NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY
ITE 130 – INTRODUCTION TO INTERNET SERVICES (3 CR.)

Course Description

Provides students with a working knowledge of Internet terminology and services including e-mail, WWW browsing, search engines, ftp, file compression, and other services using a variety of software packages. Provides instruction for basic web page construction. Lecture 3 hours per week.

General Course Purpose

This course provides a foundation sufficient for a student to securely access and effectively use Internet resources, and to develop and deploy Web pages on the Internet.

Course Prerequisites/Corequisites

Working knowledge of MS Windows

Course Objectives

Upon completing the course, the student will be able to:

a) Effectively use basic Internet services to communicate, transfer resources, and obtain information via the Internet and World Wide Web
b) Change security settings on email and browser packages; deploy, update, and use software firewalls and virus scan software; and perform secure exchanges with Web sites
c) Design and deploy a basic web page

Major Topics to be Included

a) Internet & WWW history
b) Connecting to the Internet (ISP)
c) Email
d) File Transfer Protocol (FTP)
e) Search
f) Information Resources (WWW)
g) Security Tools and Settings
h) Social Media
i) List Servers
j) Basic HTML
k) Basic Web page design & deployment

Student Learning Outcomes

Internet Concepts

a) Describe the history and evolution of the Internet infrastructure and the World Wide Web hypertext software environment
b) Be able to describe the basic differences between the Internet and the World Wide Web

Connecting to the Internet

a) Be able to evaluate and select an Internet Service Provider
b) Be able to connect to the Internet via stationary devices such as modems, routers, and other

available hardware
c) Be able to connect to the Internet via a mobile device

Email
d) Be able to set up your account with email client software.
a) Be able to send, receive, and store messages
b) Be able to apply basic email (n)etiquette
c) Be able to describe spam, content filtering software

FTP
a) Be able to describe the functions of File Transfer Protocol client software
b) Be able to use the process for transferring files between nodes on the Internet

Search
a) Demonstrate functional knowledge of search engine software, including browsers, crawlers, bots, and meta search engines
b) Describe search strategies for maximizing efficiency and effectiveness of search process
c) Be able to apply Boolean logic in advanced searches
d) Be able to describe Directories, Clearing Houses, Resource Lists, and Guides and whenc vto use them in lieu of search engines

Information Resources (WWW)
a) Be able to apply methods for identification and acquisition of WWW resources
b) Be able to evaluate with standardize criteria the usefulness of Web sites
c) Be able to identify methods for verification of WWW content

Security Tools and Settings
a) Be able to describe the differences between worms, viruses, and Trojan software
b) Be able to identify the differences between static malware and polymorphic malware
c) Be able to select, install, apply signature updates to, and use malware scanning software
d) Be able to change security settings on Internet Browsers and on email packages
e) Be able to evaluate and select Web site filtering software
f) Be able to describe the functions digital signatures and encryption of email using the public key infrastructure and security certificates available to consumers

Social Media
a) Demonstrate functional knowledge of Chat client software
b) Be able to describe basic chat (n)etiquette
c) Be able to compare the functions of social Web sites such as Twitter, Facebook, and LinkedIn
d) Be able to subscribe to, use, and unsubscribe from RSS feeds

List Servers
a) Be able to describe the functions of list server software such as Listserv and Majordomo
b) Be able to describe the processes for finding, subscribing to, unsubscribing from, and moderating email lists

Basic HTML
a) Be able to summarize Hyper Text Markup Language concepts
b) Be able to create a Web page using HTML 5.0 syntax and a basic text editor (e.g., Notepad)
c) Be able to explain the primary differences between XHTML and HTML 5.0

Basic web page design and development
c) Describe basic functions of Web page design software
d) Be able to list the fundamentals of proper Web design
e) Be able to use the process for deploying basic Web site content

Required Time Allocation per Topic

In order to standardize the core topics of ITE 130 so that a course taught at one campus is equivalent to the same course taught at another campus, the following student contact hours per topic are required. Each syllabus should be created to adhere as closely as possible to these allocations. Of course, the topics cannot be followed sequentially. Many topics are taught best as an integrated whole, often revisiting the topic several times, each time at a higher level. There are normally 45 student-contact-hours per semester for a four credit course. (This includes 15 weeks of instruction and does not include the final exam week so 15* 3 = 45 hours. Sections of the course that are given in alternative formats from the standard 16 week section still meet for the same number of contact hours.) The final exam time is not included in the time table. The category, Other Optional Content, leaves ample time for an instructor to tailor the course to special needs or resources.

Topic	Time in Hours	Percentages
Internet & WWW History	3	6.67%
Connecting to the Internet (ISP)	1.5	3.33%
Email	3	6.67%
File Transfer Protocol (FTP)	1	2.22%
Search	3	6.67%
Information Resources (WWW)	3	6.67%
Security Tools & Settings	4	8.89%
Social Media	3	6.67%
List Servers	2	4.44%
Basic HTML	9	20.00%
Basic Web page design & deployment	5	11.10%
Testing to include quizzes, tests, and exams (not including final exam)	2.5	5.56%
Other Optional Content	5	11.11%
Total	45	100%