

IT/CYBER SECURITY MENTORING

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Mentor:

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Location:

Marymount University, 1000 N. Glebe Road, Arlington Virginia Date/Time Saturday 11:00am-1:00pm
Friday 6pm-8pm

Overview:

Cyber Security and Information Processing disciplines are becoming more and more depended on each other. Professionals that acquire skills in both fields are in demand. These free mentoring sessions are designed to provide students with some of those skills. Our objectives: First, help students in their studies, second, provide information to those who may want to acquire a degree in one or both disciplines. ISSA-NOVA appreciates Marymount University for making this possible by allowing us to use their lab space for this outreach.

Required Text:

Not Applicable. Course Materials, Tools, and LAB equipment are available. A computer for practice is strongly recommended. Teaching lectures via PowerPoint presentations, mentor’s notes, and coding examples.

Program Schedule:

Year 2018

MONTH	SUBJECT	PRACTICE/LAB
August	Python Basics – Review	Strings, Tuples, Dictionaries, loops
September	Python Programming/Crypto Theory	Python V3/Cryptography
October	Python Programming/Crypto Theory	Python V3/Cryptography
November	Python Programming/Crypto Theory	Python V3/Cryptography
December	Review Cryptography/Other Topics	Student requests

Topics will repeat in 2019 and additional programming languages will be introduced. (waiting on student requests. HTML/CSS/Javascript is a suggestion)

Homework Policy:

Not Applicable – Students will work on examples on your own time.

Year 2018 Review:

Topics that were presented last semester:

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- Overview of the history of Information processing.
- Microsoft Access: Table design, creating forms, creating reports. SQL basics
- Microsoft Excel: Overview
- Python programming language overview
- Python basic building blocks – statements, strings, lists, dictionaries
- Python Module: Regular expressions – scraping the WEB
- Python Module: CSV – Comma Separated Values
- Python Module: Tkinter - basic GUI design
- Cryptography: Basic cryptographic methods – Caesar's Cipher using Python
- Steganography: Basic principle