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## CN 301 Network Technology & Fundamentals

### Challenge Exam – Study Guide

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#### **Instructions:**

This exam is designed to test your knowledge and understanding of the concepts outlined in the Regis CN 301 course module and your ability to apply these concepts to the real world.

The Challenge Exam also has some tips on how to complete the exam. Remember that you have five days to complete this exam.

1. The exam requires you to design a simple network (high-level view) and list requirements for a WAN connection including topology and design.
2. Describe in a short paper the design and why you used the components that you included.
3. Include a bibliography of sources in the APA format.
  - Understand the APA format. See Regis Library Resources
  - Understand the following:
    - a. Basic theory of data Communications
    - b. Network topologies and fundamentals
    - c. Current standards in networking
    - d. Protocols
    - e. Emerging technologies
    - f. Storage Devices
    - g. Network and Internet security
    - h. Components of Computer Hardware

#### **Text:**

Morley, D. (2010). *Understanding Computers, Today and Tomorrow (12th update ed.)*. Boston: Course Technology.

#### **Sources:**

<http://webtutorials.com>

Wikipedia & How Stuff Works

Note: The above two sources are good for general information but may include biased information (written by a vendor)