

## CSC 415/515 WEEK 3 STUDY GUIDE

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Week 3 Quiz will be on Wednesday.

### 1. CONCEPTS

Definition of a networked application, network protocol; protocol suites: the application layer, the transport layer, and the network layer.

IP addresses and TCP ports, URLs, query strings.

Web applications. The HTTP protocol. HTTP request and HTTP responses, format of requests and responses, HTTP headers and their purposes, be able to give some examples of HTTP headers, or to explain the purpose of a specific header (restricted to those we covered in class). Accept headers and MIME types.

HTTP request methods GET, HEAD, PUT, POST, TRACE, and DELETE.

The request and response entities.

The 5 classes of HTTP response status codes and reason phrases. Be prepared to give examples and explanations of common status codes, such as OK, CREATED, NOT FOUND, etc.

Web caches, proxy servers, web servers. The CGI protocol. How the CGI protocol works: communication between CGI application and the web server.

Know how to write a simple CGI application.

Comparing and contrasting CGI applications and Java Servlets (servlets will be covered on Monday.)