

# Capital University of Economics and Business

## Overseas Chinese College

### Course Syllabus

<b><u>Year and Semester</u></b>	2023 Spring
<b><u>Course Name</u></b>	Web Design and Programming
<b><u>Course Code</u></b>	MIS305
<b><u>Course Type</u></b>	<input type="checkbox"/> General Education (Required) <input type="checkbox"/> General Education (Elective) <input type="checkbox"/> Professional Course (Required) <input checked="" type="checkbox"/> Professional Course (Elective) <input type="checkbox"/> Basic Disciplinary Course
<b><u>Course Credits</u></b>	4
<b><u>Course Hours</u></b>	64
<b><u>Prerequisites</u></b>	MIS111 Introduction to computer Technology
<b><u>Instructor</u></b>	Xin Zhang (Helen Zhang)
<b><u>Contact Information</u></b>	Office: C217 Tele: (010)83951082 Email: zhangxin@cueb.edu.cn
<b><u>Office Hour</u></b>	M: 9:55—12:20; T: 9:55—12:20;
<b><u>Learning Centre</u></b>	W: 18:00—19:35 (online); F: 13:30—15:05;
<b><u>Grade/Section</u></b>	2020IT&CFA
<b><u>Course Time/Place</u></b>	T: 13:30—15:05 / B308; F: 8:00—9:35 / B308
<b><u>Textbook</u></b>	Jon Duckett. <i>Beginning HTML, XHTML, CSS, and JavaScript</i> . Wiley Publishing, Inc. Edition Press, IN, ISBN 978-0-470-54070-1.

#### **Reference Book**

1. W Jason Gilmore. *Beginning PHP and MySQL, 4th Edition*. Apress, ISBN 978-1-4302-3114-1.

#### **Course Description**

This course introduces the basic concepts of the WWW, and the principles and tools that are used to develop Web applications. It also provides an overview of Internet technology and Web protocols, client side and server side programming, communication and design. The main technologies covered are HTML, XHTML, CSS, JavaScript, PHP and SQL which are enough to work on some real web projects.

This course is a basic course in web design and development that teaches you how to implement a web site using a programming language. We used HTML, CSS, and JavaScript as the programming language for the front-end page, PHP as the language of the server side, and connected to the SQL database. After learning, you can design a variety of websites according to the needs of users.

#### **Student Learning Objectives**

After completing this course, students will be able to:

##### **Knowledge:**

- The language of website development, and the framework structure of the front page and background database of the website.

- Installation and use of website development software.
- Editing and modification of web development languages.
- Identify the advantages and disadvantages of the website.

#### Capability

- Describe the architecture of website, as well as the features and functionality of various programming languages, such as HTML, PHP, SQL.
- Analyze the architecture, content, and advantages and disadvantages of the Well-known websites.
- Develop a complete website by using the HTML, CSS, JavaScript, PHP and SQL programming language according to the user's needs.
- Present the final result of the website.

#### Mindset

- Understand the importance and necessity of teamwork.
- Demonstrate Students' pride in their country and nation.
- Realize the loyal purpose of serving the people
- Apply logic and critical thinking in the process of decision making.

#### Website Source

1. <https://www.w3school.com.cn/>

#### Teaching Methods

This course contains lectures, class discussions, homework, quizzes, presentation and exams. Textbook content will be introduced first. Then real case and practice questions will be delivered to students as a way to test their understanding of the knowledge. This will require individual or group assignment in or after class.

This course contains teacher face-to-face instruction lecture, and students on-the-machine operation. Students will complete class exercises, group assignments and exams according to the teacher's requirements.

#### Grade Criterion

Component	Weight	Description
Final Exam	20%	A cumulative final examination will be given based on all the contents of the class. The exam paper may be composed of multiple-choice questions, short answer questions, essay questions. Students should rely primarily on homework assignments and class exercise as reference for exams.
Mid-Term Test	20%	A cumulative midterm test will be given based on all the contents that have been taught in class. The content shows the results of the intermediate nodes of the project. It should be completed within 50 minutes in class.
Homework	10%	Most of the assigned homework is taken from the Exercises in the textbook. Assignments will be collected at the clearly stated date. Late assignments will not be accepted. In general, each assignment should be complete in appropriate software and submit by Xuexitong(学习通) App. The graded will be published on the app.
Quizzes	10%	There will be at least 10 quizzes during the semester. It may also be used to check the attendance. Quizzes will test your theoretical knowledge and application ability.

Presentation	20%	The students will be divided into several groups to prepare a presentation. Each student is required to be involved in the presentation. Each member of the group will receive the group grade with certain weight of his/her contribution. Each group need to finish a code or report of the project, which is given and hand in the related resources to the teacher before the presentation.
Participation	10%	Individuals will be asked to participate individually in question and answer at least 10 times during the semester. The performances should be counted in their participation.
Attendance	10%	Refer to attendance policy listed below
<b>Total</b>	<b>100%</b>	

### **Detailed Grade Computation**

	<b>Before Midterm</b>	<b>After Midterm</b>
Attendance	5%	5%
Participation	5%	5%
Homework	5%	5%
Quizzes	5%	5%
Presentation		20%
Midterm test	20%	
Final exam		20%
<b>Total</b>	<b>40%</b>	<b>60%</b>

### **Grading Policy**

A+ 97-100	A 93-96	A- 90-92	B+ 87-89	B 83-86	B- 80-82
C+ 75-79	C 70-74	C- 67-69	D+ 63-66	D 62-60	F 0-59

### **Exam Schedule**

Midterm Test: 10 – 16, April

Final Exam: 5 – 9, June

### **Assessment of Student Performance**

#### *☞ Self-Study and Reading ability Practice*

Instructor will give out the chapters or the reference books to read and use class hours to have discussion; students should be able to show a proactive attitude and ability for self-study and reading. Knowledge and oral English will be elements of homework or presentation score.

#### *☞ Homework*

Students should finish their homework by themselves. Copying from others will be treated as cheating and the homework scores will be lowered. Students should hand in all assignments on time. Late assignments will be accepted at the discretion of the instructor (i.e., when the student was ill or had an excused absence). Late assignments without reasonable proof will be reduced in score by 50%.

#### *☞ Attendance*

Because the course covers a great deal of material, attending every class session is very important for

performing well.

- ♦ Being late for 15 minutes or more is considered an absence.
- ♦ Five hours or above of unexcused absences will result in the lower level of the final grade by one grade band (e.g. from C – to D +). Any excused absence must be discussed directly with the teacher.
- ♦ Absence which is more than 1/3 of the total teaching hours will cause an F (a failing grade) directly. but students are welcome to continue attending classes.
- ♦ An incomplete grade (I) will be considered in case of medical or family emergencies.

### *☞ Participation*

- ♦ Students should participate in classes actively. Half of participation grade is determined by their presentation in class. They are encouraged to ask questions relevant to the subject and express their own opinions. Every student should respect the ideas, opinions, and questions of their classmates.
- ♦ Students should also use office hours to ask questions or talk with the instructor for good communication and effective learning.
- ♦ Frequent visiting the instructor and chatting in English during office hours is highly recommended.
- ♦ Any misbehavior and non-class related activities in class will result in the lower level of the participation grade, including ringing cell phones.
- ♦ All above behaviors will be solely evaluated by the instructor for scoring.

### *☞ Textbook*

Students must bring the textbook to class.

## **Topical Course Outline**

Week	Topics	Homework
1	<ul style="list-style-type: none"> <li>● Syllabus</li> <li>● Chapter 1 Structuring Documents for the Web               <ul style="list-style-type: none"> <li>• Introducing HTML and XHTML</li> <li>• Core elements</li> <li>• Basic text formatting</li> <li>• Presentation elements</li> <li>• Phrase elements</li> <li>• Lists</li> </ul> </li> </ul>	
	<ul style="list-style-type: none"> <li>● Chapter 1 Structuring Documents for the Web               <ul style="list-style-type: none"> <li>• Comments</li> <li>• Group elements with &lt;div&gt;&lt;span&gt;</li> <li>• Exercise &amp; Quiz</li> </ul> </li> </ul>	Website sitemap & function & style design
2	<ul style="list-style-type: none"> <li>● Chapter 2 Links and Navigation               <ul style="list-style-type: none"> <li>• Links to e-mail,</li> <li>• Links to other pages</li> <li>• Directory structures</li> <li>• Exercise &amp; Quiz</li> </ul> </li> </ul>	
	<ul style="list-style-type: none"> <li>● Chapter 2 Links and Navigation               <ul style="list-style-type: none"> <li>• Anchor</li> <li>• Exercise &amp; Quiz</li> </ul> </li> </ul>	Assignment check
3	<ul style="list-style-type: none"> <li>● Chapter 3 Images, Audio, and Video               <ul style="list-style-type: none"> <li>• Image &lt;img&gt; element</li> <li>• Image link &amp; map</li> </ul> </li> </ul>	

	<ul style="list-style-type: none"> <li>• Adding flash, video, and audio</li> <li>• Exercise &amp; Quiz</li> </ul>	
	<ul style="list-style-type: none"> <li>● Chapter 4 Tables <ul style="list-style-type: none"> <li>• Table element &amp; attributes</li> <li>• Group sections of table</li> <li>• Exercise &amp; Quiz</li> </ul> </li> </ul>	
4	<ul style="list-style-type: none"> <li>● Chapter 4 Tables <ul style="list-style-type: none"> <li>• Nested table</li> <li>• Exercise &amp; Quiz</li> </ul> </li> </ul>	Assignment Check
	<ul style="list-style-type: none"> <li>● Chapter 5 Forms <ul style="list-style-type: none"> <li>• &lt;form&gt; element</li> <li>• Form controls</li> <li>• HTTP get &amp; post</li> <li>• Exercise &amp; Quiz</li> </ul> </li> </ul>	
5	<ul style="list-style-type: none"> <li>● Chapter 6 Frames <ul style="list-style-type: none"> <li>• &lt;frameset&gt; &amp; &lt;frame&gt; element</li> <li>• Links between frames</li> <li>• Nested frames</li> <li>• &lt;iframe&gt; element</li> <li>• Exercise &amp; Quiz</li> </ul> </li> </ul>	
	<ul style="list-style-type: none"> <li>● Chapter 11 JavaScript <ul style="list-style-type: none"> <li>• DOM</li> <li>• Variables &amp; Operators &amp; Functions</li> <li>• Condition &amp; Loop</li> <li>• Events &amp; Objects</li> <li>• Exercise &amp; Quiz</li> </ul> </li> </ul>	
6	<ul style="list-style-type: none"> <li>● Qing Ming Festival</li> <li>● Chapter 12 JavaScript <ul style="list-style-type: none"> <li>• Form Validation &amp; Form Enhancements</li> <li>• JavaScript Libraries</li> <li>• Exercise &amp; Quiz</li> </ul> </li> </ul>	Assignment Check
7	<ul style="list-style-type: none"> <li>● <b>Midterm Test</b></li> <li>● Chapter 9 Page Layout (self-learning) <ul style="list-style-type: none"> <li>• Page size &amp; Design pages</li> </ul> </li> </ul>	Assignment Demo
8	<ul style="list-style-type: none"> <li>● Chapter 7&amp;8 CSS <ul style="list-style-type: none"> <li>• Introducing CSS</li> <li>• &lt;link&gt;, &lt;style&gt; element</li> <li>• CSS Properties</li> <li>• Exercise &amp; Quiz</li> </ul> </li> </ul>	
	<ul style="list-style-type: none"> <li>● Chapter 13 PHP <ul style="list-style-type: none"> <li>• Setup WampServer on PC</li> <li>• Introduce PHP basic programming</li> <li>• Exercise &amp; Quiz</li> </ul> </li> </ul>	Assignment Check
9	<ul style="list-style-type: none"> <li>● Chapter 13 PHP <ul style="list-style-type: none"> <li>• File read and write</li> <li>• PHP (\$_POST, \$_GET)</li> <li>• Exercise &amp; Quiz</li> </ul> </li> </ul>	

	<ul style="list-style-type: none"> <li>● Chapter 14 PHP with SQL           <ul style="list-style-type: none"> <li>• Connect Database</li> <li>• Create database &amp; Create Table</li> <li>• Exercise &amp; Quiz</li> </ul> </li> </ul>	Assignment Check
10	<ul style="list-style-type: none"> <li>● Lab day</li> <li>● Chapter 14 PHP with SQL           <ul style="list-style-type: none"> <li>• Insert Table</li> <li>• Exercise &amp; Quiz</li> </ul> </li> </ul>	
	<ul style="list-style-type: none"> <li>● Chapter 14 PHP with SQL           <ul style="list-style-type: none"> <li>• Select &amp; Where data</li> <li>• Order by data</li> <li>• Exercise &amp; Quiz</li> </ul> </li> </ul>	Assignment Check
11	<ul style="list-style-type: none"> <li>● Chapter 14 PHP with SQL           <ul style="list-style-type: none"> <li>• Update data &amp; picture</li> <li>• Delete data</li> <li>• Exercise &amp; Quiz</li> </ul> </li> </ul>	
	<ul style="list-style-type: none"> <li>● Chapter 14 PHP with SQL           <ul style="list-style-type: none"> <li>• PHP validation</li> <li>• PHP Cookies &amp; Session</li> <li>• Exercise &amp; Quiz</li> </ul> </li> </ul>	Assignment Check
12	● Assignment consult	
13	Presentation	
14	Presentation & Review	
15	Final Exam	

*Note: Some chapters or sections may leave for self-study, they may also be included in the quizzes or exams*

### **Teacher's Office Hour**

- ◆ The instructor's office hour is shown in the front of the office door.
- ◆ Students are suggested to use the instructor's office hour and learning center to ask questions or talk with the instructor once at least per week for good communication and effective learning, which is recorded in the students' participation.
- ◆ The time can be scheduled by instructors or students, or both.

### **Cheating and Plagiarism**

Cheating is not tolerated. Any student caught cheating on a quiz; test or exam will be given a mark of zero (0) for the particular work. At the beginning of the semester the definition of plagiarism will be carefully explained, when any thoughts or writings of another person are used, they must be clearly identified (usually one uses quotation marks) and the source notes. **If any student is caught cheating on any homework assignment, the highest score the student can earn in that course is a "C".**

*Note: This syllabus is tentative and may be changed or modified throughout the semester. All students will be notified and a new syllabus will be given.*

**Instructor: Xin Zhang**

**Department Head: Jingning Li**

