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| **Email:** rizkz@linnbenton.edu | **Class Room:** MKH-103 |
| **Office:** MKH-110 | **Class Day/Time:** MW at 1:00 pm |
| **Phone:** 541-917-4273 | **Office Hours:** M/TU/W/TH @ noon  |

**Course Description and Objectives**:

This course presents an overview of the Microsoft Windows Operating System (OS), with emphasis on the OS design, configuration, operations, and applications. This course will also cover PowerShell scripting and includes researching, documenting, and presenting a key OS function.

 **Prerequisites:**

CS125, Introduction to Software Applications, and CIS151, Networking Essentials. Both with a minimum "C" grade.

**Required Course Materials:**

1. ??
2. USB thumb drive with a minimum capacity of 4GB

**Learner Outcomes:**

1. Describe the basic functions of an operating system
2. Differentiate between different approaches to operating system design (at high level)
3. Experiment with and consider configuration of an operating system in a variety of ways
4. Write basic scripts used in monitoring and controlling operating system’s behavior
5. Categorize common security risks and the role that an operating system plays in maintaining the security of information.

**Grades:**

Grades will be determined according to the following schedule:

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| Participation: 10%Labs (drop lowest): 40%Discussion Forums: 10%Midterm Exam: 15%Class Project 25%  | A: 90 – 100%B: 80 – 89%C: 70 – 79%D: 60 – 69%F: < 60%P: = 70% or aboveNP: < 70% |

A grade of “C” or higher is considered passing.

**Academic Honesty:**

Helping, or being helped by, another student during an exam will be considered a breach of academic honesty and is grounds for receiving a zero grade and/or failing the course among other possible remedies.

**Classroom Conduct:**

1. Please silence cell phones and do not use during class.
2. Please do not bring other electronic devices to class including laptops, iPods, iPads, etc.
3. No food or drink in the classroom.
4. Please respect the learning environment of others and keep distractions to a minimum.

**LBCC Center for Accessibility Resources:**

Students who may need accommodations due to documented disabilities, or who have medical information which the instructor should know, or who need special arrangements in an emergency, should speak with the instructor during the first week of class. If you believe you may need accommodations, but are not yet registered with CFAR, please go to <http://linnbenton.edu/cfar> for steps on how to apply for services or call 541-917-4789.

**LBCC Comprehensive Statement of Nondiscrimination:**

LBCC prohibits unlawful discrimination based on race, color, religion, ethnicity, use of native language, national origin, sex, sexual orientation, marital status, disability, veteran status, age, or any other status protected under applicable federal, state, or local laws.

**LBCC Statement of Inclusion:**

The LBCC community is enriched by diversity. Each individual has worth and makes contributions to create that diversity at the college. Everyone has the right to think, learn, and work together in an environment of respect, tolerance, and goodwill (related to Board Policy #1015).

**Course Schedule**

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| Week | Activity | Due |
| Week-1Sept 25 | * Welcome, introductions, scope & set clear expectations
* Week-1 scope = Overview of computers, Operating Systems (OSs), and the evolution of the Windows OS.
* Week-1 assignment
 | Oct 1@ 11:55 pm |
| Week-2Oct 2 | * Week-2 scope =Virtualization, Hyper-V, install and configure Windows 10 Pro, and network 101 review.
* Week-2 assignment
* Class discussion-1 (Virtualization)
 | Oct 8@ 11:55 pm |
| Week-3Oct 9 | * Week-3 scope = Processes, scheduling, & deadlocks.
* Week-3 assignment
 | Oct 15@ 11:55 pm |
| Week-4Oct 16 | * Week-4 scope = Volatile/temporary memory management (RAM) and non-volatile/permanent storage.
* Week-4 assignment
* Class discussion-2 (Windows Memory Paging)
* NOTE: Project Teams formed.
 | Oct 22@ 11:55 pm |
| Week-5Oct 23 | * Week-5 scope = Windows users and groups, NTFS security, and local group policy.
* Week-5 assignment
 | Oct 29@ 11:55 pm |
| Week-6Oct 30 | * Week-6 scope = Midterm exam, Command Prompt, and Windows PowerShell.
* Midterm Exam (must be in class)
* Week-6 Assignment
* Class discussion-3 (PowerShell Command)
 | Nov 5@ 11:55 pm |
| Week-7Nov 6 | * Week-7 scope = Windows PowerShell and scripting.
* Week-7 assignment
 | Nov 12@ 11:55 pm |
| Week-8Nov 13 | * Week-8 scope = Computer security and Task Scheduler.
* Week-8 assignment
* Class discussion-4 (Why?)
 | Nov 19@ 11:55 pm |
| Week-9Nov 20 | \*\*\* Thursday & Friday Nov 23 & 24 = Thanksgiving Holiday \*\*\** Week-9 scope = Windows deployment options.
* Week-9 assessment
* Class discussion-5 (How?)
 | Nov 26@ 11:55 pm |
| Week-10Nov 27 | * Week-10 scope = Clustering and project work).
* Week-10 assignment
* Upload project artifacts (Include PowerPoint slides)
* Only one team member to submit!
 | Dec 3@ 11:55 pm |
| Week-11Dec 4 | * Team Presentations - on Mon, Dec 4 @ 1:00 pm (must be in class)
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