

Course Syllabus Fall 2020
CP104 Introduction to Programming
Department of Physics & Computer Science, Faculty of Science
Wilfrid Laurier University

Course Instructor

Dr. Safaa Bedawi

Email: sbedawi@wlu.ca

(Please use this email, do not use MyLearningSpace email)

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 Hours: by appointment. To arrange a time, please email Mr. Brown.

Mr. Sukhjit Singh Sehra

Email: ssehra@wlu.ca [Use the Laurier email system; do not use MyLearningSpace email.]

Office Hours: by appointment. To arrange a time, please email Mr. Sehra.

Mr. Heider Ali

Email: heali@wlu.ca Use the Laurier email system; do not use MyLearningSpace email.]

Office Hours: by appointment. To arrange a time, please email Dr. Ali

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.

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://mylearningspace.wlu.ca/>
<https://bohr.wlu.ca/cp104/>

Remote Lecture Schedule:

Section	Days	Times	Room
Lecture - A	MWF	01:30 PM - 02:20 PM	Online live lecture Zoom meeting link Please log in using your Laurier email account.
Lecture - B	MW	04:00 PM - 05:20 PM	Online live lecture Zoom meeting link Please log in using your Laurier email account.

Remote Lab Schedule: Online via zoom meeting. Visit Myls page for CP 104 and locate the Zoom meeting link under "Zoom Lab Sessions" in the "Content" section of the page.

Section	Days	Times	Lab Instructor	Room
L01	M	02:30 PM - 04:50 PM	Mr. David Brown	Zoom link posted on MyLS
L02	T	01:30 PM - 03:50 PM	Mr. David Brown	Zoom link posted on MyLS
L03	T	04:00 PM - 06:20 PM	Mr. David Brown	Zoom link posted on MyLS
L05	W	03:00 PM - 05:20 PM	Mr. Sukhjot Sehra	Zoom link posted on MyLS
L06	W	05:30 PM - 07:50 PM	Mr. Sukhjot Sehra	Zoom link posted on MyLS
L07	R	08:30 AM - 10:50 AM	Mr. Heider Ali	Zoom link posted on MyLS
L08	R	11:00 AM - 01:20 PM	Mr. Sukhjot Sehra	Zoom link posted on MyLS
L09	R	01:30 PM - 03:50 PM	Mr. Sukhjot Sehra	Zoom link posted on MyLS
L10	R	04:00 PM - 06:20 PM	Mr. Sukhjot Sehra	Zoom link posted on MyLS
L11	F	08:30 AM - 10:50 AM	Mr. Heider Ali	Zoom link posted on MyLS
L12	F	12:00 PM - 02:20 PM	Mr. Heider Ali	Zoom link posted on MyLS
L14	T	07:00 PM - 09:20 PM	Mr. David Brown	Zoom link posted on MyLS

Course Textbook

Starting Out With Python, fifth Edition
Tony Gaddis, 2021, Addison Wesley

Print ISBN: 9780136679110, 0136679110

eText ISBN: 9780136719199, 0136719198

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 10 in this course. This is a new edition and the order of the material is different from previous versions.

Marking Scheme

Assignments (A)	20%
Class participation(P)	5%
Lab Tasks (L)	15%
Midterm (M)	20%
Final Exam (F)	40%

- Students must pass the **weighted average** for midterm and final exams to pass the course.
If $(M + F) / 60 \geq 50\%$ then Final Course Mark = $A + P + L + M + F$
Otherwise Final Course Mark = $(M + F) / 60$ (final course mark < 50%, Failing mark of the course)

Lecture Participation

- The purpose is to create a more engaging learning environment and improve student retention
- iClicker Cloud will be used. You can use iClicker in mobile your device (Laptop/Phone)
- You will be using your own iClicker Cloud 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 subscription! You can buy it at the wlu bookstore.

Assignments

- No late assignment
- 9 assignments
- Grade is based on the best 8 assignments (equally weighted).
- Assignments must be submitted online on MyLearningSpace.
- Due Monday at 10:30 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.

Labs tasks

- Labs are scheduled every week.
- Labs will be done remotely using zoom. Zoom meeting are scheduled for each lab, you must login through MyLearningSpace to your designated lab time.
- Instructions on how the lab will run remotely are post in MyLearningSpace on lab section.
- **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 labs are listed on the lab section on MyLearningSpace.

- Lab attendance is mandatory to achieve full grades in the course. Students must complete at least 9 / 11 labs to be eligible to pass the course. If you are unable to attend more than 8 labs please contact your Course Instructor or Lab Coordinator.

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

Saturday Oct 31, 2020. Time: 11:00 am - 12:20 pm, Online on Myls (tentative)

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** of midterm and final exams to pass the course.

Exams will be proctored virtually, with an external webcam or mobile phone."

Weekly Schedule(s) Tentative and subject to change

Week	Topic / Chapter	Assignments / Labs
Week 1 -Sept. 7 Lectures start Sep 10	Course overview Chapter 1. Introduction to computers and programming	No Labs
Week 2 – Sept 14	Chapter 1. (cont) Chapter 2. Input, processing and output	Lab 1 – Introduction
Week 3 - Sept 21	Chapter 2 (cont)	Lab 2 - Problem solving
Week 4 – Sept 28	Chapter 5. Functions	Lab 3 – Python formatted output Assignment 1 due –Mon. Sept 28
Week 5 – Oct 5	Chapter 3. Decision structures and Boolean logic	Lab 4 – Functions Assignment 2 due –Mon. Oct 5
Week 6 – Oct 12	Oct 12 - Thanksgiving Fall Reading Week (Oct 13 - Oct 16)	No classes/Labs
Week 7 - Oct 19	Chapter 4. repetition structure	Lab 5 - Decision structures Assignment 3 Due -Mon. Oct 19
Week 8 - Oct 26	Chapter 4 (cont) Midterm review	Lab 6 – Repetition -FOR loops Assignment 4 Due -Mon. Oct 26

Week 9 – Nov 2	Midterm: Saturday Oct 31 Chapter 7. Lists and Tuples	No assignment due this week
Week 10 - Nov 9	Chapter 7 (cont.) Chapter 8 – More about Strings	Lab 7 – Repetition – While loops Assignment 5 Due - Mon. Nov 9
Week 11 - Nov 16	Chapter 8 (cont.)	Lab 8 Lists Assignment 6 Due – Mon. Nov 16
Week 12 – Nov 23	Chapter 6. files and Exceptions	Lab 9 – Strings Assignment 7 Due - Mon. Nov 23
Week 13 – Nov 30	Chapter 7. Two dimensional Lists,	Lab 10 -Files Assignment 8 Due – Mon. Nov 30
Week 13 -Dec 7 Classes end Dec 9 th	Introduction to OOP Final exam Review	Lab 11 – Two dimensional list Assignment 9 Due - Mon. Dec 7

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

- 1. 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
- 2. 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](https://academic-calendar.wlu.ca/dates.php?cal=1&t=382&y=81). See <https://academic-calendar.wlu.ca/dates.php?cal=1&t=382&y=81>
- 3. 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)

4. **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
5. **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.
6. **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 Fall 2020 is : Dec12 -Dec23, 2020.
7. **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 6 / 9 assignments for term work. If you are unable to complete more than 5 assignments please contact your Course Instructor or Lab Coordinator. Students who complete 5 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.
- It is **very** important to attend labs if you have no previous background in the topics presented, or if you need a refresher. Arriving late causes distractions for your classmates who were able to arrive on time.
- Lab attendance is mandatory to achieve full grades in the course. Students must complete at least 9 / 11 labs to be eligible to pass the course. If you are unable to attend more than 8 labs please contact your Course Instructor or Lab Coordinator.
- 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 holidays, illness, etc. These changes will be posted to the MyLearningSpace web site. Check your MyLearningSpace announcement and WLU email on a regular basis.

General Regulations

Course Drop Dates

Please refer to the Undergraduate Academic Calendar - [Academic Dates](#) Fall term 2020 - 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.

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.