1.0 General Information

Class Time: 9:30-11:30 Wednesday

Class Location: A 236 Sarkey’s Energy Center

Prerequisites: ENGR 1410 Engineering Orientation I

Instructor: Dr. Deborah A. Trytten

Office: 108 Engineering Laboratory

Office Phone: 325-4299 (voice mail available, but email is much better)

Class home page: http://learn.ou.edu

Personal URL: http://www.cs.ou.edu/~trytten

Email: dtrytten@ou.edu

My office hours sometimes have to be changed during the semester. The current office hours are located on the course web site and are always posted on my door.

Monday: 1-2
Tuesday: 9-10
Thursday: 12-1
Friday: 4-5

Appointments for additional office hours are scheduled through email.

DLC Mentors: We have four DLC mentors who will support this class.

<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
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<tbody>
<tr>
<td>Michael Beier</td>
<td><a href="mailto:mb@ou.edu">mb@ou.edu</a></td>
</tr>
<tr>
<td>Don Tobin</td>
<td><a href="mailto:dtobin@ou.edu">dtobin@ou.edu</a></td>
</tr>
<tr>
<td>Kelly Tran</td>
<td><a href="mailto:tikoanh@ou.edu">tikoanh@ou.edu</a></td>
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Each mentor will support out of class activities. Participation in these activities can be used to substitute for attendance in as many as three classes.

Required Materials: Working laptop computer with wireless network access. We will use computers during class time. You are expected to bring your laptop to class every single day.
Java JDK 1.6.0 (version depends upon operating system), and the associated documentation from java.sun.com.

Greenfoot toolkit and the associated documentation.

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 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. This software is automatically included with some operating systems, so check to see if you have it before installing new software.

2.0 Learning Objectives

Prior programming experience will determine which learning objectives are expected to apply to each student.

All Students:
1. Implement an interactive two dimensional computer game using the Greenfoot toolkit and Java.
2. Document computer programs using simplified UML diagrams and javadoc comments.
3. Use the Java and Greenfoot API in Java programs.
4. Build new classes using inheritance.
5. Meet representatives from CS technical societies like the Association for Computing Machinery, the Game Developers Association, and the Robotics Club.
6. Meet with team members of a cutting edge research project in three dimensional educational game development from the Star Schools Project.
7. Understand and practice legal and ethical use of intellectual property.

Students Without Prior Programming Experience:
1. Build objects using constructors.
2. Distinguish constants and variables.
3. Call methods with and without parameters.
4. Pass object and primitive data parameters to methods.
5. Implement programs using simple control structures, e.g. conditional statements and loops.

Students With Limited Object-Oriented Programming Experience:
1. Build objects using constructors.
2. Distinguish object and class data and methods.
3. Create well organized classes using procedural abstraction.

Students with Object-Oriented Programming Experience:
1. Design a two dimensional computer game using the Greenfoot toolkit.
2. Perform incremental design and implementation of a computer program.
3. Distinguish object and class data and methods.
4. Create well organized classes using procedural abstraction.

3.0 Course Policies

Class Home Page: This class will use Desire2Learn software for our home page. The URL for the home page is 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. When I update the site, I will post news telling you what has been added and where it is located. 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. You are responsible for reading emails within 24 hours.

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. 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 class session. If your computer requires repair during the semester, it is your responsibility to make arrangements to have another computer available, and to install the necessary software before class. A student without a fully usable laptop computer will not be able to complete the learning objectives of this class.

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 is passing the class at the time of the absence.
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.

Academic Misconduct: It may be academic misconduct, specifically plagiarism, to use images or computer programs that are not in the public domain in your project in this class. Just because something can be downloaded from a web site does not mean that you are free to do so with crediting the author, asking permission to use it, and possibly even compensating the author. Please exercise extreme caution in what you download and use. If I believe you have committed plagiarism, I will file academic misconduct charges.

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>
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<tbody>
<tr>
<td>Monday</td>
<td>January 21</td>
<td>Martin Luther King Holiday</td>
</tr>
<tr>
<td>M-F</td>
<td>March 15-23</td>
<td>Spring Vacation</td>
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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.

<table>
<thead>
<tr>
<th>Event</th>
<th>Last Date</th>
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<tr>
<td>Last day to Add</td>
<td>January 18</td>
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<tr>
<td>Last day to Drop with refund</td>
<td>January 28</td>
</tr>
<tr>
<td>Last day to drop with automatic W</td>
<td>February 22</td>
</tr>
<tr>
<td>Last day to change to audit</td>
<td>March 28</td>
</tr>
<tr>
<td>Drop with grade of W/U without permission of the Dean</td>
<td>March 31</td>
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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 distract 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, 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.

**Language:** We will be using the Java programming language (Java 1.6.0, build 3, depending on operating system).

**Backup Copies of Projects:** It is the students responsibility to backup their files appropriately. There are many ways to do this. You could get a jump drive. You also can use the locker in learn.ou.edu, or the drop box as a backup. Make backing up your work a routine part of computer usage. Always back up your files at the end of a class session.

### 4.0 Evaluation

**Desire2Learn Grade Summary:** Desire2Learn has a grade book that is used to store attendance data. It is the responsibility of each student in this class to check their grades on Desire2Learn periodically. If an error is found, bring it to my attention immediately, and I 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 meaningless.

**Grading:** Students who miss two classes or less will receive a grade of S (satisfactory). All others will receive a grade of U (unsatisfactory) and have to repeat the class. Students who arrive late or leave early, or who are not engaged in appropriate class activities will not receive credit for attendance.