

Introduction

2

Who Am I?

- I'm the Lecturer for this Programming Languages & Techniques course
- I'm also the Research & Education Director at Wharton Customer Analytics
- What is Wharton Customer Analytics?

 - We partner with companies to provide real-world datasets to Penn students, faculty, and academic researchers for data and analytics projects
 We teach in-person technical workshops and build online courses for undergrads and MBAs to hone their data management and technical skills

What's My Background?

- I started out as a musician ... then worked in radio broadcasting and audio production
- I started doing Flash programming ... and I developed a live web conferencing platform for Big Pharma
- I received my Masters in Computers & Information Technology from UPenn
- I worked as a programmer at the School of Design
- $\bullet \ \ \text{I started my own company BLeeK, LLC doing programming and freelance web development}$
- I worked as an application developer for Wharton Computing
- I became the Research & Education Director at WCA
- Most recently, I became a Lecturer at Penn Engineering

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4

More About Me – I Play Bass



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5

More About Me – I Like My Dog, We're Close



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OK, Enough About Me!	alm sale	
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About This Course		
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Who Is This Course For?		
Master's students who are not in the Department of Computer and Informat People who want to learn the basics of programming and have never program		
People who have programmed before but have not used that skill in a long timore than 5 years)		

u have a lot of other coursework There will be programming assignments every week – most of them are very time consuming Debugging code takes an unpredictable amount of time!
consuming
Debugging code takes an unpredictable amount of time!

10

What Will You Learn in this Course? Intro to programming using Python

- Style and conventions
- You will also learn:

 - You will also learn:

 Code testing

 Code debugging

 Code design

 Code documentation

 Computational thinking!

11

Course Topics for Python Intro to Programming/Python, & Jupyter Notebook Variables, Conditionals, & IDLE PyCharm, Tuples & Sets Unit Testing Intro to Lists, Loops • Dictionaries Functions & Modular Programming • Files Lists & Strings Data Analysis Object-Oriented Programming Course topics are subject to change!

Python	
Why begin with Python? Great first language and easy to get up and running quickly Easier to learn than Java Allows you to spend more time thinking about programming logic and algorithms, and less time thinking about code syntax	
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13

Resources I am providing these books here because they are an easy read for students who would like to supplement the lectures with additional reading Python in Easy Steps (by Mike McGrath) These books are entirely optional I will not cover exactly the same material nor will I assign readings from them