WILFRID LAURIER UNIVERSITY
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Course Syllabus Spring 2019
CP104 Introduction to Programming
Department of Physics & Computer Science, Faculty of Science
Wilfrid Laurier University

Course Instructor
Dr. Safaa Bedawi
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Office: N2076J
Office Hours: Listed in MyLearningSpace or other times by appointment

Lab Instructors:
Mr. David Brown
Email: dbrown@wlu.ca   [Use the Laurier email system; do not use MyLearningSpace email.]
Office: N2091
Office Hours: by appointment. To arrange a time, please email Mr. Brown.

Course Overview
An introductory course designed to familiarize the student with modern software development techniques. Emphasis is on problem-solving and structured program design methodologies. Programming projects are implemented in a widely used high-level language. (This course may be "challenged for credit".)

Course Outline:
Basic components of a computer, introduction to programming languages, Python programs, numbers, variables, expressions, standard input/output, decision structures, nested decision structures, repetition structures, nested repetition structures, functions, arrays, tuples, lists, handling files, text processing.

Learning Objectives:
- develop the computational thinking skill and programming skills required to analyse problems and design algorithm to solve them programs and implement these in Python.
- Learn basic components of a high-level programming language.
- Gain experience in writing structured and modular computer programs.

Credit: 0.5
3 lecture hours, 2.5 lab hours weekly

Course web pages: https://bohr.wlu.ca/sbedawi/cp104/
https://mylearningspace.wlu.ca/

Lecture Schedule:

Section	Days	Times	Room
Lecture - E	MW	1:00 pm - 2:20 pm	Schlegel Centre - Room SB106

Lab Schedule: All labs are in BA113

Section	Days	Times
L1	M	2:30 pm - 4:50 pm
L2	W	2:30 pm - 4:50 pm

Course Textbook

Starting Out With Python, Fourth Edition
Tony Gaddis, 2017, Addison Wesley

ISBN-10: 0134444329

ISBN-13: 978-0134444321

You can purchase the etext version of the textbook from Laurier's bookstore. We do not use the more expensive "Access Card Package" or the "My Programming Lab" versions of the text.

Note: We will cover chapters 1 through 8 or 9 in this course. This is a new edition and the order of the material is different from previous versions.

Marking Scheme

Assignments	20%
Class participation	5%
Lab Tasks	15%
Midterm	20%
Final Exam	40%

- Students must pass the **weighted average** for midterm and final exams to pass the course.

Assignments
- No late assignment
- 9 assignments equally weighted
- Grade is based on the best 8 assignments.
- Assignments must be submitted online on MyLearningSpace.
- Due Friday at 11:30 am
- Due dates for the assignments are listed on the Assignments section on MyLearningSpace.

- All assignment work is done individually on your own, there is no group work allowed. Work will be checked for plagiarism. It is considered [Academic Misconduct](#) to provide your work to another student for any reason.

Missed Assignments
An assignment not handed in receives a mark of 0, unless there is a documented reason. If a documented reason is supplied, the weight of the missing assignment is shifted to the final exam. A copy of the documented reason must be given to and approved by the instructor.

Lecture Participation
- The purpose is to create a more engaging learning environment and improve student retention
- You will be using your own iClicker during class (bringing a friend's clicker is considered academic misconduct)
- Your best 75% of grades will be used for calculating your class participation grade
- You will receive marks for answering questions, but more marks for answering correctly
- Information about clicker registration will be posted on MyLearningSpace
  Note: If you have multiple courses that require a clicker, you will use the same clicker for all your courses. Only buy one clicker!

Labs tasks
- Labs are scheduled every week.
- **There is no lab during the first week of classes.**
- Lab tasks must be completed during the lab time. Lab tasks cannot be completed at home unless a system-wide malfunction during lab times.
- Due dates for the assignments are listed on the Assignments section on MyLearningSpace.

All work for this course (assignments, labs, clicker questions) is done individually. Work will be checked for plagiarism. **** The department penalty for the first case of an academic integrity issue is 0 (zero) for the component in question and -5% (minus five percent) on your final grade; penalty applies to all parties involved.*

Midterms
Wed June 26, 2019. Time: 1:00 pm - 2:20 pm, Location: TBD

Missed Midterm
A missed midterm exam will receive a mark of 0, unless there is a valid documented reason. If a documented reason is provided midterm for missing the midterm, its weight is applied to the final exam.

Final Exam
To be announced by the registrar office. Students **must pass the weighted average** for midterm and final exams to pass the course.

Weekly Schedule(s) Tentative and subject to change

Week	Topic / Chapter	Assignments / Labs
Week 1 -May. 6	Chapter 1. Introduction to computers and programming	No Lab
Week 2 – May 13	Chapter 1 (cont). Chapter 2. Input, processing and output	Lab 1 – Introduction
Week 3 - May 20	Chapter 2 (cont)	Lab 2 - Python formatted output Assignment 1 due –Fri. May 24
Week 4 - May 27	Chapter 5. Functions	Lab 3 – Problem solving Assignment 2 due –Fri. May 31
Week 5 - June 3	Chapter 3. Decision structures and Boolean logic	Lab 4 – Functions Assignment 3 Due -**Fri. June 07**
Week 6 - June 10	Chapter 4. repetition structure	Lab 5 - Decision structures Assignment 4 Due -**Fri. June 14**
Week 7 - June 17	Chapter 4 (cont)	Lab 6 – Repetition -FOR loops Assignment 5 Due - **Fri. June 21**
Week 8 - June 24	**Midterm: Wednesday June 26th** (In Class) Chapter 7. Lists and Tuples	Lab 7 – Repetition – While loops **No assignment due this week**
Week 9 – July 1	Chapter 7 (cont.) Chapter 8 – More about Strings Jul 2nd: Make-up Monday class for Canada Day	Lab 8 Lists Assignment 6 Due – **Fri. July 5**
Week 10 - July 8	Chapter 8 (cont.)	Lab 9 – Strings Assignment 7 Due - **Fri. July 12**
Week 11 - July 15	Chapter 6. files and Exceptions	Lab 10 -Files Assignment 8 Due – **Fri. July 19**
Week 12 -July 22	Chapter 7. Two dimensional Lists, Introduction to dictionaries	Lab 11 – Two dimensional list Assignment 9 Due -**Fri. July 26**
Week 13 -July 29 Classes end July 30st	Final exam Review July 29 Make-up **Monday** class for Victoria Day	

The educational materials developed for this course, including, but not limited to, lecture notes and slides, handout materials, examinations and assignments, and any materials posted to MyLearningSpace, are the intellectual property of the course instructor. These materials have been developed for student use only and they are not intended for wider dissemination and/or communication outside of a given course. Posting or providing unauthorized audio, video, or textual material of lecture content to third-party websites violates an instructor's intellectual property rights, and the Canadian Copyright Act. Recording lectures in any way is prohibited in this course unless specific permission has been granted by the instructor. Failure to follow these instructions may be in contravention of the university's Code of Student Conduct and/or Code of Academic Conduct, and will result in appropriate penalties. Participation in this course constitutes an agreement by all parties to abide by the relevant University Policies, and to respect the intellectual property of others during and after their association with Wilfrid Laurier University.

University and Course Policies

2. **Academic Integrity/Misconduct** (cheating): 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 non-academic behaviour. The University has a defined policy with respect to academic misconduct. You are responsible for familiarizing yourself with this policy and the penalty guidelines, and are cautioned that in addition to failure in a course, a student may be suspended or expelled from the University for Academic Misconduct and the offence may appear on their transcript. 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 of Laurier's academic misconduct policy is not a defense.** See: www.wlu.ca/academicintegrity

3. **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. See: https://academic-calendar.wlu.ca/dates.php?cal=1&t=355&y=77

4. **Plagiarism:** Wilfrid Laurier University uses software that can check for plagiarism. Students may be asked to submit their written work in electronic form and have it checked for plagiarism. (Approved by Senate May 14, 2002)

5. **Classroom Use of Electronic Devices** – see Policy 9.3 (Approved by Senate March 8, 2012) http://www.wlu.ca/documents/50202/9.3_Electronic_Device_Policy.pdf

6. **Late Assignment Policy –** Late assignments are not accepted. Students who are ill who miss the deadline for assignments must submit a doctor's note to the Lab Coordinator to have the work accepted. Work that is not submitted to the proper Dropbox will not be marked.

7. **Final Examinations** – Students are required to be available for examinations during the examination periods of all terms in which they register. (See Academic Regulations – examinations in the academic calendars) The examination period for Winter 2017 is : July 28 -Aug 9, 2017

8. **Foot Patrol, The Wellness Centre, and the Student Food Bank** (Approved by Senate November 28, 2011 – see last page.

9. **Other course policies**

- Students will have **two** weeks after a mark is posted to dispute the mark. After **two** weeks, no changes will be made. It is the responsibility of the student to ensure all grades are posted in MyLearningSpace.
- Grades will not be changed after the final exam has ended regardless of circumstances. If you are missing your marks email your Instructional Assistant immediately.
- If you are unable to write the midterms please contact your Course Instructor.
- Students must complete at least 3 / 5 assignments for term work. If you are unable to complete more than 2 assignments please contact your Course Instructor or Lab Coordinator. Students who complete 2 or less assignments risk the possibility of failing the course.
- Students must pass the weighted average for midterm and final exams to pass the course.

Guidelines for Technology use During Class and During Course Assessment

- Adhering to the University's policy on the use of electronic devices (see above) it is important for you to realize that the use of electronic devices such as cellphones, laptops, and tablets for **non-academic** use during lectures, labs, and assessments **is prohibited**.

- Answering messages, using social networking sites, or gaming are distracting practices that reduce the ability for you to learn the material that is provided. You are a distraction to others in the room as well as the instructor, so electronic devices will only be used for academic purposes.
- I'll request that your cellphone is turned off and put away during lectures, labs, and midterms so you do not distract others, and so that your potential for learning is increased.

If you have personal reasons that require the use of a cellphone for emergency contact reasons, please contact me to discuss them so we can make appropriate arrangements.

Lab Regulations
- The labs are the hands-on portion of the course. In the lab you will be taught how to use WLU's PC network - you will not need your own computer and there is no space for you to use your own laptop.
- It is **very** important to attend labs if you have no previous background in the topics presented, or if you need a refresher. Lab attendance is mandatory to achieve full grades in the course.
- Arriving late causes distractions for your classmates who were able to arrive on time.
- If you miss lab due to illness, make sure you visit Health Services and receive a doctor's note and provide it to the course instructor.
- The Lab instructor will make alternate arrangements in case of equipment failure, holidays, illness, etc. These changes will be posted to the MyLearningSpace web site. Check your WLU email on a regular basis.

General Regulations

Course Drop Dates
Please refer to the Undergraduate Academic Calendar - Academic Dates Fall term 2017 - for details of course add/drop dates, etc.

Accessible Learning Centre
Students with disabilities or special needs are advised to contact Laurier's Accessible Learning Centre for information regarding its services and resources, ext. 3086. Students are encouraged to review the Calendar for information regarding all services available on campus.

Learning Services
There is a range of academic learning support services offered at Laurier designed for all students who want to improve their academic achievement in the classroom. These services include the following specific areas:
- Central Academic Advising Office
- Mathematics Assistance Centre
- Study Skills and Supplemental Instruction Centre
- Writing Centre

Visit the Learning Services web page for detailed information.

Laurier Email Account
Our official means of communication is with your Laurier email account. Students are expected to regularly check their Laurier email account for important notices from the university community. Students are also expected to send emails to official members of the university community from their Laurier email account in order to ensure delivery.

KITCHENER/WATERLOO

Student Food Bank | www.wlusu.com/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.

Foot Patrol | 519.886.FOOT (3668)

A volunteer operated safe-walk program, available Fall and Winter, daily from 6:30pm to 3am. Teams of two are assigned to escort students to and from campus by foot or by van. http://www.wlusu.com/foot-patrol/

Peer Connect | 1.866.281.PEER (7337)

A confidential listening, referral, and information line available during evening hours to provide support and resources. Sunday to Thursday, 12pm – 2am | Friday to Saturday 12pm – 3am
http://www.wlusu.com/peer-help-line/

The Wellness Centre | 519-884-0710, x3146

The Wellness Centre supports students' physical, emotional and mental health needs. Located on the 2nd floor of the Student Services building, booked and same-day appointments are available Monday to Wednesday 8:30 am – 7:30 pm, Thursday to Friday 8:30 am-4:15 pm. Contact: x3146, wellness@wlu.ca or @LaurierWellness. After hours crisis support available 24/7 - "Good 2 Talk"
1-866-925-5454.