files to the digital dropbox on the course home page for your lab section (not the lecture section where most of the course documents are located). *Do not wait for the last minute to submit a project. Projects submitted late will be penalized by 10% per day up to 70%. After 1 week, the solution for the project will be posted on D2L and project submissions will no longer be accepted.*

**Project Groups:** Some lab time will be spent working in pairs or groups. Students who do not attend laboratory will not get credit for their pair or group’s work. If you choose to pair-program during a lab, you need to explicitly say so in your programming comments at the
top of your files. This is to ensure that your grading TA will not consider your work to be an act of plagiarism.

**Backup Copies of Projects:** It is the students’ responsibility to backup their files appropriately. No extensions to deadlines will be given as a result of lost files, unless there is a massive, network wide problem that affects the entire class. Do not rely on anyone else to backup your important files. Buy a jump drive (or other media) and make backing up your work a routine part of computer usage. Always back up your files at the end of the laboratory session so that both partners have a complete copy at all times. It is particularly important to save a backup copy of any project that is submitted. This backup version should not be opened or edited after submission in case something goes wrong with the submission.

**Homework Submission:** All homework assignments will be submitted electronically and are subject to the same grading rules as projects. (See the paragraph on project submission).

**Quizzes:** Quizzes are optional. They are intended to provide conceptual review for course material. All quizzes are taken electronically under the main lecture section (not your lab section) on Desire2Learn. Quizzes are open book, but do not collaborate with other people. Each quiz will be available for a one-week period and may be taken any number of times during that week. The highest score is kept.

**5.0 Evaluation**

**Grading Questions on Homework, Projects, and Quizzes:** All homework and projects in this class are graded by the teaching assistant assigned to your laboratory section. If you have a question about the grading of these items, please see the teaching assistant who graded the item during his or her office hours. If this does not resolve the problem, stop by my office during office hours and I will review the grading and make a final determination after consultation with the teaching assistant. All disagreements about the grading of projects or homework must be brought to the attention of the teaching assistant within one week of when the item was first returned to students.

**Examination Grading Questions:** If there is a dispute about the
grading of an examination problem, you may stay after class the day the tests are returned to discuss it. If you cannot stay at this time, return the paper to me and stop by during my office hours. Once a test has been removed from the classroom after it has been returned, the grade is final and will not be changed, even if it is found to be in error.

Desire2Learn Grade Summary: Desire2Learn has a grade book that is used to store the raw data that is used to calculate your course grade. It is the responsibility of each student in this class to check their grades on Desire2Learn after each project or homework is returned. If an error is found, bring the grading document to me or your TA, and we will correct it. The grade book does not understand how grades are actually calculated in this class. It therefore may show things like percentages and total points that are incorrect. The correct formulas for calculating grades are given in this document.

Grading: There are 6 components to the course grade. They are weighted as follows.

<table>
<thead>
<tr>
<th>Component</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midterm 1</td>
<td>15</td>
</tr>
<tr>
<td>Midterm 2</td>
<td>15</td>
</tr>
<tr>
<td>Homework</td>
<td>20</td>
</tr>
<tr>
<td>Project</td>
<td>25</td>
</tr>
<tr>
<td>Final</td>
<td>25</td>
</tr>
<tr>
<td>Quizzes</td>
<td>2 (Bonus)</td>
</tr>
</tbody>
</table>

The percentage of the grade that comes from homework, and projects confuses some students. These elements are more lightly weighted to allow students to make mistakes and learn from them with small penalties. Completing these exercises is how most students meet the learning objectives that make it possible to do well on the midterms and final that are weighted more heavily. Failure to do the homeworks, and projects usually results in failure of the course. The grading scale will be no higher than the following. It may be lower at the discretion of the instructor.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90+</td>
</tr>
<tr>
<td>B</td>
<td>80-89</td>
</tr>
<tr>
<td>C</td>
<td>70-79</td>
</tr>
<tr>
<td>D</td>
<td>60-69</td>
</tr>
<tr>
<td>F</td>
<td>Otherwise</td>
</tr>
</tbody>
</table>
**Borderline Grade Decisions:** Grades are rounded to the nearest whole number. Although it would be preferable that all grades are cleanly decided, it is usually the case that a few final course grades are decided by only a few points. I have an algorithm for determining grades in these difficult cases. A grade is a borderline grade if it is within two points of the next higher grade. Therefore, grades like 69 and 78 are borderline grades, but grades like 81 and 92 are not. The grade on the final examination will be used to determine borderline grades. If the grade on the final is below the threshold for the higher grade, the lower grade will be given. If the grade on the final is above the threshold for the higher grade, the higher grade will be given.