

COSC 130-01 - FUNDAMENTALS OF THE INTERNET FALL 2006

INSTRUCTOR:	Lorraine Sauchin (Scigliano)
OFFICE/PHONE:	403B College Hall / (412)396-5636
OFFICE HOURS:	MON noon – 4:00pm; TUES/THURS 3:00-5:00 Other hours available but please make an appointment
CLASS MEETS:	TUES/THURS 9:25 – 10:05
LOCATION:	444 COLH
E-MAIL/WEB:	sauchin@duq.edu www.blackboard.duq.edu/
REQUIRED TEXT:	Internet Effectively: A Beginner's Guide to the World Wide Web, Adams, T and Scollard, S. Addison-Wesley, Copyright 2006. ISBN 0-321-30429-2
RESERVES:	Also on reserve you will find: The Web Wizard's Guide to HTML. Lehnert, W. Addison-Wesley, Copyright 2002. ISBN 0-201-74172-5 (<i>not required</i>)
SUPPLIES:	You will also need to buy a USB "flash" device for lab exercises. Due to variations, not all "flash" devices are guaranteed to work in our labs, so please test yours.

COURSE DESCRIPTION:

This course is intended to provide a **technical overview** of the Internet and the World Wide Web. This course is for non-Computer Science majors who are interested in learning more about the inner workings of the Internet and the World Wide Web.

All students have used the Internet and know the basics of Web searching, e-mail, instant messaging, etc. You may even know FTP and some Web page design. However, what is not apparent is how this technology works... how the data communications channels, computer systems, software and standards work together to provide what has become a truly global resource. You will learn the theory and technical concepts behind the Internet and the World Wide Web, not just how to use Internet services. We will also cover the history of the Internet, potential future developments, as well as major threats such as viruses and congestion. Finally, we will discuss ethical and security issues such as downloading/copyright concerns, identity theft, privacy, encryption and firewalls.

This course presumes that the student already has experience with the Internet and Web, and understands the basics of computer hardware and Windows. (Pre-requisites are COSC030 or COSC100.) Some programming experience would be beneficial, but most of all students should not be afraid to tackle the technical workings of computers. Substantial class participation and hands-on lab work will be required.

COURSE OUTCOMES:

By the end of this course you will be able to:

- Demonstrate a mastery of Internet Technical Terminology
- Recognize the basic hardware and software components of the Internet and how they work
- Identify and describe the major Internet protocols (TCP/IP, IMAP, POP3, HTTP, MIME, IRC, RSS, etc.)
- Distinguish between the Internet and the World Wide Web
- Create and publish multiple Web pages including images, hyperlinks, and special effects
- Understand the limitations of the Internet and diagnose basic Internet problems including viruses and scams
- Use Internet and Web-based services at an advanced level.

EVALUATION METHODS:

There will be two tests and one final exam in this course. In addition, there will be lab assignments involving Web page design, search engines, security/privacy and other topics. Lab work is an important part of this course and points will be awarded accordingly. Extra credit points may be gained for class participation.

GRADING:

Assignments (2 web projects@15%; 2 assignments@5%)	40% of grade
Exams (3 @ 20%)	60% of grade
Class Participation	extra credit up to 1%

Assignments must be completed by the due date to receive full credit. Late assignments will be accepted up to two weeks after the original due date, but will be penalized according to the degree of lateness. **No assignments will be accepted after the last class date.** Assignments are individual exercises (unless otherwise indicated by your

instructor); neither plagiarism (copying another's files or assignment) nor "group" work will be accepted for credit. *Assignment details and grades will be published on the Blackboard course site, so check the course web page often.*

Grading scale is:

A	A-	B+	B	B-	C+	C	D	F
92-100%	90-91.9%	88-89.9%	82-87.9%	80-81.9%	78-79.9%	70-77.9%	60-69.9%	< 60%

COURSE POLICIES:

- Class Attendance:** Class attendance is strongly encouraged. Each student is responsible for all information covered during the lecture, including announcements, assignments, and handouts. **Missing class does not extend the due date for your assignments; you are responsible for completing assignments whether or not you are in class. If you miss class, check Blackboard for the assignment before the next class.**
- Lab Time/Assistant:** Lab time will be scheduled for approximately 40% of the class time. You are expected to come prepared to the lab, including bringing storage devices, passwords, and your book. You may also use the Alcoa Lab (room 439, across from elevators) for lab work outside of class. Alcoa Lab hours are posted.
- Exams:** Exam dates are pre-scheduled and make up exams will not be given. (Extenuating circumstances will be given consideration, see me.) Exams will be short answer, multiple choice, and fill in the blank. Exams are closed book, independent exercises.
- Asking for Help:** It is very important to ask for help if you find yourself getting lost or behind in your assignments. Ask questions during class, see me during office hours, or send me an e-mail if you need any extra assistance. Lab assistants may be of help with web pages and publishing. Please do not hesitate to ask!
- Honor Policy/Plagiarism:** All assignments must be the product of your own creative work. Plagiarism (copying another's' work) will result in a minimum penalty of failing grade for the assignment, or may include a failing grade in the course, depending upon the severity of the offense. Additional University sanctions will also apply. **Be clear that copying another's files, making changes, and submitting them as your own work is plagiarism.**
- Cell Phones/e-Mail/Instant Messaging:** To minimize disruption, please switch off cell phones and pagers during class time. Access to e-Mail and Instant Messaging is not permitted during class time.

STATEMENT OF ACCESSIBILITY:

Students with documented disabilities are entitled to reasonable accommodations if needed. If you need accommodations, please contact the Office of Freshmen Development and Special Services located in Room 309 in the Duquesne Union (412/396-6657) as soon as possible. Accommodations will not be granted retrospectively

TENTATIVE COURSE OUTLINE: (DATES SUBJECT TO CHANGE UPON NOTIFICATION BY INSTRUCTOR)

Dates	Topic	Pre-Reading
8/29 – 8/31	Introduction to the Lab, ISPs, Connections, Browsers	Chapter 1
9/5 – 9/7	IP addressing, Domain Names, Internet History, Internet2	Chapter 2
9/12 – 9/14	Plug-Ins and On Line Researching, search engine watch	Chapter 3, web readings
9/19 – 9/21	Email basics: POP vs. IMAP, MIME, SPAM, web bugs	Chapter 4
9/26 – 9/28	review for exam; Exam 1 on 9/28	<i>Exam 1: chapters 1-4</i>
10/3 – 10/5	e-Business; Introduction to HTML lab	Chapter 5, Chapter 6
10/10 – 10/12	HTML labwork ; web page design, publishing a web page	Chapter 8, Hand-out
10/17 – 10/19	Images: image file types and image effects	Chapter 9
10/24 – 10/26	Internet Services: Listservs, Newsgroups, Blogs, RSS	Chapter 10
10/27	Web page 1 due by Friday midnight*	
10/31 – 11/2	IM, Chat, ICQ, IRC	Chapter 11
11/7 – 11/9	Labwork: multi-page linking, CSS, Javascript, multimedia	Chapter 7, 10
11/14 – 11/16	review for exam; Exam 2 on 11/16	<i>Exam 2: chapters 5, 9, 10, 11</i>
11/21 – 11/23	<i>Thanksgiving Break</i>	
11/28 – 11/30	Viruses, Internet Hoaxes	Web readings
12/1	Web project 2 due by Friday midnight*	
12/5 – 12/7	Internet Security: Course Wrap-Up and review for final	Chapter 14
12/12	<i>Duquesne Friday (no class)</i>	
Final Exam	Friday December 15 1:15	Cumulative

- **Assignment due dates are approximate and subject to change.**
- **Be sure to check the Blackboard course site for all Assignment Details and Due Dates!**