

Course Number and name: ET 462 Linux

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: G. Boyle, "*Linux+ Guid to Administration*. John Eckert

Specific Course Information:

Course Catalog Description - Remote Access Operating Systems and Advanced Scripting Concepts relating to operating systems applications and interfacing with an introduction to systems administration. Scripting using Python and Unix. Design and control of Web servers using CGI programming. Prerequisite(s): E T 362.

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

- Total familiarizations with the directory structure of Linux
- Complete familiarization with the Linux command Set.
- Ability to configure an Apache Webserver
- How to setup up basic security in Linux

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
• System Users and Passwords	3
• Using VI editing	9
• Building web sites	9
• Installing a WAMP setup	9
• The Domain Name System	4
• Miscellaneous topics	2
• Tests and Quizzes, Review, Problem Solving 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

Date: 11/17/2010