College of Computer and Information Sciences
كلية علوم الحاسب والمعلومات

Kingdom of Saudi Arabia
Ministry of Higher Education
College of Computer & Information Sciences
Majmaah University

جامعة المجمعة
Majmaah Universi

CEN 300/CEN 218
Design and Web Programming
Term 2 – (2013- 2014)

Course Profile

All details in this course profile for CEN 300-218 have been officially approved by Majmaah University and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

General Information

OVERVIEW

The course will cover the following topics: Introduction to Web Technologies: Brief introduction to WWW, Components of Web Technologies (Web Server, Mail Server, Web Browser etc.), Static and Dynamic Websites, Client Browser Configuration.- Introduction to HTML: Evolution of Markup Languages, Introduction to HTML Document Structure, HTML tags (Basic Tags, Formatting Tags, Creating Hyperlink, Images, Frames, Tables and Forms), Cascaded Style Sheets(CSS) and it's applications, using cascaded style sheets with HTML.DHTML:DHTML role and benefits, creating interactive web pages using DHTML. Java Script Overview of Java Script Language, Java Script Data types, Variables, Control Structures, Primitive Operations, Objects etc., Using Java Script for validations, Event Handling, Using java script for input validations.

DETAILS

Level	7(CEN 300)-Old, 6(CEN 218)-New
Credit Points	3(2-0-2)

PRE-REQUISITES OR CO-REQUISITES

Pre-requisite: CEN 110(Old Plan), CEN 212(New Plan)

ATTENDANCE REQUIRMENTS

All on-campus students are expected to attend scheduled classes – in some courses, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for Majmaah University students is defined as maintaining at least an 75% attendance record).

ASSESSMENT OVERVIEW

Assessment Task	Weighting
1. Midterm Exam-1	15%
2. Midterm Exam-2	15%
3. Quizzes, Assignments	10%
4. Laboratory Assessment	20%
5. Final Exam	40%

This is a graded course: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the course of at least 60%, or an overall grade of 'pass' in order to pass the course. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the University's Grades and Results Procedures for more details of interim results and final grades.

Course Learning Outcomes

After completion of the course students will be able to:

1. Give the student an overview of the Web platform.

2. Students will understand the fundamentals of Internet Technology

3. Understand the Internet security issues and implement client requirements.

4. They will be able to understand the basic Internet services, design and publish simple web sites.

5. To understand the client-side web programming and its techniques.

6. Expand your understanding of JavaScript language to be able to program sophisticated client-side validation routines.

7. To be able to program moderately complex interactive client side website.

ALLIGNMENT OF ASSESSMENT TASKS TO LEARNING OUTCOMES

Assessment Task	Learning Outcomes						
	1	2	3	4	5	6	7
1. Midterm Exam-1	*	*		*			
2. Midterm Exam-2			*	*	*	*	
3. Quizzes	*			*		*	
4. Assignments		*			*		*
5. Laboratory Assessment					*	*	*
6. Final Exam	*	*	*	*	*	*	*

Textbook and Resources

PRESCRIBED TEXTBOOKS

Title: The Ultimate HTML REFERENCE			
Author/s	: Ian Lloyd	Year	: 2008
Edition	: --	Publisher	: SitePoint
ISBN-10	: 0980285887	ISBN-13	: 978-0980285888

Title: JavaScript and DHTML Cookbook			
Author/s	: Danny Goodman	Year	: 2007
Edition	: 2nd	Publisher	: O'Reilly
ISBN-10	:--	ISBN-13	:978-0596514082

Title: Introduction to Web Development using HTML 5			
Author/s	: Dr. Kris Jamsa	Year	: 2013
Edition	: --	Publisher	: Jones & Bartlett Learning
ISBN-10	: 1449686540	ISBN-13	: 978-1449686543

REFERENCE BOOKS:

Title: HTML: THE COMPLETE REFERENCE			
Author/s	: Thomas A.Powell	Year	: 1999
Edition	: 2nd	Publisher	: Mc-Graw Hill
ISBN-10	:	ISBN-13	: 978-0078823978

Title: HTML & CSS: THE COMPLETE REFERENCE			
Author/s	: Thomas A.Powell	Year	: 2010
Edition	: 5th	Publisher	: Mc-Graw Hill
ISBN-10	: 0071496297	ISBN-13	: 978-0071496292

IT RESOURCES

You will need access to the following IT resources:

- Web References and downloads:
  - http://www.w3schools.com/
  - http://www.apachefriends.org/en/xampp.html
  - http://validator.w3.org/
- Faculty Website: http://faculty.mu.edu.sa/a.ahmed
- College Computer Laboratory for Practical Implementation

Referencing style

All submissions for this course must use the **American Psychological Association (APA)** referencing style (details can be obtained here) OR **Harvard (author-date)** referencing style (details can be obtained here). For further information, see the Assessment Tasks below.

Teaching Contacts

Course Instructor:	Ahsan Ahmed
Lab Instructor:	Abdullah Alenizi
Email:	a.ahmed@mu.edu.sa
Office Hours:	MONDAY: 09:00 AM - 11:00 AM
Office Number:	R-11, First Floor, CCIS Building

Schedule

Week	Module/Topic	Chapter	Event and submission
Week-1	Introduction to Web Technologies: Brief introduction to WWW.	HTML: THE COMPLETE REFERENCE Chapter-2 Web Development Overview	
Week-2	Components of Web Technologies (Web Server, Mail Server, Web Browser etc.), Static and Dynamic Websites, Client Browser Configuration.	Introduction to Web Development using HTML 5, Chapter 1-Getting started with HTML	Assignment-1 Announced
Week-3	Introduction to HTML: Evolution	The Ultimate HTML	Assignment-1 Due(to be submitted at the beginning of

	of Markup Languages, Introduction to HTML Document Structure, HTML tags -Basic Tags,	REFERENCE Chapter-2,3- Head Elements, Structural Elements	this class)
Week-4	Formatting Tags, Creating Hyperlink, Images.	The Ultimate HTML REFERENCE Chapter-5,7- Text Formatting Elements, Images and Media Elements	Quiz-1
Week-5	Frames, Tables and Forms,	The Ultimate HTML REFERENCE Chapter-6,8,9- Form Elements, table elements, Frame and windows Elements	
Week-6			**First Midterm Exam Date and Time: TBA**
Week-7	Cascaded Style Sheets(CSS) , applications of CSS	HTML & CSS: THE COMPLETE REFERENCE, Chapter 4- Introduction to CSS	
Week-8	Using cascaded style sheets with HTML	HTML & CSS: THE COMPLETE REFERENCE, Chapter 5,6- CSS Syntax and Property reference, CSS3 Proprietary and Emerging Features reference	

Week-9	DHTML role and benefits, creating interactive web pages using DHTML	HTML: THE COMPLETE REFERENCE Chapter-13 Introduction to JavaScript and DHTML	Quiz-2
Week-10	Java Script Overview of Java Script Language, Java Script Data types, Variables,	JavaScript and DHTML Cookbook, Chapter 4-variables, functions and flow control	Assignment-2 Announced
Week-11	Control Structures, Primitive Operations, Objects etc.	JavaScript and DHTML Cookbook, Chapter 2,3-Numbers and Dates, Arrays and Objects	Assignment-2 Due (to be submitted at the beginning of this class) Assignment-3 Announced
Week-12			**Second Midterm Exam** **Date and Time: TBA**
Week-13	Using Java Script for validations, Event Handling	Introduction to Web Development using HTML 5, Chapter 10-JavaScript	Quiz-3
Week-14	Using java script for input validations.	Introduction to Web Development using HTML 5, Chapter 10-JavaScript	Assignment-3 Due (to be submitted at the beginning of this class)
Exam Week			**Final Exam** **Date and Time: TBA**

WRITTEN ASSESMENT

Assessment Title	**Midterm Exam-1**
Task Description	This assignment is aligned to learning outcomes 1, 2 and 4. In that regard, the assignment contains questions that assess: 1) Overview of the Web platform and web environment, 2) Fundamentals of Internet Technology, 4) Understanding the basic Internet services, design and publish simple web sites.
Assessment Due Date	**Week 6**
Return Date to Students	Week 7(Evaluated copies will be shown to students)
Weighting	15%
Assessment Criteria	
Referencing Style	N/A
Submission	Exam will be for duration of 2-3 hours in class.
Learning Outcomes Assessed	3. Give the student an overview of the Web platform. 4. Students will understand the fundamentals of Internet Technology. 5. They will be able to understand the basic Internet services, design and publish simple web sites.

Assessment Title	**Midterm Exam-2**
Task Description	This assignment is aligned to learning outcomes 3, 4, 5 and 6. In that regard, the assignment contains questions that assess: 3) Understanding of the Internet security issues and implement client requirements, 4) Ability to understand the basic Internet services, design and publishing of simple web sites, 5) Learning of client-side web programming and its techniques, 6) Understanding of JavaScript language to be able to program sophisticated client-side validation routines.
Assessment Due Date	**Week 12**
Return Date to Students	Week 13(Evaluated copies will be shown to students)
Weighting	15%
Assessment Criteria	
Referencing Style	N/A
Submission	Exam will be for duration of 2-3 hours in class.
Learning Outcomes Assessed	3. Understand the Internet security issues and implement client requirements. 4. They will be able to understand the basic Internet services, design and publish simple web sites. 5. To understand the client-side web programming and its techniques. 6. Expand your understanding of JavaScript language to be able to program sophisticated client-side validation routines.

Assessment Title	Quiz-1
Task Description	This assignment is aligned to learning outcomes 1. In that regard, the assignment contains questions that assess: Overview of the Web platform and Web Environment.
Assessment Due Date	**Week 4**
Return Date to Students	Week 5 (Evaluated copies will be shown to students)
Weighting	2%
Assessment Criteria	
Referencing Style	N/A
Submission	Quiz will be for duration of 15-30 minutes in class.
Learning Outcomes Assessed	1. Give the student an overview of the Web platform.

Assessment Title	Quiz-2
Task Description	This assignment is aligned to learning outcomes 4. In that regard, the assignment contains questions that assess: 4) Understanding of basic Internet services, design and publishing of simple web sites.
Assessment Due Date	**Week 9**
Return Date to Students	Week 10 (Evaluated copies will be shown to students)
Weighting	2%
Assessment Criteria	
Referencing Style	N/A

Submission	Quiz will be for duration of 15-30 minutes in class.
Learning Outcomes Assessed	4. They will be able to understand the basic Internet services, design and publish simple web sites.

Assessment Title	**Quiz-3**
Task Description	This assignment is aligned to learning outcomes 6. In that regard, the assignment contains questions that assess: 6) Learning of JavaScript language to be able to program sophisticated client-side validation routines.
Assessment Due Date	**Week 13**
Return Date to Students	Week 14 (Evaluated copies will be shown to students)
Weighting	1.5%
Assessment Criteria	
Referencing Style	N/A
Submission	Quiz will be for duration of 15-30 minutes in class.
Learning Outcomes Assessed	6. Expand your understanding of JavaScript language to be able to program sophisticated client-side validation routines.

Assessment Title	**Assignment-1**
Task Description	This assignment is aligned to learning outcomes 2. In that regard, the assignment contains questions that assess: 2) Fundamentals of Internet Technology
Assessment Due Date	**Week 13**
Return Date to Students	Week 14 (Evaluated copies will be shown to students)
Weighting	1.5%
Assessment Criteria	
Referencing Style	American Psychological Association(APA) Style
Submission	Must be submitted at beginning of class
Learning Outcomes Assessed	2. Students will understand the fundamentals of Internet Technology

Assessment Title	**Assignment-2**
Task Description	This assignment is aligned to learning outcomes 5. In that regard, the assignment contains questions that assess: 5) Client-side web programming and its techniques.
Assessment Due Date	**Week 11**
Return Date to Students	Week 12 (Evaluated copies will be shown to students)
Weighting	1.5%
Assessment Criteria	

Referencing Style	American Psychological Association(APA) Style
Submission	Must be submitted at beginning of class
Learning Outcomes Assessed	5. To understand the client-side web programming and its techniques.

Assessment Title	**Assignment-3**
Task Description	This assignment is aligned to learning outcomes 7. In that regard, the assignment contains questions that assess: 7) Program and development of moderately complex interactive client side website.
Assessment Due Date	**Week 14**
Return Date to Students	Week 14 (Evaluated copies will be shown to students)
Weighting	1.5%
Assessment Criteria	
Referencing Style	American Psychological Association(APA) Style
Submission	Must be submitted at beginning of class
Learning Outcomes Assessed	7. To be able to program moderately complex interactive client side website.

FINAL EXAMINATION

Date	**During University Scheduled Examination period. Will be announced by the Exam Committee**
Weighting	**40%**
Length	3 Hours.
Details	No Calculator Permitted Exam Question Paper will be given to students. Exam will be Closed Books.
Learning Outcomes Assessed	1. Give the student an overview of the Web platform. 2. Students will understand the fundamentals of Internet Technology 3. Understand the Internet security issues and implement client requirements. 4. They will be able to understand the basic Internet services, design and publish simple web sites. 5. To understand the client-side web programming and its techniques. 6. Expand your understanding of JavaScript language to be able to program sophisticated client-side validation routines. 7. To be able to program moderately complex interactive client side website.