

Sisi Virasak
CS140M – Operating Systems: Microsoft
Fall 2020 Syllabus

Email: virasas@linnbenton.edu	Class Room: INTERNET https://linnbenton.zoom.us/j/95507908198 Meeting ID: 955 0790 8198
Office: MKH-108	Class Day/Time: TR at 3:00-5:20 PM
Phone: 541-917-4617	Office Hours: F 9 AM-11 AM https://linnbenton.zoom.us/j/92614392755 Meeting ID: 926 1439 2755

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.

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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%

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 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.

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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](#). 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.

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).

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Course Schedule

Week	Activity	Due
Week-1 Sept 29	<ul style="list-style-type: none"> ➤ 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 4 @ 11:55 pm
Week-2 Oct 6	<ul style="list-style-type: none"> ➤ Week-2 scope =Virtualization, Hyper-V, install and configure Windows 10 Pro, and network 101 review. ➤ Week-2 assignment ➤ Class discussion-1 (Virtualization) 	Oct 11 @ 11:55 pm
Week-3 Oct 13	<ul style="list-style-type: none"> ➤ Week-3 scope = Processes, scheduling, & deadlocks. ➤ Week-3 assignment 	Oct 18 @ 11:55 pm
Week-4 Oct 20	<ul style="list-style-type: none"> ➤ 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 25 @ 11:55 pm
Week-5 Oct 27	<ul style="list-style-type: none"> ➤ Week-5 scope = Windows users and groups, NTFS security, and local group policy. ➤ Week-5 assignment 	Nov 1 @ 11:55 pm
Week-6 Nov 3	<ul style="list-style-type: none"> ➤ 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 8 @ 11:55 pm
Week-7 Nov 10	<p style="text-align: center;">*** Wednesday, Nov 11 is Veterans Day = Holiday NO CLASS***</p> <ul style="list-style-type: none"> ➤ Week-7 scope = Windows PowerShell and scripting. ➤ Week-7 assignment 	Nov 15 @ 11:55 pm
Week-8 Nov 17	<ul style="list-style-type: none"> ➤ Week-8 scope = Computer security and Task Scheduler. ➤ Week-8 assignment ➤ Class discussion-4 (Why?) 	Nov 22 @ 11:55 pm
Week-9	<p style="text-align: center;">*** Thursday & Friday Nov 28 & 29 = Thanksgiving Holiday ***</p>	Nov 29

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Nov 24	<ul style="list-style-type: none"> ➤ Week-9 scope = Windows deployment options. ➤ Week-9 assessment ➤ Class discussion-5 (How?) 	@ 11:55 pm
Week-10 Dec 1	<ul style="list-style-type: none"> ➤ Week-10 scope = Clustering and project work). ➤ Week-10 assignment ➤ Upload project artifacts (Include PowerPoint slides) <ul style="list-style-type: none"> ➤ Only one team member to submit! 	Dec 6 @ 11:55 pm
Week-11 Dec 8	<ul style="list-style-type: none"> ➤ Team Presentations - on Tues, Dec 8 @ 4:30 pm (must be in class). Upload the slides by Sun, Dec 6 @ 11:55 pm. <p>NOTE: Will negotiate an earlier time. If okay for all, we can change.</p>	