

**Clackamas Community College**  
Online Course/Outline Submission System

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**Section #1 General Course Information**

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

**Submitter**

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**Course Prefix and Number:**CS - 288W

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**# Credits:**4

**Contact hours**

Lecture (# of hours): 22

Lec/lab (# of hours): 44

Lab (# of hours):

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:**Windows Network Administration

**Course Description:**

Practices network administration and design using Microsoft Windows Server and other operating systems. Topics include TCP/IP protocols and services such as IPv4 and IPv6 addressing, routing, filtering, network protection, and remote access.

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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?

**No**

Are there prerequisites to this course?

**Yes**

**Pre-reqs:**Pass CS-279W

**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. explain the function of required TCP/IP services, including DHCP, DNS, and routing;
2. configure and implement TCP/IP services provided by Microsoft Windows Server,
3. integrate Microsoft Windows Server TCP/IP services with other server platforms,
4. describe best practices in implementing TCP/IP services on any service platform,
5. install TCP/IP service safeguards to implement with network security policies.

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

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**Major Topic Outline:**

1. TCP/IP architecture review.
  - a. IPv4 addressing and routing.
  - b. IPv6 addressing and routing.
  - c. Integration of IPv4 and IPv6.
2. DHCP.
  - a. Autoconfiguration.
  - b. DHCPv4.
  - c. DHCPv6.
  - d. Server cooperation.
3. DNS.
  - a. Types of queries.
  - b. Basic records.
  - c. Service records.
  - d. Domain transfers.
  - e. Purchasing a domain.
4. Network Security.
  - a. Network access protection.
  - b. Firewalls and unified threat management.
5. Remote access.
  - a. Virtual private networks.

**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 **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)

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First term to be offered:

**Next available term after approval**

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