

Clackamas Community College
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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

Course Prefix and Number:CS - 228

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.

Course Title:Computer OS Maintenance & Repair

Course Description:

An in-depth course in Windows operating system maintenance and repair. Covers installation, configuration, maintenance, and troubleshooting of Windows. Includes troubleshooting the boot process, application and system issues, and using various backup and restore utilities and processes. This course, conjunction with CS-227, covers the topics on the CompTIA A+ certification exam.

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. discuss the different Windows client operating systems currently in use,
2. explain and implement different methods of OS installation,
3. describe and configure the boot process and associated files,
4. use the Windows command line to repair boot and/or system problems,
5. use various Windows utilities to configure and optimize the system,
6. explain the different backup types and use Windows's tools to backup and restore the system,
7. configure and use Windows remote administration networking utilities,
8. explain basic computer security and configure various Windows's security features,
9. troubleshoot boot, system, and application problems;
10. configure and use portable/tablet computers,
11. discuss printer types and OS printer configuration,
12. communicate professionally with customers and coworkers.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Safety.
2. Windows overview.
 - a. Versions.
 - b. OS folders.
 - c. User interface.
3. OS installation.
 - a. Installation types.
 - b. Methods.
 - c. Process.
4. Boot process.
 - a. Boot files.
 - b. Boot configuration tools.
5. Windows configuration and optimization.

- a. Control panel applets.
- b. System and administrative tools.
- 6. Windows maintenance.
 - a. Patches and updates.
 - b. Registry.
 - c. Backups and restores.
 - d. Using restore points and driver rollback.
- 7. Command line.
 - a. Basic commands and usage.
 - b. Troubleshooting and repair commands.
 - c. Writing scripts.
- 8. Printers.
 - a. Laser, inkjet, dot matrix, thermal.
- 9. Networking.
 - a. Windows network component configuration.
 - b. Remote administration utilities.
- 10. Computer security.
 - a. Threats and their mitigation.
- 11. Interpersonal communication.
- 12. Troubleshooting.
 - a. Boot problems.
 - b. Applications problems.
 - c. System issues.

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

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

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)

:

First term to be offered:

Next available term after approval

:
