Washtenaw Community College Comprehensive Report

CIS 161 Introduction to PowerShell
Effective Term: Spring/Summer 2019

Course Cover

Division: Business and Computer Technologies
Department: Computer Instruction
Discipline: Computer Information Systems
Course Number: 161
Org Number: 13410
Full Course Title: Introduction to PowerShell
Transcript Title: Introduction to PowerShell
Is Consultation with other department(s) required: No
Publish in the Following: College Catalog , Time Schedule , Web Page
Reason for Submission: Course Change
Change Information:
Consultation with all departments affected by this course is required.
Rationale: Change to requisites
Proposed Start Semester: Winter 2019
Course Description: In this course, students are introduced to Windows PowerShell. Students develop basic scripts and learn commands for managing the Windows environment.

Course Credit Hours

Variable hours: No
Credits: 4
Lecture Hours: Instructor: 60 **Student:** 60
Lab: Instructor: 0 **Student:** 0
Clinical: Instructor: 0 **Student:** 0

Total Contact Hours: Instructor: 60 **Student:** 60
Repeatable for Credit: NO
Grading Methods: Letter Grades
Audit
Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

Level 3

Requisites

Level II Prerequisite
CNT 211
or
Level II Prerequisite
CNT 223
or

Level II Prerequisite
CNT 224

General Education

General Education Area 7 - Computer and Information Literacy
Assoc in Arts - Comp Lit
Assoc in Applied Sci - Comp Lit
Assoc in Science - Comp Lit

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Use cmdlets, filters, selection, and piping to manage the Windows environment.
   Assessment 1
   Assessment Tool: Multiple choice, short answer questions and skill tasks on a departmental exam
   Assessment Date: Winter 2021
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All
   Number students to be assessed: All
   How the assessment will be scored: Departmentally-developed rubric
   Standard of success to be used for this assessment: 70% of the students will score 70% or higher
   Who will score and analyze the data: Department faculty

2. Identify appropriate use of simple object-oriented concepts.
   Assessment 1
   Assessment Tool: Multiple choice and short answer questions on a departmental exam
   Assessment Date: Winter 2021
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All
   Number students to be assessed: All
   How the assessment will be scored: Departmentally-developed rubric
   Standard of success to be used for this assessment: 70% of the students will score 70% or higher
   Who will score and analyze the data: Department faculty

3. Use Windows Management Instrumentation (WMI) to control the environment.
   Assessment 1
   Assessment Tool: Multiple choice short answer questions and skill tasks on a departmental exam
   Assessment Date: Winter 2021
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All
   Number students to be assessed: All
   How the assessment will be scored: Departmentally-developed rubric
   Standard of success to be used for this assessment: 70% of the students will score 70% or higher
   Who will score and analyze the data: Department faculty

4. Create basic PowerShell scripts.
   Assessment 1

Assessment Tool: Multiple choice, short answer questions and skill tasks on a departmental exam
Assessment Date: Winter 2021
Assessment Cycle: Every Three Years
Course section(s)/other population: All
Number students to be assessed: All
How the assessment will be scored: Departmentally-developed rubric
Standard of success to be used for this assessment: 70% of the students will score 70% or higher
Who will score and analyze the data: Department faculty

Course Objectives

1. Use cmdlets to manage files and folders.
2. Use cmdlets to manage process and services.
3. Use filters and functions to act on selected objects.
4. Write basic scripts that use the properties and methods of objects.
5. Develop pipelines using different cmdlets.
6. Use .Net objects to interact with the Windows environment.
7. Use WMI to control the local or remote server environment.
8. Write scripts that use string objects.
9. Write scripts that use date-time objects.
10. Write scripts that use various forms of iteration structures including FOR and FOREACH.
11. Write scripts that use the different forms of the IF statement.
12. Write scripts that use cmdlets to updated Active Directory.

New Resources for Course

Course Textbooks/Resources

Textbooks
Don Jones. *Learn Windows PowerShell in a Month of Lunches*, 1 ed. Manning, 2011, ISBN: 9781617290213.
Manuals
Periodicals
Software

Equipment/Facilities

Level III classroom
Computer workstations/lab

Reviewer	Action	Date
Faculty Preparer:		
Michael Galea	*Faculty Preparer*	*Oct 27, 2018*
Department Chair/Area Director:		
Philip Geyer	*Recommend Approval*	*Oct 29, 2018*
Dean:		
Eva Samulski	*Recommend Approval*	*Nov 01, 2018*
Curriculum Committee Chair:		
Lisa Veasey	*Recommend Approval*	*Nov 26, 2018*
Assessment Committee Chair:		
Shawn Deron	*Recommend Approval*	*Nov 28, 2018*
Vice President for Instruction:		
Kimberly Hurns	*Approve*	*Dec 04, 2018*