BUSINESS APPLICATION DEVELOPMENT
BUSI 2402 – Fall 2015

Class Times

<table>
<thead>
<tr>
<th>Section</th>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Monday</td>
<td>8:35 – 11:25</td>
</tr>
</tbody>
</table>

Lab Times/Tutorials [From 2015.09.15 to 2015.12.01]

<table>
<thead>
<tr>
<th>Section</th>
<th>Day</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Tuesday</td>
<td>15:35 – 16:25</td>
<td>SA509</td>
</tr>
<tr>
<td>A2</td>
<td>Tuesday</td>
<td>14:35 – 15:25</td>
<td>SA509</td>
</tr>
<tr>
<td>A3</td>
<td>Tuesday</td>
<td>10:35 – 11:25</td>
<td>SA509</td>
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INSTRUCTOR

Dr. Alejandro Ramirez
Office: DT1722
Phone: 613 520 2600 ext. 2397
Office Hours: Tuesdays 10:00 – 12:00 Hrs. 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 perform well 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 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 midterm and final exams.

**TEXTBOOK**
- Java Concepts: Early Objects, 7th/E
  - Author: Cay Horstmann
  - Publisher: Wiley

**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>A01 [2015/09/27]</td>
<td></td>
</tr>
<tr>
<td>A02 [2015/10/18]</td>
<td></td>
</tr>
<tr>
<td>A03 [2015/11/08]</td>
<td></td>
</tr>
<tr>
<td>A04 [2015/11/22]</td>
<td></td>
</tr>
<tr>
<td>A05 [2015/12/06]</td>
<td></td>
</tr>
<tr>
<td>In Class Midterm</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 CU Learn 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 may build on previous ones. Obviously we cannot accept any assignment after the solution is posted.

**In Class Midterm**
There will be a 2-hour midterm exam (in class) and it will cover material taught in class up to and including the lecture before the exam.
**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 **2015.12.01**
- The paper-based exam will take place during the formal examination period. It will cover the *entire course* and will be *closed book*.

In order to pass this course you need to write the Hands-On Test.

**Detailed Course Schedule***

<table>
<thead>
<tr>
<th>Lecture/Date</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture 1</td>
<td>Welcome to the course – course administration – Introduction to Computers, Programs, Programming, IDEs and Java. Problem-Solving (Chapter 1, Appendices C, E, &amp; I – Companion Site)</td>
</tr>
<tr>
<td>15.09.04</td>
<td></td>
</tr>
<tr>
<td>Lecture 2</td>
<td>The OO Paradigm. UML. Using Objects (Chapter 2, Appendix H)</td>
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<tr>
<td>15.09.14</td>
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<tr>
<td>Lecture 3</td>
<td>Implementing Classes (Chapter 3, Appendix B)</td>
</tr>
<tr>
<td>15.09.21</td>
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<tr>
<td>Lecture 4</td>
<td>Fundamental Data Types (Chapter 4), Date, the lost class, and Decisions I (Chapter 5)</td>
</tr>
<tr>
<td>15.09.28</td>
<td></td>
</tr>
<tr>
<td>Lecture 5</td>
<td>Decisions II (Chapter 5) Loops (Chapter 6)</td>
</tr>
<tr>
<td>15.10.05</td>
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<tr>
<td>Lecture 6</td>
<td></td>
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<tr>
<td>15.10.19</td>
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<tr>
<td>Lecture 7</td>
<td>Arrays and Array Lists (Chapter 7)</td>
</tr>
<tr>
<td>15.11.02</td>
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<tr>
<td>Lecture 8</td>
<td>Designing Classes (Chapter 8), Inheritance (Chapter 9)</td>
</tr>
<tr>
<td>15.11.09</td>
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<tr>
<td>Lecture 9</td>
<td>INPUT/OUTPUT and Exception Handling (Chapter 11)</td>
</tr>
<tr>
<td>15.11.16</td>
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<tr>
<td>Lecture 10</td>
<td>Object-Oriented Design (Chapter 12).</td>
</tr>
<tr>
<td>15.11.23</td>
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<tr>
<td>Lecture 11</td>
<td>Interfaces (Chapter 10) GUls in Java</td>
</tr>
<tr>
<td>15.11.30</td>
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<tr>
<td>Lecture 12</td>
<td>Advanced GUIs [Bois Saveur] Final Exam Review</td>
</tr>
<tr>
<td>15.12.07</td>
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</tbody>
</table>

**Midterm exam**

**Course Sharing Websites**

Student or professor materials created for this course (including presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the author(s). They are intended for personal use and may not be reproduced or redistributed without prior written consent of the author(s).

**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.

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, 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://calendar.carleton.ca/undergrad/regulations/academicregulationsoftheuniversity/

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 2015 exam period is November 6, 2015.

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.

Academic Integrity
Violations of academic integrity are a serious academic offence. Violations of academic integrity – presenting another’s ideas, arguments, words or images as your own, using unauthorized material, misrepresentation, fabricating or misrepresenting research data, unauthorized cooperation or collaboration or completing work for another student – weaken the quality of the degree and will not be tolerated. Penalties may include 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; and a grade of Failure in the course, amongst others. Students are expected to familiarize themselves with and follow the Carleton University Student Academic Integrity Policy which is available, along with resources for compliance at http://www2.carleton.ca/sasc/advisingcentre/academic-integrity/.

Assistance for Students:
Student Academic Success Centre (SASC): www.carleton.ca/sasc
Writing Tutorial Services: http://www1.carleton.ca/sasc/writing-tutorial-service/
Peer Assisted Study Sessions (PASS): www.carleton.ca/sasc/peer-assisted-study-sessions

Sprott Student Services
The Sprott student services office, located in 710 Dunton Tower, offers academic advising, study skills advising, and overall academic success support. If you’re having a difficult time with this course or others, or just need some guidance on how to successfully complete your Sprott degree, please drop in on any weekday between 8:30am and 4:30pm. Our advisors are happy to discuss grades, course selection, tutoring, concentrations, and will ensure that you get connected with the resources you need to succeed! http://sprott.carleton.ca/students/undergraduate/support-services/

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/

Important Dates and Deadlines – Fall 2015

Graduate, Undergraduate and Special Students

Sessions:

- **Fall term: September 2, 2015 – December 7, 2015**
- **Winter term: January 6, 2016 – April 8, 2016**
- **Fall/winter: September 2, 2015 – April 8, 2016**

May 25
The registration timetable planning tool is available for the 2015-2016 academic year. The Student
Registration Assistance service becomes available to all students.

June 4
Carleton Central opens at 8:30 a.m. for registration for new first year undergraduate students
(see Timeticket schedule for your registration start time).

June 22
Carleton Central opens at 8:30 a.m. for registration for returning students (see Timeticket schedule).

August 7
Carleton Central opens at 8:30 a.m. for registration for Special Students (see Timeticket schedule).

August 25
Payment deadline date for your entire student account. Click here for important payment
information. Late charges may be applied to the student account any time after this date.

August 29-30
Residence move in weekend. Students will be advised in July of their assigned move in date.

August 31
Orientation for Teaching Assistants.

September 1
Last day for receipt of applications from potential fall (November) graduates.
Academic orientation.
All students are expected to be on campus. Class and laboratory preparations, departmental
introductions for students and other academic preparation activities will be held.

September 2
Fall term begins.
Fall and fall/winter classes begin.
September 4
Classes follow a Monday schedule.

September 7
Statutory holiday. University closed.

September 18
Last day of registration for fall term and fall/winter courses.
Last day to change courses or sections (including auditing) for fall/winter and fall term courses.
Graduate students who have not electronically submitted their final thesis copy to the Faculty of Graduate and Postdoctoral Affairs will not be eligible to graduate in Fall 2015 and must register for the Fall 2015 term.

September 25-27
Summer deferred final examinations held.

September 30
Last day to withdraw from fall term and fall/winter courses with a full fee adjustment. Withdrawals after this date will create no financial change to Fall term fees (financial withdrawal).

October 9
December examination schedule (fall term final and fall/winter mid-terms) available online.

October 12
Statutory holiday. University closed.

October 15
Last day for receipt of applications for admission to an undergraduate degree program for the winter term from applicants whose documents originate from outside Canada or the United States.

October 26-30
Fall break. Classes are suspended.

November 6
Last day to submit Formal Examination Accommodation Forms to the Paul Menton Centre for Students with Disabilities for December examinations.

November 15
Last day for receipt of applications for admission to an undergraduate degree program for the winter term.

November 24, 2015
Last day for tests or examinations in courses below the 4000-level before the final examination period (see Examination Regulations in the Academic Regulations of the University section of this Calendar).
November 25
Final Payment Deadline. Click here for important payment information. Late charges may be applied to the student account any time after this date.

December 1
Last day for receipt of applications from potential winter (February) graduates. 
Last day to upload your Master’s or PhD thesis for your thesis defence in order to graduate this winter.

December 7
Fall term ends.

Last day of fall-term classes. 
Last day for academic withdrawal from fall term courses. 
Last day for handing in term work and the last day that can be specified by a course instructor as a due date for term work for fall term courses. 
Last day for receipt of applications for undergraduate degree program transfers for winter term. 
Last day to pay any remaining fall tuition fees to avoid a hold on access to marks through Carleton Central and the release of transcripts and other official documents.

December 8
No classes or examinations take place.

December 9 – 21
Final examinations in fall term courses and mid-term examinations in fall/winter courses may be held. Examinations are normally held all seven days of the week.

December 15, 2015
Fall Co-op Work Term Reports due.

December 22, 2015
All take home examinations are due.

December 25 to January 3
University closed