|  |  |
| --- | --- |
| **Email:** rizkz@linnbenton.edu | **Class Room:** MKH-105 |
| **Office:** MKH-110 | **Class Day/Time:** TR at 3:00 pm |
| **Phone:** 541-917-4273 | **Office Hours:** TTH @ 2:00 pm |

**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:**

CS120, Digital Literacy, and CIS151, Networking Essentials. Both with a minimum "C" grade.

**Required Course Materials:**

1. 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 Table:**

|  |  |
| --- | --- |
| **Quizzes/Assignments/Exams** | **Weight** |
| Labs (drop lowest)  | 40% |
| Discussion Forums | 10% |
| Midterm Exam  | 15% |
| Class Project . | 25% |
| Participation (2% points for each day missed). | 10% |
| TOTAL | 100% |
| **Grades:****IMPORTANT:** A grade of “C” or higher is considered passing. | A: 90-100%B: 80-89%C: 70-79%D: 60-69%F: < 60%P: >= 70%NP: < 70% |

**Instructor and Student Responsibilities:**

|  |  |
| --- | --- |
| **Instructor Responsibilities** | **Student Responsibilities** |
| I commit to starting all classes on time. | You agree to attend all classes and to comply with college code of conduct. |
| I commit to showing up to class prepared. | You agree to actively participate in class discussions and exercises. |
| I commit to balancing class time between lecture and hands-on exercises. | You agree to spend an average of 4 hours per week on readings and assignments outside of class (see Moodle for details). |
| I commit to holding published office hours. | You agree to complete all readings and course assignments on time (due on Sunday night). |
| I commit to responding to your email within 24 hours (no voice mail please). | You agree to collaborate professionally with fellow students on the class project. |
| I commit to grading assignments within 3 days (after due date). |  |
| If I'm unable to come to a class, I commit to doing my best to find a substitute instructor while keeping you up-to-date. |  |

**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, gender, gender identity, marital status, disability, veteran status, age, or any other status protected under applicable federal, state, or local laws. For further information see Board Policy P1015 in our [Board Policies and Administrative Rules](http://linnbenton.edu/42145BA0-3DCC-11E3-AA36782BCB47BBE7). Title II, IX, & Section 504: Scott Rolen, CC-108, 541-917-4425; Lynne Cox, T-107B, 541-917-4806, LBCC, Albany, Oregon. To report: [linnbenton-advocate.symplicity.com/public report](http://linnbenton-advocate.symplicity.com/public_report).

**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**

|  |  |  |
| --- | --- | --- |
| Week | Activity | Due |
| Week-1Sept 30 | * 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 6@ 11:55 pm |
| Week-2Oct 7 | * Week-2 scope =Virtualization, Hyper-V, install and configure Windows 10 Pro, and network 101 review.
* Week-2 assignment
* Class discussion-1 (Virtualization)
 | Oct 13@ 11:55 pm |
| Week-3Oct 14 | * Week-3 scope = Processes, scheduling, & deadlocks.
* Week-3 assignment
 | Oct 20@ 11:55 pm |
| Week-4Oct 21 | * 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 27@ 11:55 pm |
| Week-5Oct 28 | * Week-5 scope = Windows users and groups, NTFS security, and local group policy.
* Week-5 assignment
 | Nov 3@ 11:55 pm |
| Week-6Nov 4 | * 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 10@ 11:55 pm |
| Week-7Nov 11 | \*\*\* Monday, Nov 11 is Veterans Day = Holiday \*\*\** Week-7 scope = Windows PowerShell and scripting.
* Week-7 assignment
 | Nov 17@ 11:55 pm |
| Week-8Nov 18 | * Week-8 scope = Computer security and Task Scheduler.
* Week-8 assignment
* Class discussion-4 (Why?)
 | Nov 24@ 11:55 pm |
| Week-9Nov 25 | \*\*\* Thursday & Friday Nov 28 & 29 = Thanksgiving Holiday \*\*\** Week-9 scope = Windows deployment options.
* Week-9 assessment
* Class discussion-5 (How?)
 | Dec 1@ 11:55 pm |
| Week-10Dec 2 | * Week-10 scope = Clustering and project work).
* Week-10 assignment
* Upload project artifacts (Include PowerPoint slides)
* Only one team member to submit!
 | Dec 8@ 11:55 pm |
| Week-11Dec 9 | * Team Presentations - on Tues, Dec 10 @ 4:30 pm (must be in class). Upload the slides by Sun, Dec 8 @ 11:55 pm.

NOTE: Will negotiate an earlier time. If okay for all, we can change. |  |

|  |
| --- |
|  |
|  |