Knight Foundation School of Computing and Information Sciences

Course Title: Windows System Administration   **Date:**

Course Number: CNT 4603

Number of Credits: 3

Designation: System Administration elective for BS IT
Catalog Description: **CNT 4603   3 Credits**
Course Name: System Administration and Maintenance
Course Description: An examination of operating systems and applications installation, configuration, and maintenance, including client-server services, server administration and management, and user/group management.
Pre-requisite: CGS 3767

Subject Area Coordinator:
Kianoush Gholamiboroujeni

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Textbook(s) and/or other required material(s):
- *Programming in Python 3: A Complete Introduction to the Python Language, 2e,* Mark Summerfield, 2010, Pearson Education, ISBN-13: 978-0-321-68056-3.
- The textbook will be supplemented with online lecture notes which will come from a variety of resources. Any software that is required for the course will be available for downloading via the Internet.

Reference(s): None
Course learning outcomes/expected performance criteria:
The course goals are to enable students to:
- Be able to perform basic system administration tasks on Windows Server 2008-12 based server systems. (Critical)
- Be able to define, install, and maintain system security policies under Server 2008-12. (Relevant)
- Be able to write simple scripts geared toward system administration activities in Windows PowerShell and Python. (Important)
- Be able to perform feasibility studies to determine the cost effectiveness of IT decisions in the area of system components to support virtualization environments. (Critical)
- Be familiar with Active Directory under Windows Server 2008-12. (Relevant)
- Design and analyze Active Directory infrastructures. (Relevant)
- Be familiar with user administration tasks commonly performed by system administrators. (Important)

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CNT 4603
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Topics:
- IT virtualization
- Administering Server 2008
- User administration
- PowerShell scripting
- Python scripting

Class Schedule: **Laboratory Schedule:**

Number of sessions per week   3   Number of sessions per week   0

Duration of each session   50 min   Duration of each session   0 min

Contribution of course to meeting requirements of Criterion 5 Curriculum (credit hours):

Math & Science Topics: 0   *Computing Topics (F): 3   General Education: 0

*Computing Topics – Mark with (F) or (A) for Fundamental or Advanced

Student Outcomes in Criterion 3 addressed by the course:

Check if the course is used in <u>assessment</u> of the program's student outcomes (√)

Description of the Program's Student Outcomes addressed by the course	
Outcome	**Description**
2	Graduates shall demonstrate their ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.
3	Graduates will demonstrate their ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs and budget, by applying best practices in software development processes, methods, and tools.
4	Graduates will demonstrate their ability to use current techniques, skills, and tools necessary for computing practices.

Assessment Plan for the Course & how Data in the Course are used to assess Program Outcomes

Student and Instructor Course Outcome Surveys are administered at the conclusion of each offering, and are evaluated as described in the School's Assessment Plan:
https://abet.cs.fiu.edu/csassessment/