INSC 210 - Foundations of Information Technology
Summer 2020
University of Tennessee, Knoxville

Meeting Time and Place: Asynchronous, Pre-Recorded Video
Course Credit Hours: 3 Credit Hours

Contact Information
Instructor: Rob Anderson
Office hours: Tuesday and Thursday 11 am to 1 pm via Zoom
Office location: 451 Communications Bldg. 1345 Circle Park Drive, Floor one, Office 104 (inside office 100)
SIS Office: 865.974.2148
SIS Fax: 865.974.4667
Email address: rander39@vols.utk.edu
Instructor web page: http://www.robandersonweb.com/
Course Resource Site: http://volweb.utk.edu/~rander39/
Course Description/Information:
This is a required course for Information Science majors. It provides the student with an overview of the field and its typical applications. The student learns key terminology and components of computer hardware, software, operating systems, systems development methods, management information systems, and using application software and the Internet. Explores computing history, software, web technologies, basic network security, information security, information assurance and future trends in information technology. Labs are modularly designed to meet specific program needs such as basic UNIX commands and fundamental understanding of programming processes and productivity software skills.

Value Proposition:
This course will equip students with the skills and knowledge needed to learn coding. The course will also develop a broad understanding of information technologies.

Student Learning Outcomes/Objectives:
After successful completion of this course, you will be able to:
• Learn the evolution of computing and types of computers;
• Demonstrate an understanding of five building blocks of information systems;
• Explain fundamental concepts of information technology;
• Understand features related to Unix and server-side and client-side programming; and
• Practice web development using HTML, CSS, XML, and JavaScript.

Programmatic Outcomes/Department Goals:
The student can assess and implement information technologies, systems, sources and services that serve users effectively and efficiently.

Course Communications:
• The course instructor is required to communicate with students through UTK email address.
• To ensure quick response, start your message subject line with INSC 210. I will reply to your email as soon as I can.
• This course is offered in a virtual mode using Canvas. The delivery of the course content will include lectures, videos, discussions, live demonstrations, and hands-on training activities. All lecture slides will be posted on Canvas.
• Submit assignments on Canvas. Do not email them to the instructor.
• For technical issues, contact the OIT HelpDesk via phone (865) 974-9900 or online at http://help.utk.edu/.

How to Be Successful in This Course:
• Be prepared for all classes
• Be respectful of others
• Actively contribute to the learning activities in class
• Abide by the UT Honor Code
Required Equipment:
- You must have adequate computing skills, including but not limited to use of word processing, Web browsers, e-mail, listservs, and Canvas software. You must learn how to submit your assignments using Canvas. The Office of Information Technology (OIT) provides training classes in using varied technologies for students at no charge (advance registration is required).
- You need to have a high-speed Internet connection to watch the pre-recorded class videos.
- You must obtain a UT email account. In addition, you must have the PowerPoint Reader, or the regular PowerPoint software installed on your computer in order to download the lecture notes from Canvas.

Texts/Resources/Materials:

May 28
- Ch. 1: Introducing Today’s Technologies: Computers, Devices, and the Web
- Ch. 2: Connecting and Communicating Online: The Internet, Websites, and Media
- Ch. 3: Computers and Mobile Devices: Evaluating Options for Home and Work

June 1
- Ch. 10: Communicating Digital Content: Wired and Wireless Networks and Devices
- Ch. 5: DIGITAL SECURITY, ETHICS, AND PRIVACY: Threats, Issues, and Defenses

June 8
- Ch11: Building Solutions: Database, System, and Application Development Tools

June 22
✓ https://en.wikipedia.org/wiki/Linux
✓ https://www.w3schools.com/
- XML, XML Introduction, Tree, Syntax, Elements, Attributes, XML DDT

June 29
✓ https://www.w3schools.com/
- HTML: Elements, Attributes, Headings, Paragraphs, Links, Images, Lists, Blocks, Tables, Styles, Formatting, Quotations, Comments, Colors, Comments, Frames, Forms
July 6

- [✓](https://www.w3schools.com/) https://www.w3schools.com/
  - CSS: Internal vs External CSS, Colors, Backgrounds, Margins, Padding, Height, Weight, Box model, Outline, Text, Font, Icons, Links, Lists, Tables, Float, Website layout

Class Schedule:

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Topic</th>
<th>Deliverables</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>May 28</td>
<td>Course Overview/ Introduce Yourself</td>
<td>Discussion Post</td>
</tr>
<tr>
<td>2</td>
<td>June 1</td>
<td>Introduction to Computers Communications Networks Brief History of the Internet and WWW Internet Technologies</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>June 8</td>
<td>IP Addresses Domains and URLs Hosting and Filenames Database Management Systems / SQL Information Systems</td>
<td>Assignment 1 Due</td>
</tr>
<tr>
<td>4</td>
<td>June 15</td>
<td>Programming languages and paradigms Server-side vs. Client-side programming UNIX LINUX</td>
<td></td>
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<tr>
<td>5</td>
<td>June 22</td>
<td>XML Domains, URLs Hosting Basic HTML Metadata</td>
<td>Assignment 2 Due</td>
</tr>
<tr>
<td>6</td>
<td>June 29</td>
<td>Div and Span Semantic Elements Displaying Text and White Space HTML Entities and Hyperlinks Lists and Tables Misc Tags and DIV and SPAN Attributes</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>July 6</td>
<td>CSS Basics CSS Placement CSS Stack Order HTML Colors Contrast Fonts</td>
<td>Assignment 3 Due</td>
</tr>
<tr>
<td>8</td>
<td>July 13</td>
<td>Footers &amp; Copyright Webpage Layout Headers Branding and Logos</td>
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<tr>
<td></td>
<td>Position, Z-Index and Display</td>
<td></td>
<td>Assignment 4 Due</td>
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<tr>
<td>9</td>
<td>July 20</td>
<td>Image Styling</td>
<td>Transitions Transforms</td>
</tr>
<tr>
<td>10</td>
<td>July 27</td>
<td>Buttons Dropdown Menus Keyframes Animations</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Aug 2</td>
<td></td>
<td></td>
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</tbody>
</table>

**Grade Distribution**

<table>
<thead>
<tr>
<th>Activities &amp; Deliverables</th>
<th>Points</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignments (5) (10% * 5)</td>
<td>50</td>
<td>50%</td>
</tr>
<tr>
<td>Final exam</td>
<td>40</td>
<td>40%</td>
</tr>
<tr>
<td>Attendance</td>
<td>10</td>
<td>10%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

**Evaluation:**

Semester grades will be assigned according to the following scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>94-100%</td>
</tr>
<tr>
<td>A-</td>
<td>88-93.99%</td>
</tr>
<tr>
<td>B+</td>
<td>85-87.99%</td>
</tr>
<tr>
<td>B</td>
<td>82-84.99%</td>
</tr>
<tr>
<td>B-</td>
<td>78-81.99%</td>
</tr>
<tr>
<td>C+</td>
<td>75-77.99%</td>
</tr>
<tr>
<td>C</td>
<td>72-74.99%</td>
</tr>
<tr>
<td>C-</td>
<td>68-71.99%</td>
</tr>
<tr>
<td>D</td>
<td>58-67.99%</td>
</tr>
<tr>
<td>F</td>
<td>Less than 58%</td>
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</tbody>
</table>
Late assignment policy:
- Assignments should be submitted to the “assignments” area on Canvas and are due (officially) at 11:59 p.m. EST on the due date listed on the syllabus.
- **Ten percent of Total Grade will be deducted** for every 24-hour period the deliverable is not turned in.
- In case of emergency, please contact the instructor before the due date to avoid losing points for the late submission.
- There will be no makeup exam if you miss the final exam, unless you contact me before the due date, in case of emergency.

Academic Integrity:
“An essential feature of the University of Tennessee, Knoxville is a commitment to maintaining an atmosphere of intellectual integrity and academic honesty. As a student of the university, I pledge that I will neither knowingly give nor receive any inappropriate assistance in academic work, thus affirming my own personal commitment to honor and integrity.”

Plagiarism:
Plagiarism in any of its several forms is intolerable, and attention to matters of documentation in all written work is expected and required. Inadvertence, alleged lack of understanding, or avowed ignorance of the various types of plagiarism are not acceptable excuses.

Specific examples of plagiarism are:
1. Copying without proper documentation (quotation marks and a citation) written or spoken words, phrases, or sentences from any source;
2. Summarizing without proper documentation (usually a citation) ideas from another source (unless such information is recognized as common knowledge);
3. Borrowing facts, statistics, graphs, pictorial representations, or phrases without acknowledging the source (unless such information is recognized as common knowledge);
4. Collaborating on a graded assignment without the instructor’s approval;
5. Submitting work, either in whole or in part, created by a professional service and used without attribution (e.g., paper, speech, bibliography, or photograph).

Students who may be unsure of the nature of plagiarism should consult the instructor or a guide for writing research reports. (Additional resources are available at [http://www.lib.utk.edu/instruction/plagiarism](http://www.lib.utk.edu/instruction/plagiarism).)

Infractions of academic integrity are penalized according to the severity of the infraction but may include a course grade of "F."

University Civility Statement:
Civility is genuine respect and regard for others: politeness, consideration, tact, good manners, graciousness, cordiality, affability, amiability and courteousness. Civility enhances academic freedom and integrity, and is a prerequisite to the free exchange of ideas and knowledge in the learning community. Community members affect each other’s well-being and have a shared interest in creating and sustaining an environment where all community members and their points of view are valued and respected. Affirming the value of each member of the university community, the campus asks that all its members adhere to the principles of civility and community adopted by the campus: http://civility.utk.edu/.

Disability Services:
“Any student who feels s/he may need an accommodation based on the impact of a disability should contact Student Disability Services in Dunford Hall, at 865-974-6087, or by video relay at, 865-622-6566, to coordinate reasonable academic accommodations.

Your Role in Improving Teaching and Learning Through Course Assessment:
At UT, it is our collective responsibility to improve the state of teaching and learning. During the semester, you may be requested to assess aspects of this course either during class or at the completion of the class. You are encouraged to respond to these various forms of assessment as a means of continuing to improve the quality of the UT learning experience.

Key Campus Resources for Students:
- Center for Career Development (Career counseling and resources; HIRE-A-VOL job search system)
- Course Catalogs (Listing of academic programs, courses, and policies)
- Hilltopics (Campus and academic policies, procedures and standards of conduct)
- OIT HelpDesk (865) 974-9900
- Schedule of Classes/Timetable
- Student Health Center (visit the site for a list of services)
- Student Success Center (Academic support resources)
- Undergraduate Academic Advising (Advising resources, course requirements, and major guides)
- University Libraries (Access to library resources, databases, course reserves, and services)

Course Evaluation
You will be invited to evaluate the course at the end of the term. Please participate in this valuable process. I also invite your comments throughout the course and read all comments, suggestions, and recommendations.

Disclaimer
The instructor reserves the right to revise, alter or amend this syllabus as necessary. Students will be notified in writing / email of any such changes. [Optional section/language]