

DSC 430: Python Programming

Course Information

Title: DSC 430: Python Programming

Location: CDM 214

Contact Information

Instructor: Jonathan Gemmell

Email: jgemmell@cdm.depaul.edu

Office Hours: See website. Please schedule 24 hours in advance.

Location: CDM 837 (243 S. Wabash)

Phone: +1 (312) 362 – 1361

Preferred Contact: email

Course Overview

This course builds the skills necessary to use Python to develop larger programs and libraries. Students will learn to design, implement and debug Python functions and programs, including stochastic and object-oriented techniques. The course will cover Python data structures, and Python facilities for working with files, strings, regular expressions, databases and URLs. The course will also include an introduction to the Pandas package for data management, the NumPy package for scientific computing, and the Matplotlib package for visualization.

Course Management System

We will use DePaul University's Desire2Learn system (d2l.depaul.edu).

Course Prerequisites

CSC 401: Introduction to Programming. Students are expected to understand basic programming concepts and have experience with IDEs.

Recommended books and Software

Book: None.

Software: We will use the current Python 3 distribution and Visual Studio. They are available in all DePaul labs. Students may download and install Visual Studio with their student account. See the CDM website.

Emails

I make every attempt to reply to emails within 24 hours. Include the course number, your name, and your student ID in the title of the email. Emails should be written in a professional manner with clear and concise language.

News Widget

The primary form of communication for this class will be the news widget on the D2L. Subscribe to the widget and ensure that DePaul has your correct email.

Forums

The class forum is the preferred place to ask questions about the class. If you have questions about a quiz or lecture notes, please post them there. I read these frequently. All students should subscribe to the forums so that you receive email updates.

Attendance

Attendance is not required. However, it is expected that you will attend every class; it is the single most important action you can take in mastering the course objectives. You are responsible for all material covered, assignments delivered or received, and announcements made in class sessions that you miss. For distance learning students, this means viewing the classes in a timely manner, participate in the discussion forum, and being sure to email or call in any questions that you have.

Quizzes

The course will include 10 online quizzes (1 per week), each worth 2% of the final grade. Quizzes may be taken as many as 10 times and only the highest grade is recorded. Quizzes are taken online through the D2L. The purpose of the quizzes is not to test your knowledge. You may (and are encouraged) to work through the problems with your fellow classmates, seek out the help of tutors, ask questions or even offer potential solutions on the forums.

Assignments

The course will include 20 assignments (2 per week), each worth 4% of the final grade. Assignments must be completed independently. Each assignment must include the honor statement, "I have not given or received any unauthorized assistance on this assignment."

Late Policy

Late quizzes, receive 0 points without exception. Late assignments are penalized 1% per hour.

Final Grades

- A: 90% - 100%
- B: 80% - 90%
- C: 70% - 80%
- D: 60% - 70%
- F: less than 60%

Pluses and minuses are given for the upper and lower 3% in a letter's range. There is no A+. You may not pass the class if you do not receive a passing grade on the final exam and the final report.

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, posted under Announcements in D2L and sent via email.

Plagiarism

Students in this course should be aware of the strong sanctions that can be imposed against someone guilty of plagiarism. If proven, a charge of plagiarism could result in an automatic F in the course and possible expulsion. The strongest of sanctions will be imposed on anyone who submits as his/her own work any assignment which has been prepared by someone else. If you have any questions or doubts about what plagiarism entails or how to properly acknowledge source materials be sure to consult the instructor.

Academic Integrity

Work done for this course must adhere to the University Academic Integrity Policy, which you can review in the Student Handbook or by visiting “Academic Integrity” (academicintegrity.depaul.edu) at DePaul University.

Academic Policies

All students are required to manage their class schedules each term in accordance with the deadlines for enrolling and withdrawing as indicated in the University Academic Calendar. Information on enrollment, withdrawal, grading and incompletes can be found at:

www.cdm.depaul.edu/Current%20Students/Pages/PoliciesandProcedures.aspx

Incomplete Grades

An incomplete grade is a special, temporary grade that may be assigned by an instructor when unforeseeable circumstances prevent a student from completing course requirements by the end of the term and when otherwise the student had a record of satisfactory progress in the course. All incomplete requests must be approved by the instructor of the course and a CDM Associate Dean. Only exceptions cases will receive such approval. Information about the Incomplete Grades policy can be found at:

www.cdm.depaul.edu/Current%20Students/Pages/Grading-Policies.aspx

Writing Center

Consider contacting or visiting the Writing Center to discuss your assignments for this course or any others. You may schedule appointments (30 or 50 minutes) on an as-needed or weekly basis, scheduling up to 3 hours worth of appointments per week. Online services include Feedback-by-Email and IM conferencing (with or without a webcam). All writing center services are free.

Writing Center tutors are specially selected and trained graduate and undergraduate students who can help you at almost any stage of your writing. They will not do your work for you, but they can help you

focus and develop your ideas, review your drafts, and polish your writing. They can answer questions about grammar, mechanics, different kinds of writing styles, and documentation formats. They also can answer questions and provide feedback online, through IM/webcam chats and email. Obviously, the tutors won't necessarily be familiar with every class or subject, but they are able to provide valuable help from the perspective of an interested and careful reader as well as a serious and experienced student-writer.

Students with Disabilities

Students seeking disability-related accommodations are required to register with DePaul's Center for Students with Disabilities (CSD) enabling them to access accommodations and support services to assist with their success. There are two office locations:

- Loop Campus – Lewis Center #1420 – (312) 362-8002
- Lincoln Park Campus – Student Center #370 – (773) 325-1677

Students who register with the Center for Students with Disabilities are also invited to contact Dr. Gergory Moorhead, Director of the Center, privately to discuss how he may assist in facilitating the accommodations to be used in a course. This is best done early in the term. The conversation will remain confidential to the extent possible. Please see:

offices.depaul.edu/student-affairs/about/departments/Pages/csd.aspx

Schedule your appointments with enough time to think about and use the feedback you'll receive. Bring your assignment handout and other relevant materials to your appointments.

Student 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. Please see <https://resources.depaul.edu/teaching-commons/teaching/Pages/online-teaching-evaluations.aspx> for additional information.