

Washtenaw Community College Comprehensive Report

CIS 161 Introduction to PowerShell

Effective Term: Fall 2012

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: New Course

Change Information:

Rationale: Windows PowerShell is the de facto standard for managing the Windows environment. Students graduating from our networking programs require this course to enhance employability.

Proposed Start Semester: Fall 2012

Course Description: This course introduces students 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 4

Requisites

Prerequisite

CNT 211 minimum grade "C"

General Education

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 and short answer questions on a departmental exam.

Assessment Date: Fall 2015

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All students

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 70% of the students who take the exam will score better than 70%.

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: Fall 2015

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All students

How the assessment will be scored: departmentally-developed rubric

Standard of success to be used for this assessment: 70% of the students who take the exam will score better than 70%.

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 and short answer questions on a departmental exam.

Assessment Date: Fall 2015

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All students

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 70% of the students who take the exam will score better than 70%.

Who will score and analyze the data: Department faculty

4. Create basic PowerShell scripts.

Assessment 1

Assessment Tool: Multiple choice and short answer questions on a departmental exam.

Assessment Date: Fall 2015

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All students

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 70% of the students who take the exam will score better than 70%.

Who will score and analyze the data: Department faculty

Course Objectives

1. Use cmdlets to manage files and folders.

Matched Outcomes

2. Use cmdlets to manage process and services.

Matched Outcomes

3. Use filters and selection with piping to act on select objects.
Matched Outcomes
4. Use properties and methods of objects.
Matched Outcomes
5. Use .Net objects to interact with the WIndows environment.
Matched Outcomes
6. Use WMI to control the local or remote server environment.
Matched Outcomes
7. Use iteration and conditional logic to write basic scripts.
Matched Outcomes

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

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer: <i>Michael Galea</i>	<i>Faculty Preparer</i>	<i>Jan 04, 2012</i>
Department Chair/Area Director: <i>Clem. Hasselbach</i>	<i>Recommend Approval</i>	<i>Jan 07, 2012</i>
Dean: <i>Rosemary Wilson</i>	<i>Recommend Approval</i>	<i>Jan 12, 2012</i>
Vice President for Instruction: <i>Stuart Blacklaw</i>	<i>Approve</i>	<i>Feb 20, 2012</i>