

SOUTHEAST COMMUNITY COLLEGE
ADVANCED TECHNOLOGIES & SKILLED TRADES DIVISION
Computer Information Technology Program
Revision Date: October 2025

I. CATALOG DESCRIPTION

Course Number: INFO2555
Course Title: PowerShell Fundamentals
Prerequisite(s): INFO1215, INFO1448
Catalog Description: This course provides an overview of PowerShell and common cmdlets. Topics include but are not limited to working with providers and using the pipeline, remote control, module support, Inout, Outout, and variables. Students use basic scripting techniques including parameterized scripts.
Credit Hours: 2
Class Hours: 30
Lab Hours: 0
Total Contact Hours: 30

II. COURSE OBJECTIVES: *Course will:*

- A. Introduce students to basic PowerShell cmdlets and built-in help.
- B. Describe the use of object using PowerShell.
- C. Examine the use of remote management using PowerShell.
- D. Introduce Input, Output, and variables
- E. Allow students to develop PowerShell scripts to aid in system administration.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

- A. Student Learning Outcomes: *Student will be able to:*
 - 1. Describe how to configure the PowerShell Console.
 - 2. Access the built-in help for any of the PowerShell cmdlets
 - 3. Demonstrate the use PowerShell interactively.
 - 4. Compare the use of variables, arrays and hash tables.
 - 5. Practice the use of PowerShell Pipeline.
 - 6. Remotely connect to other machines and run cmdlets
 - 7. Analyze PowerShell scripts using loops and functions.
 - 8. Identify a properly constructed PowerShell script.
- B. General Education Learning Outcomes (GELOs)
 - 1. GELO #3: Critical Thinking & Problem Solving
 - 2. Outcome 2: Synthesize information to arrive at reasoned solutions to problems.

IV. CONTENT/TOPICAL OUTLINE

- A. PowerShell Console
- B. Interactive PowerShell
- C. Variables
- D. Arrays and hashtables
- E. PowerShell Pipeline
- F. Using objects
- G. Conditions
- H. Loops
- I. Functions

- J.** Scripts
- K.** Finding and avoiding errors

V. INSTRUCTIONAL MATERIALS

- A.** Required Text(s): As determined by the instructor of this course

VI. METHODS OF PRESENTATION/INSTRUCTION

- A.** Methods of presentation typically include a combination of the following:
 - 1.** Group discussions
 - 2.** Engaged learning activities
 - 3.** Hands-On labs

VII. METHODS OF EVALUATION

- A.** Methods of evaluation, although determined by the individual instructor, traditionally includes a combination of the following:
 - 1.** Assignments
 - 2.** Tests