**Class – 406** Tuesday/Thursday, 11:50 am – 1:20 pm

**Class – 405** Tuesday /Thursday, 1:30 pm – 3:00 pm

14 E Jackson, Room 512

405L - Lab: Wednesday, 8:30 am – 10:00 am, 14 E Jackson, Room 512

406L - Lab: Wednesday, 3:10 pm – 4:40 pm, 14 E Jackson, Room 512

**Instructor**: Mr. James Foster

**Email**: jfoste12@depaul.edu

**Office** **hours**: *Office hours can be arranged by contacting your instructor via email*

 I will be available any day of the week, except Tu and Thr, via Zoom on the office hours

url (available on d2l). Just send me an email with a suggested day and time and I will confirm or suggest an alternate time.

Please make use of my office hours!  Asking questions about the assessments, class notes, labs, or the readings can improve your understanding enormously.  It will also let me know if I need to review a topic with the class.

**Course technologies**

This course uses several platforms to enable our interactions:

All information for the course is posted to the Desire2Learn (D2L) site. To log onto the D2L page visit: [https://d2l.depaul.edu/](https://d2l.depaul.edu/d2l/home)

Course notes, programming assignments, lab assignments, exam study guides, the midterm and final exam, and other course materials will be available through the D2L site.

There will also be links to course recordings which are useful for review. The recordings will be in the News section of d2l.

We will also use CodeLab for some assignments and labs. CodeLab can be found at <http://www.turingcraft.com/> . There is a page that provides information about logging into CodeLab and using the site for assignment that can be found on the d2l site. Please make sure that you review it.

**Prerequisites**

Ordinarily the prerequisite for this class is MAT 130: Precalculus or an equivalent high-school or college course covering algebra and precalculus.

**Course topics and learning goals**

This course is the first of a two-course sequence introducing computer science.  The focus of the course is on problem solving, algorithm development, and structured and object-oriented programming using Python and the Python API (application programming interface), all in the context of building computer applications.

In the first course we will focus on structured programming and learn how and when to use conditionals, loops, and functional and modular abstractions.

After you have taken this class:

1. You will understand that a focus of computer science is developing applications for computer systems.
2. You will have stronger problem-solving skills.
3. You will know how to develop algorithmic solutions for basic computational problems.
4. You will understand fundamental programming structures such as expressions, assignments, decision and iteration structures, functions, and modules.
5. You will have basic Python programming skills.
6. You will be prepared for the second course in the sequence, CSC 242: Introduction to Computer Science II

**Course calendar**

The following gives all the important dates for this course.  The topics covered are subject to change.

|  |  |  |
| --- | --- | --- |
| Week | Date | Topic/Deadline |
| 1 | Wednesday, September 7, 2022 | *Lab cancelled* |
| Thursday, September 8, 2022 | Introduction to the course and Python |
| Tuesday, September 13, 2022 | Input structures, strings, and Boolean expressions |
| Tuesday, September 13, 2022 | *Last day to add classes – 11:59 pm* |
| 2 | Wednesday, September 14, 2022 | Lab 1  |
| Thursday, September 15, 2022 | Boolean expressions, assignments, and lists |
| Tuesday, September20, 2022 | Functions and decision structures |
| Tuesday, September 20, 2022 | *The last day to drop classes with no penalty* |
| 3 |  |  |
| Wednesday, September 21, 2022  | Lab 2  |
| Thursday, September 22, 2022 | Functions, decision structures, iteration structures |
| Tuesday, September 27, 2022 | Functions and strings |
| 4 | Wednesday, September 28, 2022  | Lab 3  |
| Thursday, September 29, 2022 | Strings, decision structures, numeric types, operator precedence, formatted output |
| Tuesday, October 4, 2022 | Modules and file processing |
| 5 | Wednesday, October 5, 2022  | Lab 4  |
| Thursday, October 6, 2022 | File processing |
| Tuesday, October 11, 2022 | File processing |
| 6 | Wednesday, October 12, 2022  | *Lab cancelled*  |
| Thursday, October 13, 2022 | Midterm exam 11:50 am- 1:20 pm - section 406Midterm exam 1:50 pm- 3:00 pm - section 405 |
| Tuesday, October 18, 2022 | Exceptions |
| 7 | Wednesday, October 19, 2022 | Lab 5  |
| Thursday, October 20, 2022 | Exceptions, objects, character encodings, loop patterns (iteration and indexed loops) |
| Tuesday, October 25, 2022 | Loop patterns (indexed loops and accumulator loops) |
| Tuesday, October 25, 2022 | *Last day to withdraw from classes* |
| 8 | Wednesday, October 26, 2022 | Lab 6  |
| Thursday, October 27, 2022 | Loop patterns (accumulator loops and nested loops), multidimensional lists |
| Tuesday, November 1, 2022 | Loop patterns (while loops, infinite, and iterative loops) |
| 9 | Wednesday, November 2, 2022 | Lab 7  |
| Thursday, November 3, 2022 | Dictionaries |
| Tuesday, November 8, 2022 | Dictionaries |
| 10 | Wednesday, November 9, 2022 | Lab 8  |
| Thursday, November 10, 2022 | Other collection types (tuples and sets), the random module |
| Tuesday, November 15, 2022 | Other collection types (tuples and sets), the random module |
| 11 | Wednesday, November 16, 2022 | Lab – open study both sections |
| Tuesday, November 22, 2022 | Final exam: 11:50 am- 1:20 pm - section 406 |
| Final exam: 1:50 pm- 3:00 pm - section 405 |

**Textbook**

The required textbook for the course is **Introduction to Computing using Python**: An Application Development Focus, **Second Edition**, Ljubomir Perković, John Wiley & Sons, 2015. Please buy the electronic version of the text since it contains case studies that we will be using. The electronic text has ISBN 978-1-118-89105-6. You can buy the ebook directly from the publisher if you like: [http://www.wiley.com/WileyCDA/WileyTitle/productCd-EHEP003201.html#student](http://www.wiley.com/WileyCDA/WileyTitle/productCd-EHEP003201.html#studenthttp://www.wiley.com/WileyCDA/WileyTitle/productCd-EHEP003201.html#student)

**Grading policy**

Course assessments include lab attendance, programming assignments, and a midterm and final exam.  The course grade will be computed as follows:

|  |  |
| --- | --- |
| **Assessment** | **Percentage** |
| Lab exercises | 10 % |
| Homework Programming assignments | 30 % |
| Midterm exam | 30 % |
| Final exam | 30 % |

All students will be required to sign and return an **Academic Integrity pledge** at the start of the quarter. The Academic Integrity pledge will be posted on the d2L site. The pledge must be signed and returned as a part of the first homework assignment. Students that violate this agreement are violating the Academic Integrity policy of DePaul University. See the section on Academic Integrity below for more information about that policy and penalties for violating it.

To do well in this class, you must attend the class sessions and labs regularly, participate in class discussions, read the chapters in the book as indicated in the homework assignment, start work on the assignments early, and ask questions early and often. The answers to the programming assignment and the lab and exam questions should be written in a way that is rigorous, clear, and concise.

**Lab exercises**

Every **Wednesday** you will have lab exercises available at **8:30** **am** and due at 12 pm (**for section 405L**) and at **3:10 pm** due at 6:40 pm (**for section 406L**). You are highly encouraged to attend the scheduled lab session, **at the respective time for your section**, which takes place in room 512 of the 14 E. Jackson building. Students attending the lab session in person will have priority for answers and help from the teaching assistant. If for whatever reason you cannot attend the lab session, you can log into a Zoom help session conducted by the teaching assistant. You can find the link for the lab sessions in the course calendar on d2L.

To receive full points for the lab exercises, you must submit solutions to all exercises on the lab assignment by the deadline for your respective section on **Wednesday** of the lab session. Lab submissions are accepted up to 12 hours after the deadline for partial credit. The penalty for submissions received up to 12 hours late is 15%, meaning that the maximum lab score that can be earned for a late submission is 8.5 points. No submissions will be considered more than 12 hours after the original lab deadline for any reason. Your lowest lab score will be dropped in the calculation of your course grade.

**Midterm and final exams**

**The midterm and final exams will be cumulative**.  The midterm exam will take place on Thursday, October 13, 2022, during your class period. The final exam will take place on Tuesday, November 22, 2022, during your class period. Both exams will be conducted in a lab and will require you to write Python code. The details about how the exams will be given will be shared later in the quarter on the midterm and final exam study guides which will be posted to d2L.

**Make-up exams will not be given**. If you wish to petition for a make-up exam, you must notify me in advance and provide documented evidence of the emergency that will cause you to miss the exam. Failure to contact me in advance of the exam date and time will disqualify you from being allowed to take a make-up exam. If a make-up exam is granted, it will be of a form of my choosing.

**Online course evaluations**

Evaluations are a way for students to provide valuable feedback regarding their instructor and the course. Detailed feedback will enable the instructor to continuously tailor teaching methods and course content to meet the learning goals of the course and the academic needs of the students. They are a requirement of the course and are key to continue to provide you with the highest quality of teaching.

The evaluations are anonymous; the instructor and administration do not track who entered what responses. A program is used to check if the student completed the evaluations, but the evaluation is completely separate from the student's identity. Since 100% participation is our goal, students are sent periodic reminders over three weeks. Students do not receive reminders once they complete the evaluation.

**Covid-19 health and safety precautions**

Keeping our DePaul community safe is of utmost importance in the pandemic. Students, faculty and staff are expected to:

(1) wear a mask if required while indoors on campus.

(2) refrain from eating and drinking in classrooms.

(3) keep current with their COVID-19 vaccinations or exemptions.

(4) stay home if sick.

(5) participate in any required COVID-19 testing.

(6) complete the online Health and Safety Guidelines for Returning to Campus training; and

(7) abide by the City of Chicago Emergency Travel Advisory. By doing these things, we are Taking Care of DePaul, together.

The recommendations may change as local, state, and federal guidelines evolve. Students who do not abide by the mask requirement may be subject to the student conduct process and will be referred to the Dean of Students Office. Students who have a medical reason for not complying with any requirements should register with DePaul's Center for Student with Disabilities (CSD).

**Academic integrity**

The course adheres to the DePaul University's Academic Integrity Policy. For complete information about Academic Integrity at DePaul University, please see: <http://academicintegrity.depaul.edu/>.

Cheating is any action that violates university norms or instructor's guidelines for the preparation and submission of assignments. This includes, but is not limited to, unauthorized access to examination materials prior to the examination itself; use or possession of unauthorized materials during the examination or quiz; having someone take an examination in one's place; copying from another student; unauthorized assistance to another student; or acceptance of such assistance.

Plagiarism involves the presentation of the work of another as one's own. Plagiarism includes, but is not limited to the following: the direct copying of any source, such as written and verbal material, computer files, audio disks, video programs or musical scores, whether published or unpublished, in whole or part, without proper acknowledgment that it is someone else's; copying of any source in whole or part with only minor changes in wording or syntax, even with acknowledgment; submitting as one's own work a report, examination paper, computer file, lab report or other assignment that has been prepared by someone else (including research papers purchased from any other person or agency); the paraphrasing of another's work or ideas without proper acknowledgment; working so closely with another person so as to produce identical code.

All students are expected to abide by the University's Academic Integrity Policy which prohibits cheating and other misconduct in student coursework. The use of others' web/publication content (text, graphics, code) is regarded as plagiarism if credit is not given (see the above description of plagiarism). Using materials that the student prepared for other purposes (e.g., for another course or for his/her work) needs the course instructor's prior permission. Publicly sharing or posting online any prior or current materials from this course (including exam questions or answers), is considered to be providing unauthorized assistance prohibited by the policy. Both students who share/post and students who access or use such materials are considered to be cheating under the Policy and will be subject to sanctions for violations of Academic Integrity.

A charge of cheating and/or plagiarism is always a serious matter. It can result in an automatic F in the course and possible expulsion.

**Mental health and academic assistance**

Balancing the hard work of achieving your educational goals with the other demands of life is difficult at the best of times. For many of us, for a variety of reasons, things are more difficult now. I want to make sure you feel comfortable reaching out to me for support. The university also has great resources just a phone call or email away. These have been created and maintained for you, so use them:

DePaul University Counseling Services: Mental health is as important as physical health, and there are professionals a phone call away: (773) 325-7779 or 911 for emergency situations. You can find more information here: <https://offices.depaul.edu/student-affairs/about/departments/Pages/ucs.aspx>

The DePaul Dean of Students can help you with a wide range of topics, including figuring our if you should withdraw or apply for an incomplete: <https://offices.depaul.edu/student-affairs/about/departments/Pages/dos.aspx>

There are a lot of additional, more specific resources listed with the Office of Student Affairs, including crisis hotlines and sexual assault resources: <https://offices.depaul.edu/student-affairs/support-services/counseling/Pages/Crisis-Hotlines.aspx>

**Incomplete**

An incomplete grade is given only for an **exceptional** reason such as a death in the family, a serious illness, etc. Any such reason must be documented. Any incomplete request must be made at least two weeks before the final and approved by the Dean of the College of Computing and Digital Media. Any consequences resulting from a poor grade for the course will not be considered as valid reasons for such a request. **Students must have been making adequate progress in the class prior to the emergency to be eligible to apply**.