**B8154: Python for MBAs**

**Fall 2022 (A-Term)**

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Office Hours: Available upon request

**Course Description**

From the ads that track us to the maps that guide us, the twenty-first century runs on code. The business world is no different. Programming has become one of the fastest-growing topics at business schools around the world. This course is an introduction to business uses of Python for MBA students.

In this course, we’ll be learning how to write Python code that automates tedious tasks, parses and analyzes large data sets, interact with APIs, and scrapes websites. This might be one of the most useful classes you ever take.

**Required Prerequisites**

Enrollment in this course requires completion of a Python qualification exam.

**Required Course Material**

* Students must have a laptop that they can bring to class – Mac or PC is fine, as long as your operating system is up to date (at least Windows 10 and Mac OS 11).
* This course does not require a textbook. (Optional Reading: *Python for MBAs*, Griffel and Guetta)
* Any required readings will be provided via Canvas.
* Slides and files will be uploaded to Canvas after each class.

**Course Roadmap/Schedule**

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| **Session** | **Topic** | **Assignments** |
| **Class 1** Thursday, Sep 8 | **Data Analysis, part 1*** Dig Case
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| **Class 2** Thursday, Sep 15 | **Data Analysis, part 2*** Dig Case
 | Assignment 1 Due night before Class 3 |
| **Class 3** Thursday, Sep 22 | **Data Analysis, part 3*** Dig Case
 | Assignment 2 Due night before Class 4 |
| **Class 4** Thursday, Sep 29 | **APIs*** Twilio Case
 | Assignment 3 Due night before Class 5 |
| **Class 5** Thursday, Oct 6 | **Web Scraping*** BuiltWith Case
 | Assignment 4 Due night before Class 6 |
| **Class 6**Thursday, Oct 13 | **Automation with Python*** Bail Fund Case
 | Final Project Due midnightWednesday, May 4 |

**Grading**

Final grades in the class will be calculated as follows:

*Participation (30%)*

* Students are expected to actively participate in class by posting solutions to challenges on a Slack group (an online messaging tool) for the course.

*Assignments (40%)*

* There will be four homework assignments due the *night before* some classes.
* Each assignment should be completed individually.
* Late assignments will be accepted with a 20% penalty until the final class. No late assignments will be accepted after the final class.

*Final Project (30%)*

* There will be a take-home final project.
* The final project must be completed individually.

**Note:** You will not be able to receive a passing grade in the course unless you have submitted the final project and at least three out of the four assignments.