Course Syllabus

CP213: Introduction to Object-Oriented Programming
Physics & Computer Science, Waterloo Campus
Spring 2019

Professor Information

Dr. Abdul-Rahman Mawlood-Yunis | Science Building, N3022F
519-884-1970 x4091 | amawloodyunis AT wlu.ca
By Appointment

Lab Instructor Information

Mr. David Brown

Course Information

Fundamentals of object-oriented programming, classes, subclasses, inheritance, references, overloading, event-driven and concurrent programming, using modern application programming interface. The language Java will be used.

3 lecture hours, 1 lab hours

Credit: 0.50

Prerequisite: CP164 (or CP114)

Outline: https://bohr.wlu.ca/cp213/syllabus.php (will update)

URL: https://bohr.wlu.ca/cp213/ (will update)

Section Information (Lab time would updated soon)

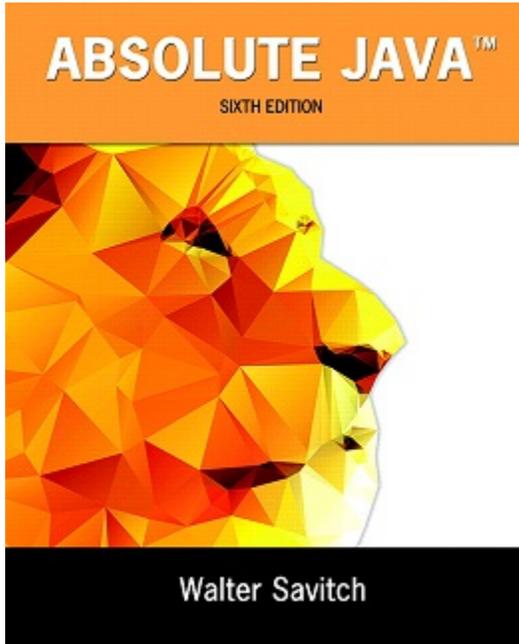| Section	Days	Times	Room	Instructor
Lecture B	TR	10:00 am - 11:20 am	Arts Building 2C16	Abdul-Rahman (AR), Mawlood-Yunis
Lab L1	comming soon	comming soon - comming soon	comming soon	Mr. David Brown
Lab L2	comming soon	comming soon - comming soon	comming soon	Mr. David Brown

Course Overview and Approach

• To learn how to create and use data structures in computer programs.

- To gain an understanding of algorithm design and analysis.

- To get an introduction to software engineering concepts.

Course Tools and Learning Materials

Texts

Absolute Java 6th Ed. by Walter Savitch

This is an electronic textbook, available to you through MyLearningSpace on the first day of classes.

This textbook is free for you to use for the first two weeks of the course (until the Add/Drop Date). You will be sent multiple communications about how the digital program works including information on how to Opt Out of the program by the deadline. If you opt out of the program on or before the opt out deadline, you are not billed for the textbook. If you remain opted in, your Loris Student Account is billed just after the opt out deadline and you are required to pay for the textbook once you are invoiced.

There is an e-reader platform which you download (link is on MyLS) and this allows you to access the textbook anywhere, anytime on up to 4 devices and not be dependent on a wi-fi connection. The e-reader platform has a wide range of functionality (notes, shared notes, group notes, highlighting, search capability, text to speech, to name a few).

A *ZyBook* is an on-line alternative to a traditional textbook. It contains animations, interactive learning questions, and more.

1. Sign in or create an account at learn.zybooks.com
2. Enter zyBook code WLUCP213MawloodYunisSummer2019
3. Subscribe

A subscription is $58 and lasts until May 13, 2019.

Completing the interactive questions in the ZyBook is worth 10% of your course grade.

The PCs in the public labs can be used by you for your assignments. We use the Java programming language and the Eclipse IDE (Integrated Development Environment). We provide instructions for downloading and installing them in the Resources section of this page.

You are responsible for storing all your assignment and lab work on your own memory sticks, Laurier OneDrive storage, or other media. We strongly suggest that you keep at least two copies of your work at all times, for memory sticks can fail, or be lost.

MyLearningSpace

Laurier Library

Centre for Student Success (writing centre, math centre, academic advising, study skills/supplemental instruction, accessible learning)

Student Evaluation

Assessment	Weighting
Assignments	25%
Labs	10%
Midterm	20%
Java ZyBook	10%
Final Exam	35%

Students must pass the final exam in order to pass the course.

Weekly Schedule

Note: this schedule is subject to change.

Week	Starting	Labs	Assignments	Other
1	May 06			
2	May 7	1: Introduction		
3	May 14	2: Documentation	1: May 16	
4	May 21	3: Arrays		
5	May 28	4: Collections	2: May 29	
6	June 4	5: Exceptions		

Week	Starting	Labs	Assignments	Other
7	June 11	6: Inheritance and Polymorphism		Midterm, Thursday, June 13 (in lecture)
8	June 18	7:Lambda expression and Generics		
9	June 25	8: Layouts and Listeners	3: June 26	
10	July 2	9: Dialogs and Menus		
11	July 9	10: Graphics	4: July 10	
12	July 23	11: Threads		
13	July 30	Review	5: July 30	

University and Course Policies

1. **Special Needs:** Students with disabilities or special needs are advised to contact Laurier's Accessible Learning Centre for information regarding its services and resources. Students are encouraged to review the Academic Calendar for information regarding all services available on campus.

    Plagiarism: the University has approved the following wording for inclusion on all course syllabi about the use of the institutionally supported plagiarism software tool. "Wilfrid Laurier University uses software that can check for plagiarism. If requested to do so by the instructor, students are required to submit their written work in electronic form and have it checked for plagiarism." (Approved by Senate May 14, 2002)

    Academic Integrity: Laurier is committed to a culture of integrity within and beyond the classroom. This culture values trustworthiness (i.e., honesty, integrity, reliability), fairness, caring, respect, responsibility and citizenship. Together, we have a shared responsibility to uphold this culture in our academic and nonacademic behaviour. The University has a defined policy with respect to academic misconduct. As a Laurier student you are responsible for familiarizing yourself with this policy and the accompanying penalty guidelines, some of which may appear on your transcript if there is a finding of misconduct. The relevant policy can be found at Laurier's academic integrity website along with resources to educate and support you in upholding a culture of integrity. Ignorance is not a defense.

2. **Final Examinations:** Students are strongly urged not to make any commitments (i.e., vacation) during the examination period. Students are required to be available for examinations during the examination periods of all terms in which they register. Refer to the Handbook on Undergraduate Course Management for more information.

3. **Foot Patrol, the Wellness Centre, and the Student Food Bank:**

    Waterloo Student Food Bank: All students are eligible to use this service to ensure they're eating healthy when overwhelmed, stressed or financially strained. Anonymously request a package online 24-7. All dietary restrictions accommodated.

Waterloo Foot Patrol: 519.886.FOOT (3668) - A volunteer operated safe-walk program, available Fall and Winter daily from 6:30 pm to 3 am. Teams of two are assigned to escort students to and from campus by foot or by van.

Waterloo Student Wellness Centre: 519-884-0710, x3146 - The Centre supports the physical, emotional, and mental health needs of students. Located on the 2nd floor of the Student Services Building, booked and same-day appointments are available Mondays and Wednesdays from 8:30 am to 7:30 pm, and Tuesdays, Thursdays and Fridays from 8:30 am to 4:15 pm. Contact the Centre at x3146, wellness@wlu.ca or @LaurierWellness. After hours crisis support available 24/7. Call 1-844-437-3247 (HERE247).

Resources

Installing Eclipse
>	Instructions for installing Eclipse at home.

Using Eclipse / Java
>	An introduction to creating projects in Eclipse / Java.