



**-Jackson College
PowerShell Scripting
CNS235.I50.WN2021**



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General Information

Pre-Requisite: CNS121 or CNS123

Course Description

Students will develop the knowledge and skills to utilize Microsoft PowerShell to automate common administrative tasks on a Microsoft network. This course assumes no prior -programming skills.

Required Text Materials:

PowerShell in Depth, Second Edition
By: Don Jones, Jeffery Hicks, Richard Siddaway
Publisher: Manning Publications
Pub. Date: October 31, 2014
Print ISBN-13: 978-1-61729-218-7

Learn Windows PowerShell in a Month of Lunches, Third Edition
By: Don Jones
Publisher: Manning Publications
Copyright 2017
Print ISBN-13: 978-1-61729-416-7

Required Equipment:

Portable USB powered hard drive (500 GB or bigger)

Methods to achieve objectives: In this course you will analyze network traffic from various packet captures using Wireshark. Discussion, lecture, team problem solving, homework, online videos, and especially hands-on lab projects will be used to achieve this objective.

-Course Competencies:

- Demonstrate the use of basic Windows PowerShell cmdlets
- Understand and demonstrate the use of PowerShell Help

- • Build PowerShell commands to manage individual Microsoft systems, both locally and remotely
- • Build PowerShell commands to manage multiple Microsoft systems, both locally and remotely
- • Create a test lab of Windows 10 and Microsoft server virtual machines to manage Active Directory remotely
- • Create PowerShell scripts to automate various tasks
- • Create or modify PowerShell scripts to match your environment

Cell Phones and Pagers: You are requested to make sure that any cell phones or pagers you bring to class are turned to the “vibrate” mode or turned off entirely.

Center for Student Success: Tutors (plus additional services for academic success) can be accessed by calling 796-8415 or by stopping by the Center for Student Success. Students requiring special assistance (including those affected by the Americans with Disabilities Act) should contact the Center for Student Success. This is the first step in acquiring the appropriate accommodation to facilitate your learning.

COURSE INFORMATION

Virtual Office Hours:

Monday thru Thursday 10:00 AM - 12:00 PM
 Additional hours by appointment

Class Meeting: Online

Attendance: Login to your CNS128 JetNet course shell each week to verify your attendance. Failure to login during that week will be reported as “Absent, no excuse”. More than two absences may affect your grade.

Academic Honesty: Be careful not to plagiarize. Plagiarism is defined in The American Heritage Dictionary as “...using another’s ideas as one’s own...” All assignments related to this class are to be your own work. The consequences of academic dishonesty include failure for the assignment and/or failure in the course overall.

Homework: Homework will consist primarily of three components:

- Readings for concepts
- Build a virtual machine test lab to create a Windows Active Directory.
- Review any course videos posted in JetNet

Teamwork: Collaboration and sharing are important skills needed in today's workplace. Seize any opportunity to help your fellow students.

Hands-on labs: You will create a test lab of various Microsoft operating systems to run PowerShell cmdlets and scripts.

Examinations: There will be a hands-on demonstration of your PowerShell project to the class. If you have an emergency and will miss the exam date, contact the instructor immediately

Participation: Your involvement in class discussions, participation with your team members during the hands-on labs and consistent attendance will be reflected in your hands-on lab score.

GRADING POLICY

Requirements:

PowerShell Final Project.....1000

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Grading Scale:

Your grade will be based on a final project (script) built using PowerShell which you will demonstrate to the class.

Note: This syllabus is not a contract: it is a plan for the course. Each course and each group of students is unique. We may do more or less work than is outlined above. Total points in the course will be altered to reflect the dynamics of our class.