

CSCI 571 – Web Technologies

Syllabus

Course Description

This course focuses on the phenomenon known as the World Wide Web (WWW or Web). Its focus is to present many of the core technologies that the Web is based upon. These core technologies include:

- HTML and CSS (Hypertext Markup Language and Cascading Style Sheets)
- HTTP (HyperText Transfer Protocol)
- Web servers, their configuration and performance properties
- Client-side Programming Using JavaScript
- Ajax (Asynchronous JavaScript & XML) and JSON (JavaScript Object Notation)
- Server-side Programming Using PHP and JavaScript

In addition, the course will also cover the following subsidiary topics:

- Web Services (REST)
- Web Security
- Web Technologies for Mobile Phones (Android and iOS)
- Responsive Website Design
- Cloud Computing (Amazon Web Services and Google Cloud Platform)
- AngularJS and Node.js
- Serverless Applications
- AWS Lambda and Google Cloud Functions

Five Homework Assignments

Two Exams

- Exam #1 around week 7.
- Exam #2 at the end of the course.

Grading

Homeworks	40%
Exam 1	30%
Exam 2	30%

