

Fant ut ganske fort at dette faget var for enkelt, og gjorde en avtale med professoren om å gjøre individuelle oppgaver istedet for det som er listet opp her. Mye PHP og javascript programmering med ajax etc.

ISQS 3346

Internet Programming

Course Syllabus Spring 2015 January 14 - March 4

Instructor: Dr. Terri D. Giddens
Office: Rawls College of Business E317
Office Hours: In the office on MWF 1:00- 2:00 and by appointment
In class from 9:00-1:00 on MWF
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CATALOG DESCRIPTION

3346. Internet Programming (3:3:0). Prerequisite: ISQS 2340. Internet programming using PHP, Python, .NET, Ruby, and/or any other advanced web application techniques of interest to the industry.

TEXTS AND MATERIALS

Laptop in class.

No required book. All resources will be found on the Internet.

COURSE OBJECTIVES

ISQS 3346 - This course is designed to provide broad exposure to internet programming concepts as they relate to business use of the Internet.

Upon completion of the course, the student will:

- Understand key technologies associated with client and server side programming of Internet applications. including CGI, HTML, Cascading Stylesheets, vbscript, javascript, jquery,, ajax, Graphics,

Web development software (Expression Web), Windows Forms/ Click Once deployment, ASP.NET , cookies, sessions, XML.

- Understand programming basics: variable declaration and scope, control structures, defining functions, passing parameters by reference and value, string manipulation, data conversion
- Understand the differences between Event Driven vs. Procedural vs. Object Oriented programming.
- Understand using databases in web development
- Understand .NET web development technologies and gain experience using .NET.

COURSE CONTENT

1. Programming Principles

Using Variables: declaring variables, initializing variables, type casting, variable scope

Control Structures: for loops, while loops, if statements, case statements

Writing Functions/Methods: passing parameters and using the return value

Arrays / Array Processing with for loops

2. Programming in an Integrated Development Environment

Programming Basics with Visual Studio Windows Forms Application

C# syntax

Working with an Integrated Development Environment

(Projects/Solutions, editing, compiling)

Debugging, setting break points and watches

Windows Application Programming Interface (API)

Event driven programming / using basic Windows controls and events

Click Once Deployment / Web deployment of a Windows Forms

Application

3. Understanding the Common Gateway Interface (CGI)

Client Requests and Server Responses, Cookies, Sessions, Headers

Browser requirements, Server setup requirements

Overview of Client side and Server side technologies

4. Client side technologies

HTML, javascript, vbscript, Cascading Style Sheets, Dynamic HTML

5. Server Side Technology: ASP

Creating HTML forms, passing QueryString variables
 GET vs. POST, writing ASP server side application to process
 QueryString variables using REQUEST and RESPONSE

6. Server Side Technology: ASP.net

Creating a database driven web application using Microsoft SQL data
 sources and data bound controls,
 cookies (setting/ clearing), sessions, advertisement rotators, Master Pages

7. Server Side Technology: Web services, ajax

Creating a simple web service, calling a web service from a Windows
 Form application and an ASP.net application

COURSE HANDOUTS

A	<p>Assignments</p> <p>Assignment #1 / HTML / ASP / CSS / Graphics</p> <p>Assignment #2 / Javascript</p> <p>Assignment #3 / Financial Calculator / Visual Studio C# Application basics Videos</p> <p>Assignment #4 / Shopping Cart (C#, ASP.NET, Cookies, Session, Database) (See section I below)</p>
B	<p>Account Information</p> <p>Practice Exam 1 Part 2</p>
C	<p>Basic HTML TAGS / Examples Tutorial W3 Tutorial</p> <p>Search Form: Google, Bing, Yahoo, Wikipedia</p> <p>Cascading Style Sheets Tutorial</p>
E	<p>ASP / HTML Forms</p>
F	<p>Java Script Overview</p> <p>Java Script Examples</p> <p>Using JavaScript Include files</p> <p>Using JavaScript for form validation (with Javascript validation library included)</p> <p>VBScript / JavaScript comparison)</p> <p>Google Maps</p> <p>JQuery</p> <p>Ajax</p>

G	<p>Visual Studio / C# Applications</p> <p>Image Library (Images for Web Browser found in ./Actions/24bitcolor bitmaps)</p> <p>Microsoft Links: Resource: Windows Forms Controls http://msdn.microsoft.com/en-us/library/3xdhey7w.aspx</p>
H	<p>Visual Studio / C# ASP.NET</p> <p>ASP.NET (http://msdn.microsoft.com/en-us/library/ms644563.aspx)</p>
I	<p>ASP.NET Shopping Cart Instructions / View Example</p> <p>Videos / Requirements to make an A</p> <p>Master Page designs / Creating a Master Page (Merged Master File)</p> <p>Maintain Products (Edit /Delete/ Add)</p> <p>Shop / Display Details / Add to Cart / View Cart</p> <p>Clear Cookies / Clear Cart</p> <p>Ad Rotator</p> <p>Publish:</p> <p>May have to create a new Profile by pulling down and selecting "New Profile". Call is Shopcart</p> <p>Publish Method: FTP Location: ftp://ftp.drigiddens.com/shopcart Server: ftp://ftp.drigiddens.com Directory / Site Path: shopcart Passive Mode : On Destination URL: Leave blank UserName: ftp.drigiddens.comyouruserid</p>

COURSE DATES

Final Exam: Wednesday, March 4 - normal class time

No class days: Martin Luther King Day - Jan 19
Spring Break March 14-22
No Classes April 6

METHODOLOGY

Course will be a combination of lecture, lab work, and presentation.

GRADING POLICY

1. All programming assignments are due at the start of class on the due date.
2. Late assignments will not be accepted.
3. This course is designed to build **individual** programming skills. Any copying of assignments will cause a student to fail the course.
4. Exams will be multiple choice, true/false, programming.
5. Final exam will be comprehensive.
6. Makeup exams will be given only when the instructor has approved the request for either illness, death in the family, etc, **prior to the exam.**
7. Grades will be assigned as follows:

Programs will be worth 30% of the final grade.

There will be 2 major exams (including the final) - each worth 30% of your grade.

Subjective evaluation from the instructor of student participation of lab exercises - 10%

A - 90 or better average
B - 80 - 89 average
C - 70 - 79 average
D - 60 - 69 average
F - average less than 60

CLASS ATTENDANCE

Each student is responsible for attending classes. Only the instructor has the authority to excuse a student's absence.

DISABILITY STATEMENT

Any student who, because of a disability, may require special arrangements in order to meet the course requirements should contact the instructor as

soon as possible to make any necessary arrangements. Students should present appropriate verification from Student Disability Services during the instructor's office hours. Please note instructors are not allowed to provide classroom accommodations to a student until appropriate verification from Student Disability Services has been provided. For additional information, you may contact the Student Disability Services office in 335 West Hall or 806-742-2405.