**PreReq:** CS4873 Networks (NOTE: Net sub. committee wants to make this one as CS3873, then the prereq will be cs3873 networks)

**Title:** Web design, web programming, web technologies, web engineering

**Objectives:** Learn basic web technologies and practice with some of these technologies to understand how the things are working in the Web.

**Topics:**

**Applications**
- Internet Applications (ftp, email, www, chat, p2p, …)
- Distributed applications (JavaRMI, CORBA, .NET)
- Business Applications (E-commerce, …)
- Others: web search, guest book,

**Design and Layout**
- Design principles, practice, software tools
  - (Dreamweaver, Flash, Macromedia Shockwave, IPIX Photobubbles)

**Markup Languages**
- HTML, XHTML, DHTML
- CSS (cascading style sheets)
- XML, XSLT (Semantic Web Services)

**Programming Languages and Technologies**
- JavaScript & AJAX
- VBScript
- PHP
- C#
- Visual Basic .Net
- Perl
- Java
- ActiveX controls
- ASP and ASP.NET
- CGI
- Coldfusion

**Web Servers and Server Products**
- Apache and IIS (Internet Information Service) configuration
- FrontPage Server Extension
- SharePoint Team
- Databases
  - Access
  - SQL Server
  - MySQL
  - Oracle

**Security**
- Secure socket SSL (e.g., https)
- Authentication
- Authorization
- Encryption/decryption
Performance
  Traffic analysis
  Quality measurements

Other Issues
  Domain names, hosting, legal issues, privacy

Organizations
  WWW Consortium
  Ecma International
  IETF