

## Clackamas Community College

### Online Course/Outline Submission System

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#### Section #1 General Course Information

**Department:** Business & Computer Science: Computer Science

**Submitter**

First Name: Rich

Last Name: Albers

Phone: 3166

Email: richa

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**Course Prefix and Number:** CS - 228

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**# Credits:** 4

**Contact hours**

Lecture (# of hours): 33

Lec/lab (# of hours):

Lab (# of hours): 33

Total course hours: 66

For each credit, the student will be expected to spend, on average, 3 hours per week in combination of in-class and out-of-class activity.

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**Course Title:** Computer OS Maintenance & Repair

**Course Description:**

An in-depth course in operating system maintenance and troubleshooting. Covers configuration, maintenance, and troubleshooting of desktop and mobile operating systems, the fundamentals of cloud computing, and client network configuration and troubleshooting. This course, in conjunction with CS-227, covers the topics on the CompTIA A+ certification exam.

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**Type of Course:** Lower Division Collegiate

Is this class challengeable?

Yes

Can this course be repeated for credit in a degree?

**No**

Is general education certification being sought at this time?

**No**

Does this course map to any general education outcome(s)?

**No**

Is this course part of an AAS or related certificate of completion?

**Yes**

**Name of degree(s) and/or certificate(s):** Computer Science AAS & Certificate

Are there prerequisites to this course?

**Yes**

**Pre-reqs:** Pass CS-227 or instructor consent

**Have you consulted with the appropriate chair if the pre-req is in another program?**

**No**

Are there corequisites to this course?

**No**

Are there any requirements or recommendations for students taken this course?

**No**

Are there similar courses existing in other programs or disciplines at CCC?

**No**

Will this class use library resources?

**No**

Is there any other potential impact on another department?

**No**

Does this course belong on the Related Instruction list?

**No**

**GRADING METHOD:**

A-F or Pass/No Pass

**Audit: Yes**

When do you plan to offer this course?

✓ **Winter**

Is this course equivalent to another?

If yes, they must have the same description and outcomes.

**No**

Will this course appear in the college catalog?

**Yes**

Will this course appear in the schedule?

**Yes**

**Student Learning Outcomes:**

Upon successful completion of this course, students should be able to:

1. manage Windows users and associated security;
2. use various Windows utilities to configure and optimize the system,
3. use command line interface and tools effectively,
4. troubleshoot boot, system, and application problems,
5. explain the benefits of Virtualization and different ways it's implemented,
6. explain the basics of ethernet, TCP/IP, and wireless networking,
7. configure a client for networking and use remote administration networking utilities;
8. explain different printing technologies and configure printing from Windows;
9. configure, use, and troubleshoot mobile devices.

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***This course does not include assessable General Education outcomes.***

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**Major Topic Outline:**

1. User and groups: Creating, managing, and assigning permissions
2. Maintaining OSs: Patches, Registry, Applications, Backups, and Security
3. Using Command Line: Shells, Directory Navigation, command format and usage
4. Boot process: Configuring and Troubleshooting
5. Virtualization: Terms and Usage
6. Networking: Ethernet, Wireless, TCP/IP Basics, Utilities, and Troubleshooting
7. Mobile Devices: Usage, Configuration, Troubleshooting, Securing
8. Printers: Types, Process, Configuration, and Troubleshooting

**Does the content of this class relate to job skills in any of the following areas:**

- |                                      |           |
|--------------------------------------|-----------|
| 1. Increased energy efficiency       | <b>No</b> |
| 2. Produce renewable energy          | <b>No</b> |
| 3. Prevent environmental degradation | <b>No</b> |
| 4. Clean up natural environment      | <b>No</b> |
| 5. Supports green services           | <b>No</b> |

Percent of course: 0%

### **Section #2 Course Transferability**

Concern over students taking many courses that do not have a high transfer value has led to increasing attention to the transferability of LDC courses. The state currently requires us to certify that at least one OUS school will accept a new LDC course in transfer. Faculty should communicate with colleagues at one or more OUS schools to ascertain how the course will transfer by answering these questions.

1. Is there an equivalent lower division course at the University?
2. Will a department accept the course for its major or minor requirements?
3. Will the course be accepted as part of the University's distribution requirements?

If a course transfers as an elective only, it may still be accepted or approved as an LDC course, depending on the nature of the course, though it will likely not be eligible for Gen Ed status.

Which OUS schools will the course transfer to? (Check all that apply)

Identify comparable course(s) at OUS school(s)

How does it transfer? (Check all that apply)

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First term to be offered:

**Next available term after approval**

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