

<b>Course Name:</b>	<b>CSC443 Web Programming</b>
<b>Class Time and Location</b>	TR 9:30 – 10:45 am, Nicol Hall 403
<b>INSTRUCTOR</b>	Dr. Khaleel Mershad
<b>Course Coordinator</b>	
<b>Credits Hours:</b>	3
<b>Semester:</b>	Fall 2022

#### INSTRUCTOR

**Dr. Khaleel Mershad**

**Email:** khaleel.mershad@lau.edu.lb

**Office:** 519 Nicol Hall

**Office Hours:** Monday 12:00 - 2:00 pm; or by appointment

#### CURRENT CATALOG DESCRIPTION

This course introduces advanced concepts in web programming, and focuses on the development of dynamic web pages that incorporate both client-side and server-side programming. The course uses current web development techniques and covers access to databases through web applications as well as installation and configuration of web servers. Hands-on experience is part of the class.

#### CO-REQUISITE

CSC 375 - Database Management Systems

#### COURSE TYPE

Required ☐ Major Elective ☒ General Elective ☐

#### COURSE LEARNING OUTCOMES

CLO1. Students shall be able to effectively program using at least two modern web programming language.

CLO2. Students shall be able to use databases with web applications.

CLO3. Students shall be able to develop server and client side scripts.

CLO4. Students shall be able to work effectively in a team in order to successfully complete a substantial project by integrating various web technologies.

#### TEXTBOOK

Most of the course material will be given during lectures and made available to students; however, the following books would make good companions both in terms of practical guides and references:

[T1] Deitel and Deitel, *Internet & The World Wide Web How to Program* (5th edition), Prentice Hall, 2012.

[T2] R. Nixon, *Learning PHP, MySQL & JavaScript* (6th edition), O'Reilly Media, 2021.

#### REFERENCES

- L. Welling and L. Thomson, *PHP and MySQL Web development* (5th edition), Addison-Wesley, 2017.
- R. W. Sebesta, *Programming the World Wide Web* (8th edition), Pearson, 2015.
- J. Murach and R. Harris, *Murach's PHP and MySQL* (3rd edition), Mike Murach & Associates, 2017
- T. Boronczyk, E., Naramore, & J. Gerner, *Beginning PHP 6, Apache, MySQL 6 Web Development*, Wiley, 2009.
- B. McLaughlin, *PHP & MySQL: the missing manual* (2nd edition), O'Reilly Media, Inc., 2012.

## TOPICS COVERED IN THE COURSE

<b>Week</b>	<b>Lecture / activity (the following is not exact; we might rearrange some parts)</b>	<b>Textbook Chap.</b>
1	<ul style="list-style-type: none"> <li>Course organization,</li> <li>Introduction to the Course,</li> <li>Introduction to web programming (Frontend/Backend),</li> <li>General Overview about the web, HTML5, CSS3, JavaScript and tools used in course.</li> </ul>	[T1] – chapter 1
2-3	<ul style="list-style-type: none"> <li>Basic HTML and Forms.</li> <li>Introduction to course project</li> </ul> <b>Assignment 1</b>	[T1] – chapters 2 and 3
4	<ul style="list-style-type: none"> <li>Basic Introduction to CSS (fonts, colors, etc..)</li> </ul>	[T1] – chapter 4
5-6	<ul style="list-style-type: none"> <li>JavaScript Basics</li> </ul> <b>Assignment 2</b>	[T1] – chapters 5 – 11 (selected parts)
7	<ul style="list-style-type: none"> <li>DHTML using JavaScript</li> </ul> Project Delivery-1 ( <b>Frontend</b> )	[T1] – chapter 12
	<b>Midterm Exam</b>	
8-9	<ul style="list-style-type: none"> <li>Webserver configuration (Installing XAMPP)</li> <li>Basic Introduction to PHP (language structures, syntax, etc.)</li> <li>PHP functions, Arrays, regular expressions, form parsing</li> <li>PHP Cookies</li> </ul>	[T1] – chapter 17 and 19
10	<ul style="list-style-type: none"> <li>PHP connection with MySQL Database</li> <li>PHP connection with MongoDB</li> </ul> <b>Assignment 3</b>	[T1] – chapter 19
11	<ul style="list-style-type: none"> <li>JavaScript Event Handling</li> </ul>	[T1] – chapter 13
12-13	<ul style="list-style-type: none"> <li>XML</li> <li>Ajax-Enabled Rich Internet Applications</li> </ul>	[T1] – chapters 15 and 16
14	<ul style="list-style-type: none"> <li>Introduction to JQuery</li> </ul> <b>Assignment 4</b>	[T2] – chapter 22
15	Project Delivery-2 ( <b>Backend + enhanced Frontend</b> ) Project presentations <b>Final Exam</b>	

## COURSE GRADING

• Final Exam	30%
• Project	30%
• Midterm	20%
• Assignments	15%
• Attendance/Participation	5%

## PROJECT

A group project, to be determined within 3 weeks of the course start date will be used to integrate the concepts introduced in this course. The project consists of a web site design using the technologies seen in the course (HTML, CSS, JavaScript, PHP) with a connection to a database of your choice (MySQL, MongoDB). The students will deliver the project outcomes at two stages: the frontend will be delivered towards the middle of the course while the full website (including the backend and the enhanced frontend) will be delivered and presented during the last week of classes.



**STUDENT CODE OF CONDUCT – ACADEMIC VIOLATIONS**

The following table defines the sanction(s) associated with each violation. In some cases and when the violation is too general, a range of sanctions is set for the pertinent committee to choose from depending on the specifics of each case. As for the second offense, the set sanctions apply regardless whether the violation has taken place in the same course or a different one, within the same semester or not.

<b>Code #</b>	<b>Violation</b>	<b>First Offense</b>	<b>Second Offense</b>
<b>Cheating</b>			
2.2.1	Using material or equipment (including mobile phones, electronic tablets, i-pads, calculators, and other devices) that is not authorized by the instructor in an examination, project, or graded assignment	zero on the deliverable with a warning	F on the course with a warning
2.2.2	Cheating, copying, collaborating with or aiding another Student in a manner not permitted by the instructor on an examination, project, or other graded assignment	zero on the deliverable with a warning	suspension
2.2.3	Distributing or aiding in the distribution of previous exams without authorization of the instructor	double warning – suspension	suspension – expulsion
2.2.4	Stealing, reproducing, or circulating an examination or other graded assignment before it has been administered	suspension	expulsion
2.2.5	Impersonating another Student or allowing another Student to impersonate one's self during an examination, presentation, or other graded assignment	suspension for both	expulsion
2.2.6	Impersonating an assistant, staff member, or faculty member for the purpose of (a) proctoring examinations without authorization or permission or (b) obtaining confidential information regarding coursework or examinations	suspension – expulsion	expulsion
2.2.7	Receiving, purchasing or selling a project, paper, or any academic document and presenting it as work other than that of the author	suspension – expulsion	expulsion
2.2.8	Submitting identical papers or coursework for credit in more than one class without the permission of the instructor	zero on the deliverable with a warning	F on the course with a warning
<b>Plagiarism and Copyright Violations</b>			
2.2.9	Failing to attribute language or ideas to their original source by not crediting the original author with an appropriate acknowledgement or citation	zero on the deliverable with a warning	F on the course with a warning
2.2.10	Using photocopied or electronic copies of textbooks, compact disks, films, music, online course materials, and other content beyond the fair use policy within University Premises	warning	double warning
2.2.11	Using copyrighted materials, including in written research reports and papers, without obtaining required permission, if any, from the rights holder	warning	double warning
<b>Unauthorized Sale, Distribution, or Use of Course Materials</b>			
2.2.12	Recording any lecture or presentation for personal use or public distribution without the prior consent of the course instructor. This applies to the unauthorized use of any medium including but not limited to mobile phones, electronic tablets, i-pads recorders, films, and other devices	warning	double warning



Code #	Violation	First Offense	Second Offense
2.2.13	Selling academic materials by any Student, club, or group. This includes but is not limited to lectures, course recordings, class notes, and previous exams	warning	double warning

#### UNIVERSITY ATTENDANCE POLICY

1. Students are expected to attend all classes.
2. For valid reasons, students may miss classes for a maximum that is equivalent to two regular weeks or less than 20% of the total number of sessions.
3. When exceeding the maximum number of absences, it is the instructor's prerogative to ask the concerned student to stop attending and drop the course. In this case, it is the student's responsibility to drop the course, otherwise a grade of "F" or "NP" will be given.
4. In exceptional justified cases (long illness, etc...), where absences exceed the maximum, the student has to petition to the department Chair to be allowed to stay in the course.
5. Students are held responsible for all the material presented in the classroom, even during their absence.

#### WITHDRAWAL POLICY

1. A student who withdraws after the Drop/Add period and by the end of the 5th week of classes (10th day of classes for Summer Modules) will obtain a "WI" on that particular course.  
The student may process such request directly through the Registrar's Office.
2. A student who withdraws from a course between the 6th week and the end of the 10th week of classes (18th day of classes for Summer Modules) will receive either a "WP" or a "WF". "WP" or "WF" will be determined by the instructor based on the achieved academic performance in that course till the time of withdrawal.
3. The "WI" and the "WP" will not count as a Repeat; whereas the "WF" will count as a Repeat.
4. "WI", "WP" and "WF" will not count towards the GPA calculation.
5. The deadlines for "WI" or "WP"/"WF" are clearly stated on the revised academic calendar on the LAU website:
  - WI is equivalent to Early Withdrawal
  - WP is equivalent to Withdrawal/Pass
  - WF is equivalent to Withdrawal/Fail

**Deadline for the "WP" and "WF" withdrawal from courses:** check university calendar (It is the student's responsibility to drop the course)

#### COURSE ONLINE EVALUATIONS

In order to improve the effectiveness of the educational process, all students are expected to submit their course evaluations by the last day of classes. Students who fail to complete the evaluation of ALL registered courses by the set deadline:

1. will not be able to access their course grades from Banner or Portal until two weeks after the end of the final exams period; and
2. will not be able to request transcripts.

The anonymity of the process and the students will be maintained at all times.

#### TIPS FOR SUCCESS

- **Reading the textbooks is a must.** Don't depend on notes or slides
- Keep up with readings, homework, and course activities. DON'T POSTPONE.
- Actively participate in class.



- If you encounter difficulties, communicate with your instructor; don't give up easily.
- Don't wait until the last minute to start your assignments or to study for an exam.

#### **ADDITIONAL REMARKS**

- Deadlines for the assignments and projects **must be respected**. Students who fail to submit their assigned work on time will receive a zero grade.
  - Make-ups and Incomplete: students are not automatically entitled to make-ups; F will be given until reasons (in writing and within one week of absence) are presented and approved.
  - Students are given one week after the grades are announced to request review of the correction of their exam paper or assigned work.
  - Some of the exam questions will be based on class discussion and assignments.
  - No mobile phones in the classroom.
  - Policy on Cheating and Plagiarism: Please refer to the Student Code of Conduct, particularly Appendix B: ([https://www.lau.edu.lb/about/policies/student\\_code\\_of\\_conduct.pdf](https://www.lau.edu.lb/about/policies/student_code_of_conduct.pdf))
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