Course Syllabus for ITE254 Web Programming 2

Course Information

Title:	Web Programming 2
Course Number:	ITE 254
Credits:	3.0 Credits
Section:	
Semester / Term:	
Meeting Times / Location:	

Instructor/Contact Information

Professor Name:	Prof. Jared M. Ganson
Office Location:	C-3088
Office Hours:	Wed 2:00pm - 3:15pm, Fri 11:00am - 12:15pm
Office Phone:	516-572-7977
Email Address:	jared.ganson@ncc.edu
Website URL:	http://newton.ncc.edu/gansonj
Professor Name:	Prof. Jared M. Ganson
Office Location:	C-3088

Course Description

This course offers students advanced instruction in web programming via server-side and client-side programming languages and database integration. Students develop interactive web pages to understand how web professionals build e-commerce and search sites in the job marketplace. Languages PHP, JSP, and CSS are used and integrated with MySQL. Various development tools are explored.

Course Pre-requisite

At least a C or better in ITE 204. Students must have satisfied all MAT, ENG and RDG remediation requirements prior to starting this course. (3.0 lecture hours).

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Learning Outcomes and Objectives
To provide a background in computer programming.

SUNY General Education Goals & Outcomes

1. Server-side Programming Languages
Students will become familiar with server-side programming languages, database integration, and formatting tools and their relationships to web based problem solving.
Outcome
1.1 Database Integration
Students will use a server-side programming language and write code that would integrate data from a database.

2. Web Applications
Students will demonstrate familiarity with objects and classes and their use with web applications.
Outcome
2.1 Classes and Objects
Students will create a dynamic web page using programming language specific created classes and objects.

3. Creating a Web Page
Students will learn to create a web page using dynamic content from a database.
Outcome
3.1 Writing Code
Students will write code that will integrate data from a database into a server-side program that will create a dynamic web page for the end user.

Instructional Methods
This course is taught using a variety of instructional methods including lecture, class discussion and hand-on computer lab instruction.

Textbook and Materials
PHP and MySQL Web Development, 5th edition by Luke Welling and Laura Thomson.
Published by Developer's Library
ISBN-13: 978-0321833891 ISBN-10: 0321833899

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Student Responsibilities/Course Policies

Instructors need to complete the following for their specific policies. It is recommended that in class exams are required.

Homework:	10-15 assignment 15% of final grade
Projects:	3-5 projects 25% of final grade
Exams / Quizzes:	3 examinations, 60% of final grade
Attendance / Lateness Policy:	3 unexcused absences, half letter off final grade for each absence over 3. Multiple lateness will count as absences
Missed Exam / Quiz Policy	Zero for missed exams, doctor's note exception

Academic Dishonesty & Plagiarism

Academic dishonesty, which includes plagiarism and cheating, will result in some form of disciplinary action that may lead to suspension or expulsion under the rules of the Student Code of Conduct. Cheating can take many forms including but not limited to copying from another student on an examination, using improper forms of assistance, or receiving unauthorized aid when preparing an independent item of work to be submitted for a grade, be it in written, verbal or electronic form. Anyone who assists or conspires to assist another in an act of plagiarism or any other form of academic dishonesty may also be subject to disciplinary action.

Plagiarism is a particular type of academic dishonesty that involves taking the words, phrases or ideas of another person and presenting them as one's own. This can include using whole papers and paragraphs or even sentences or phrases. Plagiarized work may also involve statistics, lab assignments, art work, graphics, photographs, computer programs and other materials. The sources of plagiarized materials include but are not limited to books, magazines, encyclopedias or journals; electronic retrieval sources such as materials on the Internet; other individuals; or paper writing services.

A student may be judged guilty of plagiarism if the student:

(a) Submits as one's own an assignment produced by another, in whole or in part.
(b) Submits the exact words of another, paraphrases the words of another or presents statistics, lab assignments, art work, graphics, photographs, computer programs and other materials without attributing the work to the source, suggesting that this work is the student's own.

Allegations of student plagiarism and academic dishonesty will be dealt with by the appropriate academic department personnel. It is the policy of Nassau Community College that, at the

discretion of the faculty member, serious acts will be reported in writing to the Office of the Dean of Students, where such records will be kept for a period of five years beyond the student's last semester of attendance at the College. These records will remain internal to the College and will not be used in any evaluation made for an outside individual or agency unless there is a disciplinary action determined by a formal ruling under the Student Code of Conduct, in which case only those records pertaining to the disciplinary action may apply. A student whose alleged action is reported to the Office of the Dean of Students will be notified by that office and will have the right to submit a letter of denial or explanation. The Dean will use his/her discretion in determining whether the alleged violation(s) could warrant disciplinary action under the Student Code of Conduct. In that case the procedures governing the Code of Conduct will be initiated.

Copyright Statement

The Higher Education Opportunity Act of 2008 (HEOA) requires the College to address unauthorized distribution of copyrighted materials, including unauthorized peer-to-peer file sharing.

Thus, the College strictly prohibits the users of its networks from engaging in unauthorized distribution of copyrighted materials, including unauthorized peer-to-peer file sharing. Anyone who engages in such illegal file sharing is violating the United States Copyright law, and may be subject to criminal and civil penalties. Under federal law, a person found to have infringed upon a copyrighted work may be liable for actual damages and lost profits attributable to the infringement, and statutory damages of up to $150,000. The copyright owner also has the right to permanently enjoin an infringer from further infringing activities, and the infringing copies and equipment used in the infringement can be impounded and destroyed. If a copyright owner elected to bring a civil lawsuit against the copyright infringer and ultimately prevailed in the claim, the infringer may also become liable to the copyright owner for their attorney's fees and court costs. Finally, criminal penalties may be assessed against the infringer and could include jail time, depending upon the severity of the violation.   Students should be aware that unauthorized or illegal use of College computers (such as engaging in illegal file sharing and distribution of copyrighted materials), is an infraction of the Student Code of Conduct and may subject them to disciplinary measures. To explore legal alternatives to unauthorized downloading, please consult the following website: http://www.educause.edu/legalcontent.

Course Resources

Suggested websites: https://www.w3schools.com

Library services: Course textbook is available at the reference desk at the NCC library.

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Labs and learning centers:	As part of this course, students should avail themselves to further study and/or educational assistance that is available in the Computer Center in B225.
Extra help options:	Office hours if available and the Computer Center in B225.

Assessments and Grading Methods

Provide a clear explanation of evaluation, including a clear statement on the assessment process and measurements. Be explicit! Include format, number, weight for quizzes and exam, descriptions of papers and projects as well as how they will be assessed and the overall grading scale and standards.

Homework counts as 15% of final grade and will be given at least once a week. All assignment solutions must be uploaded to my website for credit. Students must make a viable effort towards a solution for credit on assignment. Projects will count as 25% of final grade and there will be a total of 3-5 project assignments. Projects will be assessed on functionality, and the code will be assessed using standard coding conventions as defined by industry. There will be 3 exams that will count as the remaining 60% of the final grade. There will be two written exams and 1 hands-on exam. The hands on exam will allow open notes and open Internet.

Americans with Disabilities Statement & Non-discrimination Statement (NCC Required)

If you have a physical, psychological, medical, or learning disability that may have an impact on your ability to carry out the assigned coursework, I urge you to contact the staff at the Center for Students with Disabilities (CSD), Building U, (516) 572 – 7241, TTY (516) 572 – 7617. The counselors at CSD will review your concerns and determine to what reasonable accommodations you are entitled as covered by the Americans with Disabilities Act and section 504 of the Rehabilitation Act of 1973. All information and documentation pertaining to personal disability will be kept confidential."

NASSAU COMMUNITY COLLEGE
Department of
Mathematics / Computer Science / Information Technology

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Course Schedule and Important Dates

Provide a detailed list of meeting dates, topics, assignments, and due dates for all exams, scheduled quizzes, papers, projects, assignments, labs, etc. Use a grid format to help students easily read and understand the information.

Week Number	Date	Topic
Week 1		Class Introduction Introduce student server space, upload via SFTP Review CSS Classes and IDs
Week 2		CSS Review Beginning PHP Variables and memory Calculations IF statements Loops (While loops and For loops) **Project #1 CSS related assignment**
Week 3		PHP and form processing Select elements and PHP; option tag values
Week 4		Arrays Building an HTML select element from a PHP array **Project #2 arrays and form related assignment**
Week 5		Using PHP to send text message through a webpage **Exam #1**
Week 6		Intro to database integration Set up a MySQL database Integrating database data into webpage using PHP
Week 7		Integrating database data using PHP and utilizing IF statements. Using CSS to stylize database data Performing calculations with database data **Project #3 database and PHP related assignment**
Week 8		Various user defined queries retrieved from HTML form Using database to build HTML select tag
Week 9		Using PHP to perform delete queries Using PHP to perform update queries
Week 10		Review **Exam #2**

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Week 11		Introduction to jQuery Using jQuery to animate hidden DIV tags
Week 12		Showing the use of CLASS assignments to automate event handling Using jQuery for HTML form processing
Week 13		Introduction to Ajax Using jQuery and Ajax to bridge client-side and server-side code. Pull data in from database using PHP code called from Ajax within jQuery.
Week 14		jQuery and Ajax **Project #4 jQuery / Ajax related assignment**
Week 15		Review **Exam #3**