Winter 2021

IT 211 Intro to Applied Programming

## Contact Info

Sean Bush

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E-mail is the preferred method of contact, as I check my email daily. Most emails will be answered within 24 hours. If you do not receive a reply within 24 hours, check to make sure the email address is correct and email me again. When emailing me, you must include the course number in the subject. Example: IT211: question about variables.

**Office Hours**

## All office hours are conducted by Zoom. Tuesdays and Thursdays 2:00 – 3:00 pm & 5:00 – 6:00 pm by appointment only via email.

## Course Overview

Students learn elementary programming concepts through the Python programming language.

## Course Goals

The primary goal of this course is to provide a general understanding of programming and computing by developing elementary scripts. Specific goals include but limited to writing scripts with the following:

* Expressions and assignment statements with diverse data types
* Control statements including conditionals (if statements) and loops
* Arrays and iterators
* Defining simple methods
* Defining and using classes

**Changes to Syllabus**

## This syllabus is subject to change as necessary during the quarter. If a change occurs, it will be thoroughly addressed during class and sent via email.

## Prerequisites

IT 130 or IT 202

**Textbook**

***Python Fundamentals: A practical guide for learning Python***, Packt Publishing. ISBN: 978-1781789807325

The book is available online for free via DePaul eBook Collections.

1. Go to either one of these links:

<https://libguides.depaul.edu/az.php?t=6193> Click on O’Reilly for Higher Education.

OR

<https://go.oreilly.com/depaul/>

2. You should be able to login using your campus connect username and password.

3. Type Python Fundamentals packt in the search field on the top of the page.

**GRADING POLICY**

**Grading Scale**

Course grades will be reported on the following scale:

|  |  |
| --- | --- |
| **Grade** | **%** |
| A | 94-100 |
| A- | 90-93 |
| B+  | 87-89 |
| B | 84-86 |
| B-  | 80-83 |
| C+ | 77-79 |
| C | 74-76 |
| C- | 70-73 |
| D+ | 68-69 |
| D | 60-67 |
| F | Less than 60 |

All course content, assignments, and grades will be posted here on D2L. It is your responsibility to keep up with all class materials through this website. You will also be required to submit your work through D2L.

**Grading**

1. Assignments (3) 30 points each
2. Quizzes (3) 10 points each
3. Final 80 points

The goal of assignments is to practice the concepts taught in class. You will have a week to complete each assignment. You are expected to do your own assignment. However, some collaboration with other students is allowed and even encouraged. The following types of collaboration are allowed:

* Discussing strategies for solving a problem
* Reviewing and testing someone else's code
* Using Python code provided by the instructor and texts

The following types of collaboration are not allowed:

* Copying someone else's Python code
* Literally telling someone what code to write

Engaging in these last two types of collaboration will be considered a violation of the university's policy on academic integrity. Violators will receive a zero for the corresponding assignment and will be reported as required by the policy.

Assignments will be accepted up to two days after the due date. 15% penalty if you submit your assignment less than a day past the due date given. Additional 15% penalty (30% total) if you submit your assignment more than a day past the due date given. Assignments submitted 2 days after the due date **will not be accepted**. There will not be any extra credit opportunities in the class.

Make sure you submit the correct version of your assignment. It is your responsibility to turn in the proper work for each assignment. Saying you turn in the wrong assignment will not be considered as an excuse.

If you make changes to an assignment that you have already submitted, you are welcome to upload the newer version to D2L provided, of course, that it is uploaded before the assignment deadline. I will always grade your submission with the most recent timestamp in D2L.

All quizzes must be completed before the due date. Missing the due date will result in a grade of zero. You cannot make up quizzes.

**GRADING FOR WINTER 2021**

Letter grades will be given this quarter. There will be no Pass/D/Fail option.

**IMPORTANT DATES**

Last day to drop the course without penalty:  **Sunday, Jan 17, 2021**

Last day to withdraw from the course:  **Sunday, Feb 21, 2021**

**OTHER COURSE POLICIES AND PROCEDURES:**

Please see the [CDM Intranet](http://my.cdm.depaul.edu/courses/syllabus.asp?course=IS-430-901&q=3&y=2010&id=333) for general information about school policies.

**Communication**

If you have questions or you are struggling with anything with the class – no matter how minor -- let me know right away. Do not wait! These classes move quickly. Just like on a project, timely communication is vital to ensure things go smoothly.

**Academic Integrity and Plagiarism**

This course will be subject to the university's academic integrity policy. Please note that while I do not object to students working side-by-side on an assignment, each student is responsible for their own work. It’s okay to ask a colleague to help you work out a bug or similar, but it is not acceptable for them to simply solve a problem for you. Similarly, it is not acceptable for two students to submit essentially an identical assignment with only cosmetic changes between the two. Each student must complete a unique assignment.

More information can be found at http://academicintegrity.depaul.edu/. If you have any questions, consult with the instructor.

**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. Incompletes are only granted when the large majority of the course work has already been completed.

**COURSE SCHEDULE AND TOPICS**

Here is a summary. Note that this can be subject to change – I will give you plenty of notice when something changes:

| **Session**  | **Topics** |
| --- | --- |
| Week 1 | Course Overview; Python variables, Strings data types and assignment statements |
| Week 2 | Data Types |
| Week 3 | Functions and control statements |
| Week 4 | Loops |
| Week 5 | Dictionaries, Tuples, and Lists |
| Week 6 | Reading and Writing Files |
| Week 7 | Intro to classes, Fetch Data, and API |
| Week 8 | GUI and Game Programming |
| Week 9 | Web Scraping |
| Week 10 | Final  |

# **Other**

Attitude: A professional and academic attitude is expected throughout this course. Measurable examples of non-academic or unprofessional attitude include but are not limited to: talking to others when the instructor is speaking, mocking another’s opinion, sleeping, working on assignments for other classes, listening to headphones, cell phones ringing, emailing, texting, or using the internet whether on a phone or computer. If any issues arise a student may be asked to leave the classroom.

Civil Discourse: DePaul University is a community that thrives on an open discourse that challenges students, both intellectually and personally, to be Socially Responsible Leaders. It is the expectation that all dialogue in this course is civil and respectful of the dignity of each student. Any instances of disrespect or hostility can jeopardize a student’s ability to be successful in the course.

Student responsibilities: Each student is responsible for their time management and for meeting the expectations in the syllabus. The instructor is not responsible for reminding students of assignment deadlines in class. In the event of an absence, it is the student's responsibility to contact the instructor regarding the absence and the topics covered in class. Students must keep up with any assigned materials for the class. Coming to the zoom meetings only will not suffice in succeeding in class. Students must keep backup copies of all submitted assignments. By itself, an illness is not a reason to eliminate late penalties. If an assignment is listed on the syllabus, you are still responsible for completing the assignment on time.