Introduction to Python Programming

Spring 2017

Instructor:	Enes Kemal Ergin	**Time:**	T-T 14:30 – 16:00
Email:	eergin@na.edu	**Place:**	8th Floor Research Room

Course Page:

1. https://github.com/NAU-ACM/IntroductionToPython

Office Hours: Every day, 16:00 - 17:30 at Tutoring Center

Objectives: The purpose of this course is showing how to program using Python Language. Throughout this 8-week course we will learn version control system's logic, how to use Git and GitHub to learn how to be efficient developer, Python's built-in data types, Python's syntax, control structures, functions, modules, and classes. During the course period we will complete so many hands-on exercises together and weekly challenges. After completing this introductory Python course, you will be ready to go to next step to learn deeper concepts in Python Programming and it's packages, such as; Django or Flask for web development, pandas for Data science, Matplotlib for plotting, pygame for game development, scipy for scientific applications, numpy for huge numerical applications, and more.

At the end of the course, a successful student should be able to:

- understand the syntax and written Python code,
- comprehend and implement the most fundamental algorithms with Python,
- develop programs from basic to complex,

Prerequisites:

- Computer with Anaconda Python Distribution installed
- GitHub Account
- Internet Connection
- Enthusiasm

Tentative Course Outline:

- About Python and Setting Up the Environment
- Data and Expressions
- Control Structures
- Sequences
- Functions
- Modular Design
- Writing and Reading Files
- Dictionaries and Sets