PREREQUISITES

ISDS-309 (or equivalent programming course)

SYLLABUS


INSTRUCTOR INFORMATION

Instructor: Dr. Michael Newby
Office: SMGH-4179
Office Hours: TR 2:15pm – 3:45pm
WR 6:15pm – 7:00pm
F 11:30am – 12:00nn
Telephone: (657) 278-3871
At other times by appointment

Email Address: mnewby@fullerton.edu

During the work week, I generally reply to student voice mails within one day

During the work week, I usually check my email every hour and will try to reply to student emails within one day

COURSE GOALS

The goals of this course are:

- To allow students to develop programming skills using Java
- To introduce students to the concepts of object-oriented programming
At the end of this course, students should be able to:

- Develop a simple information system in Java
- Use Java for simple Web-based applications
- Use pre-defined Java classes in their programs
- Write Java classes

ASSISTANCE

If you are having difficulty with this course, it is vital that you seek my help. This is particularly important during the first few weeks of the class. This is a demanding course, and once you get behind with the material, it is very hard for you to catch up. If it happens to you, make an appointment to see me immediately.

TEXTBOOKS


SOFTWARE

- A Java IDE
  - In the laboratories, we will be using JBuilder 8, available as a trial version (for 30 days only) at http://www.codegear.com/downloads/free/jbuilder
  - Eclipse 3.4.1 comes with the textbook
- A compression tool such as WinZip, WinRAR, or the one from Microsoft

You are expected to be familiar with Microsoft Windows for performing tasks such as copying, moving, and deleting files and folders (directories). You are also expected to recognize file types.

STUDENT LABORATORY

The following laboratory is available to all students enrolled in this class:

SGMH-1105

The computers in this laboratory have all the software required for this course. You may also use the computers in the library.

I suggest you get a flash drive with at least 2GB of memory to save your work.

COURSE MATERIALS

Course materials will be available on Blackboard via the Student Portal.
# CLASS AND READING TOPICS

This is a guideline only. Actual weekly topics may vary.

<table>
<thead>
<tr>
<th>Week</th>
<th>Beginning</th>
<th>Topic</th>
<th>Reading</th>
<th>Important Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/25/10</td>
<td>An overview of Java: types, operators, expressions, assignment, I/O</td>
<td>Chapter 2</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2/1/10</td>
<td>Control Statements</td>
<td>Chapter 3</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>2/8/10</td>
<td>Control Statements Methods: parameters</td>
<td>Chapter 4</td>
<td>Furlough Day (no class 2/12/10)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Chapter 5</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>2/15/10</td>
<td>Applets</td>
<td>Chapter 23</td>
<td>Presidents’ Day &amp; Furlough Day (No classes 2/15/10 and 2/16/10)</td>
</tr>
<tr>
<td>5</td>
<td>2/22/10</td>
<td>Arrays and Files</td>
<td>Chapter 6</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>3/1/10</td>
<td>Classes and Objects</td>
<td>Chapter 7</td>
<td>Assignment #1 due</td>
</tr>
<tr>
<td>7</td>
<td>3/8/10</td>
<td>Review</td>
<td></td>
<td>Furlough Day (no class 3/10/10)</td>
</tr>
<tr>
<td>8</td>
<td>3/15/10</td>
<td>Mid-term Exam</td>
<td></td>
<td></td>
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<tr>
<td>9</td>
<td>3/22/10</td>
<td></td>
<td></td>
<td>Furlough Day (no class 3/25/10)</td>
</tr>
<tr>
<td>10</td>
<td>3/29/10</td>
<td>SPRING BREAK – NO CLASSES</td>
<td></td>
<td></td>
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<tr>
<td>11</td>
<td>4/5/10</td>
<td>More on classes</td>
<td>Chapter 8</td>
<td>Assignment #2 due</td>
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<tr>
<td></td>
<td></td>
<td>Lab Test #3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>4/12/10</td>
<td>Inheritance and polymorphism</td>
<td>Chapter 9 and 10</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>4/19/10</td>
<td></td>
<td></td>
<td>Furlough Day (no class 4/22/10)</td>
</tr>
<tr>
<td>14</td>
<td>4/26/10</td>
<td>Dynamic polymorphism: downcasting GUI</td>
<td>Chapter 10</td>
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<td></td>
<td></td>
<td></td>
<td>Chapter 14</td>
<td></td>
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<tr>
<td>15</td>
<td>5/3/10</td>
<td>Exceptions</td>
<td>Chapter 11</td>
<td></td>
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<td></td>
<td></td>
<td>Lab Test #4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>5/10/10</td>
<td>Review</td>
<td></td>
<td>Assignment #3 due</td>
</tr>
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</table>
**GRADES**

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points</th>
<th>Percent</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Mid-term examination</td>
<td>100</td>
<td>20%</td>
<td>To be held on 3/18/2010</td>
</tr>
<tr>
<td>Laboratory Tests</td>
<td>100</td>
<td>20%</td>
<td>Laboratory Test #1 on 2/18/2010</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Laboratory Test #2 on 3/11/2010</td>
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<td></td>
<td></td>
<td></td>
<td>Laboratory Test #3 on 4/8/2010</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Laboratory Test #4 on 5/6/2010</td>
</tr>
<tr>
<td>Programs</td>
<td>150</td>
<td>30%</td>
<td>Program #1 due 3/7/2010</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Program #2 due 4/11/2010</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Program #3 due 5/14/2010</td>
</tr>
<tr>
<td>Final examination</td>
<td>150</td>
<td>30%</td>
<td>To be held in Finals Week</td>
</tr>
<tr>
<td>Total</td>
<td>500</td>
<td>100%</td>
<td></td>
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</tbody>
</table>

**COURSE GRADES**

The total points required to achieve a given course grade are as follows:

- **A+:** \( \geq 485 \)
- **A:** 466 - 484
- **A-:** 450 - 465
- **B+:** 435 - 449
- **B:** 416 - 434
- **B-:** 400 - 415
- **C+:** 385 - 399
- **C:** 350 - 384
- **C-:** 345 - 349
- **D:** 300 - 344
- **F:** < 300

**LABORATORY TESTS**

There will be four laboratory tests during the semester. Each is worth 25 points (5%) and will involve writing Java programs. These tests will be open book and open notes.

**EXAMINATIONS**

Both examinations are open book and open notes. The final examination is comprehensive.

**FINAL EXAMINATION**

The final examination will be held at the following time:

    Thursday, May 20th 2010 from 7:30 – 9:20pm
MAKE-UP EXAMINATIONS

Make-up examinations will only be available to students in extreme circumstances.

LABORATORY EXERCISES

Throughout the semester, you will be given a set of laboratory exercises which will involve writing programs using Java and the JBuilder environment. The purpose of these exercises is to demonstrate techniques and concepts discussed in the lectures. They do not have a grade associated with them but they will help you to complete the assignments.

PROGRAMMING ASSIGNMENTS

- You will be required to use the computer to develop or modify programs.
- Under normal circumstances, I will give you 2-3 weeks to complete each program. Writing a program, particularly using an unfamiliar environment, is time consuming, so it is important that you start early and not leave it until the last minute.
- Late submission of a program will lead to a reduction in grade for that program (see section Submitting Programs for more information)
- Programs will not be accepted later than one week after the due date
- The maximum grade you can achieve for these programs is one grade more than the average of your examinations. For example, if you gain a C in your examinations, the maximum you can gain for the programs is B. If you hand in a copied program, you will get an F for the course.

GROUPS FOR PROGRAMS

The programming assignments will be group, consisting of 3 or 4 students. I will allow you to organize your own groups, but this must be done by 2/19/2010, when the first programming assignment is posted. Please send me one email with the names of your group members.

SUBMITTING PROGRAMS

- Programs must be submitted via the Digital Drop Box on Blackboard
- Programs will not be accepted by email
- Each source file that you submit must have a comment containing your name
- You must submit the files that I request in the form that I specify
- Programs will be accepted up to one week after the due date
- Late programs will receive less credit than those submitted on time
- Do not send me messages via the Drop Box – I do not read those messages
- Do not send me an email asking me if I have received your program – if it is in your Drop Box without a Remove button, then I have received it
PENALTIES FOR INCORRECT SUBMISSION OF PROGRAMS

- Source file not containing student name(s)                  5%
- Submitting files more than twice without permission         5%
- Submitting program late                                     2% per day
- Submitting incorrect files or incomplete project            10%
- If required to resubmit                                     10%

ASSISTANCE WITH PROGRAMS

- If you have specific problems with your program, I am prepared to assist you either during my office hours or via email.
- The assistance I give will not affect the grade I award for the program
- I will only answer specific questions, not ones such as “Will I get an A for this program?”
- I will look at a completed program only once when I grade it, so do not ask me: “Will you look at this to make sure it is what you wanted?”
- There will be a blackout period 48 hours prior to the submission time – during this time I will not respond to students’ questions in regards to the program.

GRADES FOR PROGRAMS

Programs will be assessed on three criteria:

- Correctness – it does what it is supposed to do
- Layout – program is easy to read and contains useful comments
- Structure – program uses correct constructs, and exhibits good modularity

The three criteria will not carry equal weight. Having a ‘working’ program does not guarantee an A, and having non-working program does not mean you will get an F.
### GUIDELINES FOR ASSESSING PROGRAMS

<table>
<thead>
<tr>
<th>Grade</th>
<th>Range</th>
<th>Description</th>
</tr>
</thead>
</table>
| **A** | 90%+   | The programs will:  
- satisfy the specification and produce correct answers  
- be well structured  
- use meaningful names  
- be easy to understand  
- have comments where necessary  
- have no unnecessary statements |
| **B** | 80%-89% | The programs will:  
- use meaningful names  
- be easy to understand  
- have comments where necessary  
- compile without error  
but may:  
- not quite satisfy the specifications  
- not produce correct answers  
- have unnecessary statements  
- have an inconsistent structure |
| **C** | 70%-79% | The programs may:  
- produce correct answers and satisfy the specification  
but they may:  
- be difficult to understand  
- have poor or inconsistent structure  
- not use meaningful names  
- have unnecessary comments or no comments |
| **D** | 60%-69% | The programs will:  
- have compilation errors  
- have poor structure  
- be difficult to understand |
| **F** | < 60%  | The programs will:  
- not exist  
- be solutions to other problems  
- use incorrect techniques |
ACADEMIC DISHONESTY

Copying someone else’s work and presenting it as your own is Academic Dishonesty. Any student found to have committed academic dishonesty will be given an F grade for the course.

ATTENDANCE POLICY

You are expected to attend all classes, to arrive on time, and leave when the class is over and not before. If you are unable to attend class, or will arrive late, or leave early, you must have an acceptable reason and you should let me know beforehand.

FURLOUGHS

As a consequence of funding cuts within the State Budget, the faculty have agreed to take 2 days per month of unpaid leave (in effect, a 10% pay cut). The alternative to this would be a) a greater increase in student fees and b) a reduction in the number of classes offered (since faculty would have to be laid off). If you have any complaints regarding this, contact Governor Schwarzenegger, your State Senator, and your Member of the State Legislative Assembly.

My Scheduled Furlough Days:

January 22nd and 25th
February 12th and 16th
March 10th and 25th
April 5th and 22nd
May 3rd

SWINE FLU

Respiratory diseases spread quickly in schools and universities. If you are unwell, let me know by email, but please stay at home. All notes, readings, assignments, etc. are posted on Blackboard, and assignments are to be submitted via Blackboard.

STUDENTS WITH DISABILITIES

The University is committed to supporting all students and providing reasonable accommodations when it is possible and appropriate to do so. Students with temporary or permanent disabilities may receive assistance and support services through the Disabled Student Service Office, UH 101, 657-278-3117, www.fullerton.edu/disabledservices. This office reviews documentation and determines the necessary specific accommodations for students with disabilities. Students with a disability are entitled to reasonable accommodation after they have identified themselves as a student with a disability. Those students must request specific accommodations and provide documentation in support of their request. The student will be given a form which then must be given to me. This form will advise me of the reasonable accommodation that is to be provided.
EMERGENCY PROCEDURES

The safety of all students attending California State University Fullerton is of paramount importance. During an emergency it is necessary for students to have a basic understanding of their personnel responsibilities and the University’s emergency response procedures. In the event of an emergency please adhere to the following guidelines

Before an emergency occurs-

1. Know the safe evacuation routes for your specific building and floor.
2. Know the evacuation assembly areas for your building.

When an emergency occurs-

1. Keep calm and do not run or panic. Your best chance of emerging from an emergency is with a clear head.
2. Evacuation is not always the safest course of action. If directed to evacuate, take all of your belongings and proceed safely to the nearest evacuation route.
3. Do not leave the area, remember that faculty and other staff members need to be able to account for your whereabouts.
4. Do not re-enter building until informed it is safe by a building marshal or other campus authority.
5. If directed to evacuate the campus please follow the evacuation routes established by either parking or police officers.

After an emergency occurs-

1. If an emergency disrupts normal campus operations or causes the University to close for a prolonged period of time (more than three days), students are expected to complete the course assignments listed on the syllabus as soon as it is reasonably possible to do so.
2. Students can determine the University's operational status by checking the University's web site at http://www.fullerton.edu, calling the University's hotline number at 657-278-0911, or tuning into area radio and television stations. Students should assume that classes will be held unless they hear or read an official closure announcement.

EMERGENCY CALLS
DIAL 9-1-1
All campus phones and cell phones on campus reach the University Police Department

Non-emergency line: (657) 278-2515
24-hour recorded emergency information line: (657) 278-0911 or (657) 278-4444
ACCESSING THE WEB SITE

The Blackboard website will be used for the following purposes:

- To make course notes available to you
- To make sample programs available to you
- To post copies of laboratory exercises and assignments
- To post practice tests and solutions
- To post grades of programs, tests, exams and the course. Grades will **not** be posted outside my office
- To announce modifications to the course, such as change in due dates, corrections to project specifications, changes to classes
- To submit programming assignments

**You will be automatically enrolled in the website if you are enrolled in the course.**

STUDENT RESPONSIBILITIES

You are responsible for:
- Reading all materials before each class meeting.
- Completing all lab exercises and assignments.
- Taking a test in the laboratory class in which it has been scheduled.
- Completing all programming assignments and turning them in on time.
- Ensuring the program is submitted correctly.
- Ensuring that your name is in every source file of a programming assignment.
- Protecting your own work from plagiarism: if you are using the computers in the computer lab, make sure you delete your files from your working directory and the Recycle Bin before you leave the workstation.
- Seeking my help when you have difficulty with the assignments or the course: Do not wait until the end of the course to ask for my help.
- Keeping your email address current: if I send you a message and it is rejected, there is no way I can contact you.
- Reading my announcements on the webpage. These announcements contain important information. You are responsible for making sure you get that information – I will not accept the excuse “Sorry, I didn’t see your announcement”
- Speaking clearly when leaving me a voice mail, especially when leaving a call-back number
- Reading and understanding this outline.

**THIS SYLLABUS IS SUBJECT TO CHANGE AT THE INSTRUCTOR’S DISCRETION**