WASTC 2020 Faculty Development Weeks

Programming Essentials in Python

Dates: Fully Online June 8-12, 2020
**Times: 8–11 am and 12–3 pm Monday – Friday [extra tutoring session 3 – 4 pm]**

Workshop Overview:
Python is a general-purpose programming language used to build just about anything. Python is key for backend web development, data analysis, artificial intelligence and scientific computing, all of which are key for pursuing IT careers.

With PCAP: Programming Essentials in Python you learn to design, write, debug, and run programs encoded in the Python language. No prior programming knowledge is required. The course begins with the very basics guiding you step by step until you become adept at solving more complex problems.

By the end of the course, students will be able to:

- Develop a working knowledge for how computers operate and how computer programs are executed.
- Evolve critical thinking and problem-solving skills using an algorithmic approach.
- Learn about the programmer's role in the software development process.
- Translate real-world issues into computer-solvable problems.
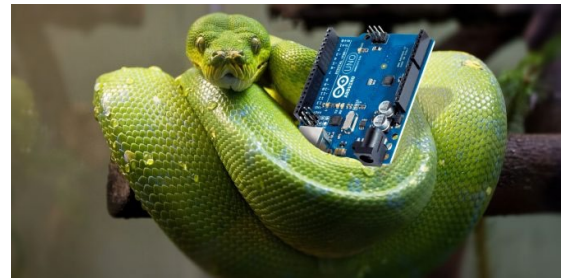
 There are no prerequisites for this course

Instructor: Matthew Cloud As an undergraduate at Texas A & M, Matthew created a company, Cloud Technologies, building systems ranging from Positron Emission Tomography calibration to logistics systems for the 2nd layer of the US network in the late 90's, to turning in 2008 towards understanding the network of the human brain as a biomedical engineer (MS) to help those with Stroke, TBI, pain, PTSD or ADHD recover. For four years prior to his current role, he was Director of a DOL grant defining the IT Pathways over the School of IT at the State level of Ivy Tech CC of Indiana with over 22,000 IT students and 150 faculty. Currently, as the IT Department Chair for the Ivy Tech Lake County campus he also serves as State Vice-Chair for CS, IN K12 IT and CS DOE Committees and Governors Cybersecurity Council, Global Advisor for CISCO Academy and NetAcad 4 Diverse Abilities. He also took ballroom dancing in college.

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