BAKER COLLEGE
STUDENT LEARNING OUTCOMES

ITS3410A PowerShell Programming

3 Semester Hours

Student Learning Outcomes & Enabling Objectives

1. Test and utilize system shells.
    a. Demonstarte knowledge on how to run a command shell.
    b. Navigate a file system at the command line.
    c. Develop a custom shell environment.
    d. Execute a script.
2. Summarize operating system command languages.
    a. Construct scripts that are secure from unauthorized use.
    b. Assemble non-interactive scripts for automated system maintenance tasks.
    c. Assemble automated scripts used for system administration tasks.
    d. Practice output formatting using different methods.
    e. Differentiate logical and comparison operators.
3. Demonstrate basic programming concepts.
    a. Demonstrate the use of an Integrated Development Environment (IDE) to code scripts.
    b. Demonstrate string processing techniques.
    c. Implement code scripts that perform system administrative tasks.
    d. Explain how to logically group code for repeated use.
    e. Describe debugging techniques for scripts.
    f. Explain how using objects enhances scripting.

Big Ideas and Essential Questions

Big Ideas

- Scripting
- Command shell
- Administration
- Automation

Essential Questions

1. Why is scripting beneficial?

2. What is the role of the command line in modern computing, even in light of graphical-based technologies?
3. How does automated system administration benefit an administrator?
4. What is the value of writing a script when a task can be done manually?
5. How does an administrator assure scripts are safe and secure?

These SLOs are approved for experiential credit.

Effective: Fall 2020