BUSINESS APPLICATION DEVELOPMENT
BUSI 2402 – Fall 2013

Class Times

<table>
<thead>
<tr>
<th>Section</th>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Mondays</td>
<td>11:35 – 14:25</td>
</tr>
</tbody>
</table>

Lab Times/Tutorials [Tutorials will run from 2013.09.16 to 2013.12.09]

<table>
<thead>
<tr>
<th>Section</th>
<th>Day</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Mondays</td>
<td>14:35 – 15:25</td>
<td>SA509</td>
</tr>
<tr>
<td>A2</td>
<td>Mondays</td>
<td>10:35 – 11:25</td>
<td>SA509</td>
</tr>
<tr>
<td>A3</td>
<td>Tuesdays</td>
<td>10:35 – 11:25</td>
<td>SA509</td>
</tr>
</tbody>
</table>

INSTRUCTOR

Dr. Alejandro Ramirez
Office: DT1722
Phone: 613 520 2600 ext. 2397
Office Hours: Tuesdays 10:00 AM – 12:00 PM or by appointment
Email: Alex_Ramirez@Carleton.ca

TA
TBA

PREREQUISITES
Second-year standing

COURSE DESCRIPTION
BUSI 2402 [0.5 credit]
Business Applications Development
Introduction to programming – Fundamentals of structured and object-oriented programming using an OO programming language – Treatment of objects, abstraction and inheritance, event-driven programming, iteration, sequence and selection – Consideration of algorithms for searching, sorting, string processing and numerical analysis. Emphasis on the development of business applications
Lectures three hours a week and tutorial one hour a week

COURSE OVERVIEW
The best way to excel in this course is to practice what you learn. Spend time coding up the examples presented in class, talk to your classmates, and experiment. Try coding the same thing in different ways and analyse the run-time results. Do your assignments on your own. Aim to get programs written at least 4 days before the due date. This gives you time to test your code, review it, and properly comment it and present it.
Keep up with your reading. Your book contains many good examples which you can study for ideas. Due to the heavy workload of this course, many topics may only get cursory mention during the lectures. You will pick up the required details by reading your book. There are many books on JAVA programming. Seek out other books in our library. No single book contains enough examples or information to satisfy everyone.

We will ask you to THINK. As an IS/IT professional, not a programmer, your job is to come up with solutions to problems you have never seen before. The solution is not in a textbook. As a beginner programmer, you will attempt to construct a viable solution using the tools you learn in your courses. You will be expected to think, and use your creativity to solve problems. This is the fun part of this work, dreaming up ideas to solve problems.

Ask many questions. Ask your instructor, TA, and classmates. You will learn a great deal by talking about various issues related to programming with your classmates. Make this a part of your learning style. Unless you are prepared to spend a significant amount of time working, trying out the examples, experimenting with them, and doing some of the things above, you will find it difficult to both complete the assignments, and pass the quizzes and final exam.

TEXTBOOK

- Java for Everyone: Late Objects, 2nd/E
  Author: Cay Horstmann
  Publisher: Wiley
  www.wiley.com/college/horstmann

EVALUATION Students will be evaluated in this course according to the following:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 Assignments</td>
<td>35%</td>
</tr>
<tr>
<td>5 Quizzes</td>
<td>25%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>40%</td>
</tr>
<tr>
<td>Hands-on component</td>
<td>15.0</td>
</tr>
<tr>
<td>Written component</td>
<td>25.0</td>
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</table>

**Assignments**

Five Individual Assignments are due on Carleton’s Learning Management System [LMS] at the date and time indicated on the course’s website. Marks and marked assignments will be available there as well.

**Late Assignments**

There will be a 24 hours period to submit late assignments. If an assignment is marked late it will be penalized 25%. No assignments will be accepted after that. Missed assignments will be tabulated as 0.

**Solutions**

After the 24 hours window for late assignments, a solution to the assignment will be available in the course’s site on Carleton’s LMS. This is important because some assignments will build on previous ones. Obviously we cannot accept any assignment after the solution is posted.

**Quizzes**

These quizzes account for 25% of the final grade. The quizzes will be closed book and will cover material taught in class up to and including the lecture before the quiz date.
**Final Exam**

The final exam will be divided in two components: a computer-based exam and a traditional, paper-based exam.

- The Hands on Test, a computer-based exam, will take place during lab times on 2013.12.03 & 2013.12.09
- The paper-based exam will take place during the formal examination period. It will cover the *entire course* and will be *closed book*.

### Detailed Course Schedule*

<table>
<thead>
<tr>
<th>Lecture/Date</th>
<th>Topic</th>
<th>Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture 1</td>
<td>Welcome to the course – course administration – Introduction to</td>
<td></td>
</tr>
<tr>
<td>13.09.09</td>
<td>Computers, Programs, Programming, IDEs and Java. Problem-Solving</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Chapter 1)</td>
<td></td>
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<tr>
<td>Lecture 2</td>
<td>Basic Computation [variables and constants], The OO Paradigm. UML.</td>
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<tr>
<td>13.09.16</td>
<td>Java’s Fundamental Data Types (Chapter 2: Sections 2.1 – 2.3)</td>
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</tr>
<tr>
<td>Lecture 3</td>
<td>Finishing Chapter 2 (Sections 2.4 – 2.5). Working with dates. Objects</td>
<td>In Class Quiz 01</td>
</tr>
<tr>
<td>13.09.23</td>
<td>and Classes in JAVA (Chapter 8)</td>
<td></td>
</tr>
<tr>
<td>Lecture 4</td>
<td>Flow Control: Decisions (Chapter 3)</td>
<td>Assignment 1</td>
</tr>
<tr>
<td>13.09.30</td>
<td></td>
<td></td>
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<tr>
<td>Lecture 5</td>
<td>Flow Control: Loops (Chapter 4) – Text Input/Output: Reading &amp; Writing</td>
<td>In Class Quiz 02</td>
</tr>
<tr>
<td>13.10.07</td>
<td>Text Files (Chapter 7: Sections 7.1 to 7.3)</td>
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<tr>
<td>Lecture 6</td>
<td>Methods (Chapter 5)</td>
<td>Assignment 2</td>
</tr>
<tr>
<td>13.10.21</td>
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<tr>
<td>Lecture 7</td>
<td>Arrays and Array Lists (Chapter 6)</td>
<td>In Class Quiz 03</td>
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<tr>
<td>13.11.04</td>
<td></td>
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<tr>
<td>Lecture 8</td>
<td>Inheritance, Polymorphism, and Interfaces (Chapter 9)</td>
<td>Assignment 3</td>
</tr>
<tr>
<td>13.11.11</td>
<td></td>
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<tr>
<td>Lecture 9</td>
<td>Object-Oriented Design (Chapter 12). Exception Handling (Chapter 7:</td>
<td>In Class Quiz 04</td>
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<tr>
<td>13.11.18</td>
<td>Sections 7.4 &amp; 7.5)</td>
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<tr>
<td>Lecture 10</td>
<td>Graphical User Interfaces (Chapter 10). Advances User Interfaces</td>
<td>Assignment 4</td>
</tr>
<tr>
<td>13.11.25</td>
<td>(Chapter 11)</td>
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<tr>
<td>Lecture 11</td>
<td>Recursion (Chapter 13). Sorting and Searching (Chapter 14)</td>
<td>In Class Quiz 05</td>
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<tr>
<td>13.12.02</td>
<td></td>
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<tr>
<td>Lecture 12</td>
<td>The Java Collections Framework (Chapter 15). Final Exam Review.</td>
<td>Assignment 5</td>
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<tr>
<td>13.12.09</td>
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* Note: While every attempt will be made to keep to the schedule listed above, unforeseen circumstances may necessitate modifications throughout the semester.

**NO LECTURES OR LABS WILL BE HELD ON 13.10.14 – THANKSGIVING – AND ON 13.10.28-29 – FALL READING WEEK**

### Required calculator in BUSI course examinations

If you are purchasing a calculator, we recommend any one of the following options: Texas Instruments BA II Plus (including Pro Model), Hewlett Packard HP 12C (including Platinum model), Staples Financial Calculator, Sharp EL-738C & Hewlett Packard HP 10bII

### Group work

The Sprott School of Business encourages group assignments in the school for several reasons. They provide you with opportunities to develop and enhance interpersonal, communication, leadership, follower-ship and other group skills. Group assignments are also good for learning
integrative skills for putting together a complex task. Your professor may assign one or more group tasks/assignments/projects in this course. Before embarking on a specific problem as a group, it is your responsibility to ensure that the problem is meant to be a group assignment and not an individual one.

**Medical certificate**

Please note that in all occasions that call for a medical certificate you must use or furnish the information demanded in the standard university form. [http://www2.carleton.ca/registrar/forms/](http://www2.carleton.ca/registrar/forms/)

In accordance with the Carleton University Undergraduate Calendar (p 34), the letter grades assigned in this course will have the following percentage equivalents:

- **A+ = 90-100**
- **B+ = 77-79**
- **C+ = 67-69**
- **D+ = 57-59**

- **A = 85-89**
- **B = 73-76**
- **C = 63-66**
- **D = 53-56**

- **A- = 80-84**
- **B- = 70-72**
- **C- = 60-62**
- **D- = 50-52**

- **F = Below 50**
- **WDN = Withdrawn from the course**
- **ABS = Student absent from final exam**
- **DEF = Deferred (See above)**
- **FND = (Failed, no Deferred) = Student could not pass the course even with 100% on final exam**

**Academic Regulations, Accommodations, Plagiarism, Etc.**

University rules regarding registration, withdrawal, appealing marks, and most anything else you might need to know can be found on the university’s website, here:

[http://www.carleton.ca/calendars/ugrad/current/regulations/acadregsuniv.html](http://www.carleton.ca/calendars/ugrad/current/regulations/acadregsuniv.html)

**Requests for Academic Accommodations**

**Academic Accommodations for Students with Disabilities:**

The Paul Menton Centre for Students with Disabilities (PMC) provides services to students with Learning Disabilities (LD), psychiatric/mental health disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism Spectrum Disorders (ASD), chronic medical conditions, and impairments in mobility, hearing, and vision. If you have a disability requiring academic accommodations in this course, please contact PMC at 613-520-6608 or pmc@carleton.ca for a formal evaluation. If you are already registered with the PMC, contact your PMC coordinator to send me your *Letter of Accommodation* at the beginning of the term, and no later than two weeks before the first in-class scheduled test or exam requiring accommodation (*if applicable*). After requesting accommodation from PMC, meet with me to ensure accommodation arrangements are made. Please consult the PMC website for the deadline to request accommodations for the formally-scheduled exam (*if applicable*).

The deadlines for contacting the Paul Menton Centre regarding accommodation for final exams for the December 2013 exam period is November 8, 2013 and for the April 2014 exam period is March 7, 2014.
For Religious Obligations:

Students requesting academic accommodation on the basis of religious obligation should make a formal, written request to their instructors for alternate dates and/or means of satisfying academic requirements. Such requests should be made during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist, but no later than two weeks before the compulsory event.

Accommodation is to be worked out directly and on an individual basis between the student and the instructor(s) involved. Instructors will make accommodations in a way that avoids academic disadvantage to the student.

Students or instructors who have questions or want to confirm accommodation eligibility of a religious event or practice may refer to the Equity Services website for a list of holy days and Carleton's Academic Accommodation policies, or may contact an Equity Services Advisor in the Equity Services Department for assistance.

For Pregnancy:

Pregnant students requiring academic accommodations are encouraged to contact an Equity Advisor in Equity Services to complete a letter of accommodation. The student must then make an appointment to discuss her needs with the instructor at least two weeks prior to the first academic event in which it is anticipated the accommodation will be required.

Plagiarism:

Plagiarism is the passing off of someone else's work as your own and is a serious academic offence. For the details of what constitutes plagiarism, the potential penalties and the procedures refer to the section on Instructional Offences in the Undergraduate Calendar.

What are the Penalties for Plagiarism?

A student found to have plagiarized an assignment may be subject to one of several penalties including: expulsion; suspension from all studies at Carleton; suspension from full-time studies; and/or a reprimand; a refusal of permission to continue or to register in a specific degree program; academic probation; award of an FNS, Fail, or an ABS.

What are the Procedures?

All allegations of plagiarism are reported to the faculty of Dean of FASS and Management. Documentation is prepared by instructors and/or departmental chairs.

The Dean writes to the student and the University Ombudsperson about the alleged plagiarism.

The Dean reviews the allegation. If it is not resolved at this level then it is referred to a tribunal appointed by the Senate.

Plagiarism and cheating at the graduate level are viewed as being particularly serious and the sanctions imposed are accordingly severe. Students are expected to familiarize themselves with and follow the Carleton University Student Academic Integrity Policy.
The Policy is strictly enforced and is binding on all students. Plagiarism and cheating – presenting another’s ideas, arguments, words or images as your own, using unauthorized material, misrepresentation, fabricating or misrepresenting research data, unauthorized co-operation or collaboration or completing work for another student – weaken the quality of the graduate degree. Academic dishonesty in any form will not be tolerated. Students who infringe the Policy may be subject to one of several penalties including: expulsion; suspension from all studies at Carleton; suspension from full-time studies; a refusal of permission to continue or to register in a specific degree program; academic probation; or a grade of Failure in the course.

**Assistance for Students:**

Student Academic Success Centre (SASC): [www.carleton.ca/sasc](http://www.carleton.ca/sasc)

Writing Tutorial Services: [www.carleton.ca/wts](http://www.carleton.ca/wts)

Peer Assisted Study Sessions (PASS): [www.carleton.ca/sasc/peer-assisted-study-sessions](http://www.carleton.ca/sasc/peer-assisted-study-sessions)

**Important Information:**

Students must always retain a hard copy of all work that is submitted.

All final grades are subject to the Dean’s approval.

Please note that you will be able to link your CONNECT (MyCarleton) account to other non-CONNECT accounts and receive emails from us. However, for us to respond to your emails, we need to see your full name, CU ID, and the email must be written from your valid CONNECT address. Therefore, it would be easier to respond to your inquiries if you would send all email from your connect account. If you do not have or have yet to activate this account, you may wish to do so by visiting [https://portal.carleton.ca/](https://portal.carleton.ca/)