ITI1120 A, B: 2024

Professor: Vida Dujmović
Office: SITE 5007

– Course Web page: uottawa.brightspace.com

– Office hours of the professor: to be determined
– TAs: to be determined
(no such thing as “my TA”)

Course webpage and online material

uottawa Brightspace: (Virtual Campus)

- Supplemental course material (code from lectures, videos, some notes, labs ..)
- All communication via Brightspace
- Discussion forum (use it and subscribe to all topics)
- Assignments and Assignment Submission
- Grades

To access Brightspace go to uottawa.brightspace.com

Labs and Lectures

– Go to your assigned lectures

– Go to your assigned labs

- Read all the Birghtspace Announcements carefully

Textbook

Main textbook (required):

"Introduction to Computing Using Python: An Application Development Focus, 2nd Edition" by Ljubomir Perkovic

- Paper version at uOttawa bookstore or order onine
- eBook online ($50.95 or $21 ebook rental for 1 semester)

https://www.wiley.com/en-ca/Introduction+to+Computing+Using+Python%3A+An+Application+Development+Focus%2C+2nd+Edition-p-9781118890943

Other recommended books

Another book: *Practical Programming (3nd ed): An Introduction to Computer Science Using Python 3.6”* by Paul Gries, Jennifer Campbell, Jason Montojo

The eBook is available here for .
https://pragprog.com/titles/gwpy3/practical-programming-third-edition/

Free interactive book:
`https://runestone.academy/ns/books/published/fopp/index.html`

Labs

- Labs will start on Monday, 9th of September.
- Once labs start, you will have them once a week **every** week until the end of the semester
- Labs are mandatory
- The first lab:
  - How to use the Brightspace to submit assignments:

  To help you practice submitting assignments, during Lab 1, you will submit Assignment 0. Assignment 0 is worth 0% and will not be graded. Its only purpose is to practice submitting assignments.

  - Bring your own laptop if you had problems installing python. TA may be able to help

Labs

- Scheduled labs will be in groups of about 40-80 students, with help available from Teaching Assistant(s).
- You will be in a room with computers available for each student but you can use your own laptop instead.
- All labs will involve programming in Python 3
- You should have been assigned to one of the available lab sections, and you must attend that session each week.
  - Your lab section assignment is available via uZone
- The STE 0110 general lab is available at other times.

Assignments

- There will be 6 programming assignments during the term.
- All assignments will involve programming in Python; and maybe some will involve written work.
- Learn how to submit assignments. You will practice this during Lab 1. (see Slide 6)

Midterm Examination

- Duration: 1h20m

- Date: Sunday, November 3
- Time: 9am - 10:20 am

- closed-book midterm exam

Final Examination

- To be scheduled by the University Registrar
  - The exam date and time will be scheduled during the exam period
  - Check the university web site later for the date, time, and location.

- closed-book exam

Determination of Final Grade

LABS and ASSIGNMENTS: (total 26%)

- Labs (11 labs: 1st lab 0%, the rest 0.5% each): 5%
- Assignment 1 2.5%
- Assignment 2 2.5%
- Assignment 3 4%
- Assignment 4 4%
- Assignment 5 4%
- Assignment 6 4%

EXAMS: (total 74 %)

- Quiz: 5%
- Midterm: 24%
- Final examination: 45%

Dates/times of Assignments/Tests

ALL assignments will be posted by me on and submitted by you on Brightspace:

Assignments:

Assignment 1: available on Sept 13 --> Due Sept. 23 at 8am
Assignment 2: available on Sept 23 --> Due Sept. 30 at 8am
Assignment 3: available on Sept 30 --> Due Oct. 14 at 8am
Assignment 4: available on Oct 14 --> Due Oct. 28 at 8am
Assignment 5: available by Nov 4 --> Due Nov. 18 at 8am
Assignment 6: available on Nov 18 --> Due Dec 2 at 8am

Tests:

Quiz 1: Oct 09 in class
Midterm: 9am on Sunday Nov 3, 2023
Final : to be determined

Things to do right away

1. Check your lab schedule
2. Familiarize yourself with Brightspace (Virtual Campus)
3. Get the textbook
4. If you want to work on your own computer, install Python 3.11.
5. Find out how to start IDLE, write your first python program. run it, save it, close it, open it again (in lab, at home …)

Course Policies

- Missed/late assignments: mark of zero.
  - An assignment may be exempted only if a medical certificate is given to the professor within one week of the due date.
  - In that case, the weight of missed assignment will be transferred to the final.

- Absence from midterm / final examination: see the university regulation 8.5 and 8.6: https://www.uottawa.ca/about-us/policies-regulations/academic-regulations/a-8-evaluation-student-learning

  - In the case of justified absence the weight of the midterm will be transferred to the final.
  - Examples of unjustified absence: Travel, employment, misreading the timetable …

Course Policies

- Evaluation scheme cannot be changed

Intégrité dans les études /Academic Integrity

- **Academic Integrity**
  https://www.uottawa.ca/current-students/academic-integrity
- **Plagiarism**
  - **Turnitin** – Check for similarities in **reports** between journal articles, books, Wikipedia, and student works from previous years
  - **MOSS** – Measure of Software Similarity in **codes**
- **Sanctions:** https://www.uottawa.ca/about-us/policies-regulations/academic-regulations/a-4-academic-integrity-academic-misconduct

  Sanctions include:
  - the mark of F or zero for the course concerned
  - an additional (ethics) course
  - suspension from the Faculty (one session up to three years)
  - expulsion from the Faculty

Plagiarism

To reduce the need to worry about plagiarism, follow this rule of thumb:

Never look at any other person/group's assignment code, or have their code in your possession, in any portion or form whatsoever. Also never share your assignment code with other students. Never use chatGPT or other AI engines to solve your assignments/exams.

Read the following three pages in detail

Academic Integrity

- What is academic fraud?
  - Misrepresenting someone else's work as your own including work by AI engines like ChatGPT:
    - Failure to cite sources, including the internet and discussions.
    - Use of the words of someone else without quotation marks or other highlighting.
  - Falsified lab data or citations.
  - Violation of examination regulations.
  - Tampering with academic evaluations.
  - Helping another student do any of the above.

Policy on plagiarism

Plagiarism is a kind of fraud: passing off someone else's work or ideas as your own in order to get a higher mark. Plagiarism is treated very seriously. The assignments you hand in must be your own and must not contain anyone else's ideas. Refer to the University of Ottawa's Policy on Academic Fraud for a more detailed description of plagiarism and sanctions.

https://www.uottawa.ca/about-us/policies-regulations/academic-regulations/a-4-academic-integrity-academic-misconduct

Guidelines to help avoid plagiarism

You may discuss assignments with friends and classmates, but only up to a point: you may discuss and compare general approaches and also how to get around particular difficulties, but you should not leave such a discussion with any written material. You should not look at another student's solution to an assignment on paper or on the computer screen, even in draft form. The actual coding of your programs, analysis of results, writing of reports and answering assignment questions must be done individually.

Downloading/Copy code or any other material from the Internet, AI engines like chatGPT, and submitting it as your own work without credit is also plagiarism. If you do talk with anyone about an assignment, please state this in your assignment and state the extent of your discussion. If you use another resource (such as textbooks, internet resources, etc) when solving your assignment, include the proper reference.

Note that it is also a serious offense to help someone commit plagiarism. Do not lend your assignment answers, code, printouts, reports, and do not let others copy or read them. Be mindful to protect yourself against people copying your work without your knowledge - retain all of your old printouts and draft notes until the assignments have been graded. Do not leave your computer unattended with unlocked screen. If you suspect that someone has stolen your work, contact your instructor immediately.

Helping Each Other

Although you must not solve your assignments with the help of others, there are still many ways in which students can help each other. For instance, you can go over difficult lecture or lab material, work through exercises, or help each other understand an assignment handout. This sort of course collaboration can be done in study groups or through the discussion group.

The Brightspace discussion forum can be used to discuss techniques and tools used in assignments, but the discussions should never mention or present any potential or partial solutions to assignment questions. You can consider creating a study group.

If in doubt about whether a question you are asking or answering is against these guidelines, ask your TA (teaching assistant) the question instead.

Detecting Plagiarism

Measures taken to detect plagiarism

1. TAs have been instructed to report any suspicious of plagiarism they find, when they mark assignments, to the professor.
2. Programs that you submit will be screened using plagiarism detection software that is very effective at detecting similarities. The professor will take appropriate measures, once plagiarism is detected on part or on the whole of an assignment. Note that copying or lending is considered to be equally serious offenses.

Reference

This document is a translation of the the French document prepared by Daniel Amyot and is based in part on "Policy on Plagiarism" by Dr. Amy Felty.

Academic standing / Rendement scolaire

- Calculated after 8 courses/24 credits

- Cumulative Grade Point Average (CGPA / MPC)
  - **Good standing** ≥ 5
  - **Probation** (24 credits max.) ≥ 3 and < 5
    (probation is not unlimited in time/courses)
  - **Mandatory withdrawal** < 3

- Passing grade for engineering courses: D

- **Passing grades <u>do not ensure</u> graduation!**

Alpha Grade	Numeric Value	%
A+	10	90-100
A	9	85-89
A-	8	80-84
B+	7	75-79
B	6	70-74
C+	5	65-69
C	4	60-64
D+	3	55-59
D	2	50-54
E	1	40-49
F	0	0-39

https://www.uottawa.ca/current-students/academic-regulations-explained/academic-standing-grading-system

https://www.uottawa.ca/about-us/policies-regulations/academic-regulations/b-6-academic-standing-probation-and-mandatory-withdrawal-for-undergraduate-programs

General Suggestions

- Based on problems identified by the the Committee on Academic Standing
  - Stay engaged: attend classes, tutorials, etc.
  - Understand academic regulations
    - Do not take too many courses, 130 hours per course
    - Consider dropping a course in which you have low average
  - Take university seriously
  - Do not work too many hours (in part-time jobs)
  - Not making connect between mathematics and science to engineering and computer science applications

Suggestions for ITI1120

- Do not fall behind
- Program as much as possible (labs, problems at the end of each chapter of the textbook, assignments, …)
- After class, run the code we did in class. See if you understand why it does what it does. Play with it.
- Consider bringing the laptop to lectures and type as I do (if you are fast typer and can multitask)
- When programming, do not be afraid to make mistakes (make sure each small part of program is correct before moving to next part)
- Read a textbook
- Make use of office hours

Mentoring Centre

- Designed to **compliment** tutorials and office hours.
- Designed to teach **study skills** in the context certain courses.
- Helps students **meet other students** in the courses.
- **Workshops** are going to be provided on:
  - **Time Management**
  - **Stress and Anxiety**

Mentoring Centre

Study groups offered for the following courses:

https://www.uottawa.ca/faculty-engineering/student-experience/mentoring

Fall	Winter
GNG 1105	GNG 1105
GNG 1505	ITI 1100
GNG 1106	ITI 1500
GNG 1506	ITI 1121
ITI 1120	ITI 1521
ITI 1520	MAT 1320
MAT 1320	MAT 1720
MAT 1720	MAT 1322
MAT 1341	MAT 1722
MAT 1741	MAT 1341
	MAT 1741
	CHG 1125/1525
	MCG 1100/1500

L'atelier The Workshop
Le centre de mentorat en génie et en informatique
The engineering and computer science mentoring centre