

Term: Summer - 2022

Course: **CST8285 – Web Programming**

Section: **300**

Program: **Computer Programming**

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Learning Resources

Required Resources

- ❖ The **textbook** and additional references for this course are the same as those listed in the approved **Course Outline** available on Brightspace:
 - **Main book (required):**
 - ◆ Learning PHP, MySQL and JavaScript: A Step-by-Step Guide to Creating Dynamic Websites (ISBN 9781492093824)
 - **Additional Reference:**
 - ◆ W3schools.com
 - ◆ Php.net
 - ◆ Online resources
 - ◆ Lecture Slides

Additional Reference/Supporting Resources (specific to this course section)

- ◆ Xamp or WampServer
- ◆ Visual studio code or Notepad++
- ◆ **Auxiliary tools:**
 - **Git / Github access** for control version system (especially working in pairs): Download: <https://git-scm.com/downloads>

Evaluation Breakdown

Assessment	Value	CLRs
Lab Activities (6 labs):	20% <ul style="list-style-type: none"> • Lab1:3% • Lab2:3% • Lab3:3% • Lab4:3% • Lab5:4% • Lab6:4% 	1, 2, 4, 5, 6
Lab Assignment(s) <ul style="list-style-type: none"> • Lab Assignment 1 Weeks 2 – 7 • Lab Assignment 2 Weeks 10 – 14 	30% <ul style="list-style-type: none"> • 15% • 15% 	1, 2, 3, 4, 5, 6
Total Practical	50%	
Quizzes (10 + 1 bonus) -including Hybrid work	10%	1, 2, 4, 5, 6
Midterm Exam	20%	4
Final Exam	20%	4
Total Theory	50%	

Learning Schedule *(subject to change with notification)*

Date	Weekly Theme and Learning Outcomes	Learning Activities	Assessments (%)	Resources	CLRs
Week 1	<ul style="list-style-type: none"> • Course Overview • Introduction to Web Programming 	Prelab – IDE setup		Brightspace materials	1
Week 2	HTML Learn concepts and general structure of HTML <ul style="list-style-type: none"> • Learn about HTML Form 	Lectures <ul style="list-style-type: none"> • Discussion of theory • Usage of Brightspace slide deck • Hybrid Activity (1): • Lab 1 • Assignment 1 starts 	<ul style="list-style-type: none"> • Quiz 1 (1%) 	<ul style="list-style-type: none"> • Topic specific resources are included in the course materials available on Brightspace. 	1, 2, 3, 4, 5
Week 3	HTML Learn about HTML attributes	Lectures <ul style="list-style-type: none"> • Discussion of theory • Usage of Brightspace slide deck • Hybrid Activity (2): • Demonstrating examples of HTML concepts • Lab 2 	<ul style="list-style-type: none"> • Quiz 2 (1%) • Demo Lab1(3%) 	<ul style="list-style-type: none"> • Topic specific resources are included in the course materials available on Brightspace. 	1, 2, 3, 4, 5
Week 4	CSS <ul style="list-style-type: none"> • Learn concepts and general structure of CSS selectors, Template. 	Lectures <ul style="list-style-type: none"> • Discussion of theory • Usage of Brightspace slide deck • Hybrid Activity (3): 	<ul style="list-style-type: none"> • Quiz 3 (1%) • Demo Lab2 (3%) 	<ul style="list-style-type: none"> • Topic specific resources are included in the Topic specific resources are included in the course materials 	1, 2, 3, 4, 5

Date	Weekly Theme and Learning Outcomes	Learning Activities	Assessments (%)	Resources	CLRs
		<ul style="list-style-type: none"> Demonstrating examples of CSS concepts Lab3 		available on Brightspace.	
Week 5	CSS responsive CSS Bootstrap Design guides	Lectures <ul style="list-style-type: none"> Discussion of theory Usage of Brightspace slide deck Hybrid Activity (4): Demonstrating examples of CSS concepts 	<ul style="list-style-type: none"> Quiz 4 (1%) 	<ul style="list-style-type: none"> Topic specific resources are included in the Topic specific resources are included in the course materials available on Brightspace. 	1, 2, 3, 4, 5
Week 6	JavaScript Learn general JavaScript syntax and the uses of the language, array, window object	Lectures <ul style="list-style-type: none"> Discussion of theory Usage of Brightspace slide deck Hybrid Activity (5): Demonstrating examples of JavaScript concepts Lab4 	<ul style="list-style-type: none"> Quiz 5(1%) Demo Lab 3 (3%) Assignment 1(due) 	<ul style="list-style-type: none"> Topic specific resources are included in the course materials available on Brightspace. 	1, 2, 3, 4, 5
Week 7	Midterm	Midterm (20%)	<ul style="list-style-type: none"> Assignment 1 Demo (10%) 		4
Week 8	Term Break	Term Break	Term Break	Term Break	-
Week 9	JavaScript Dynamic web page, DOM	Lectures <ul style="list-style-type: none"> Discussion of theory Usage of Brightspace slide deck Hybrid Activity (6) Demonstrating examples of JavaScript concepts Lab 5 	<ul style="list-style-type: none"> Quiz 6(1%) Demo Lab 4 (3%) 	<ul style="list-style-type: none"> Topic specific resources are included in the course materials available on Brightspace 	1, 2, 3, 4, 5
Week 10	PHP Learn how PHP is used and connects to web pages	Lectures <ul style="list-style-type: none"> Discussion of theory Usage of Brightspace slide deck Hybrid Activity (7) Demonstrating examples of JavaScript concepts Lab6 Assignment 2 starts 	<ul style="list-style-type: none"> Quiz 7 (1%) Demo Lab 5 (4%) 	<ul style="list-style-type: none"> Topic specific resources are included in the course materials available on Brightspace. 	1, 2, 3, 4, 5
Week 11	PHP & Databases <ul style="list-style-type: none"> Learn how to connect to a database with PHP to pull and commit data 	Lectures <ul style="list-style-type: none"> Discussion of theory 	<ul style="list-style-type: none"> Quiz 8 (1%) 	<ul style="list-style-type: none"> Topic specific resources are included in the course materials 	1, 2, 3, 4, 5

Date	Weekly Theme and Learning Outcomes	Learning Activities	Assessments (%)	Resources	CLRs
		<ul style="list-style-type: none"> Usage of Brightspace slide deck Hybrid Activity (8) Demonstrating examples of PHP concepts 		available on Brightspace.	
Week 12	PHP <ul style="list-style-type: none"> Learn more advanced features of PHP OOP 	Lectures <ul style="list-style-type: none"> Discussion of theory Usage of Brightspace slide deck Hybrid Activity (9) Demonstrating examples of PHP concepts 	<ul style="list-style-type: none"> Quiz 9 (1%) Demo Lab6 (4%) 	<ul style="list-style-type: none"> Topic specific resources are included in the course materials available on Brightspace. 	1, 2, 3, 4, 5
Week 13	PHP <ul style="list-style-type: none"> Json, Error Handling Encoding and Decoding 	<ul style="list-style-type: none"> Discussion of theory Usage of Brightspace slide deck Hybrid Activity (10) Demonstrating examples of PHP concepts 	<ul style="list-style-type: none"> Quiz 10(1%) Assignment 2 Due 	<ul style="list-style-type: none"> Topic specific resources are included in the course materials available on Brightspace. 	1, 2, 3, 4, 5
Week 14	<ul style="list-style-type: none"> Review 	Lectures <ul style="list-style-type: none"> Discussion of theory Usage of Brightspace slide deck Hybrid Activity (11) 	<ul style="list-style-type: none"> Bonus quiz (1%) Demo Assignment 2 (15%) 	<ul style="list-style-type: none"> Topic specific resources are included in the course materials available on Brightspace 	1,2,3, 4,5
Week 15	Final Exam	Final Exam	Final Exam (20%)	<ul style="list-style-type: none"> All the above 	4

Other Important Information

- ❖ Lectures will present the course material of the course. Students are expected to attend all the lectures.
- ❖ **You must get at least 50% in practical (labs and Assignments) and at least 50% in theory (Quizzes, midterm, and final exam) to pass the course. Simply getting 50% overall without meeting the 50% min in each theory and practical is not sufficient to pass the course.**
- ❖ Labs and **Lab Assignments** must be demonstrated according to their scheduled weeks (stated in the CSI). **Missed Demo on the specified date on CSI would result in zero mark.**
- ❖ Labs and **Lab Assignments** demo will be done During your lab session, where your lab professor would evaluate your work. Lab professor may ask you to do something else to verify that you have done the lab by yourself. Missed labs and Assignment's demo would result in **zero mark**.

- ❖ Submissions has always a due date on Sunday's midnight.
- ❖ Late Labs and **Lab Assignments** will be penalized at the rate of 20% per day late Up to 3 days after the due date.
- ❖ **No late submission for Lab Assignments 2.**
- ❖ Each week the quiz will open on Friday and will close Monday midnight. The content in the quiz will be based on the topics which have been covered that week. Quiz marks are released manually so expect them around Tuesday. Solutions will not be visible in the quiz section.