

Course Number and name: ET 463 Python

Credits & Contact Hours: 3cr. (2+3p) Each week has two lectures of 70 min. Total semester contact hours are approximately 45 hr.

Instructor's name: Michael Morrell

Textbook: Using Python for Solving Problems

Specific Course Information:

Course Catalog Description - Prerequisite(s): E T 462.

General Course Goals: The main goals and objectives of this class are:

- Use of Python for Software Automation (scripting)
- Debugging
- Documentation
- Problem Solving for Engineering

Related ABET Objectives and Outcomes: The department of Engineering Technology and Survey Engineering ECET option has an objective of having its graduates possess the following skills and knowledge.

a. an appropriate mastery of the knowledge, techniques, skills and modern tools of their disciplines; including:

1. Digital circuit analysis and design techniques, analysis of analog and digital electronics, architecture and applications of microcomputer systems, local area networks, **and the building, testing, operation and maintenance of electronic, instrumentation**, communications, control, and/or computer systems (both hardware and software). **Also ABET 2.b, 2.c, 2.d, 2.f**

Course topics and lecture hours devoted to each topic:

TOPICS	HRS.
• Accessing Linux and transferring files over a network	3
• Installation of Python	3
• Using VI editing	9
• Using python on web sites	9
• Python for intrusion detection	9
• Using python for text analysis	4
• Imaging software in python	2
• Tests and Quizzes, Review, Problem Solvng and Examples	8

Equipment utilized by the students include (but is not limited to): The classroom computers and the school main web server.

Prepared by: Michael Morrell

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