Dillard College of Business Administration
SYLLABUS: Web Application Development
MIS 4113, Section 201
Spring Semester 2019
DB 335
TTR 9:30am – 10:50am

Contact Information:

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Office Hour: also by appointment

Spring 2019	Monday	Tuesday	Wednesday	Thursday	Friday
Office Hour	9:00am – 12:00pm	11:00am – 12:00pm	9:00am – 12:00pm	11:00am – 12:00pm	9:00am – 12:00pm
MIS 4113		9:30 – 10:50am		9:30 – 10:50am	
MIS 5113	5:30 – 6:50pm				

Course Materials:

1. *Fundamentals of Web Development*, 2nd edition, ISBN 9780134481265, by Connolly and Hoar. You can obtain either paper or digital version of the textbook.
2. Lecture notes and other additional materials will be provided in class and on D2L.
3. D2L access to Course Content, Assessment, Assignment, Discussion, My Grades, Mail, Announcement, etc. I will use D2L as the major communication channel for the class.
4. Companion website of the textbook for lab exercises
5. Website access of Codecademy for online learning units.

Course Description:

An extended introduction to dynamic web application design including advanced programming logic and implementation using server-side scripting language. The course will provide instruction in the advanced manipulation of data and the programming of sophisticated data-intensive applications. In this course emphasis will be placed on developing web-based business applications. Major topics covered include interface design, database access, web service concepts, and programming management.

Course Prerequisite:

MIS 3113 or consent of the instructor.

Learning Goals

I. **General Learning Goals**:

- ***Problem Solving and Decision Making.*** Various online learning units, lab exercises, and chapter projects from the textbook and other resources will be the assessment means. These assessments require students to utilize the web programming techniques, gather relevant formation, and develop related web applications. These graded assessments are a portion of the overall course grade.
- ***Technology Utilization.*** Extensive use is made of business application technology throughout the course. Web application related technology (HTML, CSS, JavaScript, PHP, and MySQL) will be the major tools. Students will also demonstrate their ability to use common business computer applications by utilizing Microsoft applications.

These general learning goals are among those established by the Dillard College of Business Administration. General learning goals represent the skills that graduates will carry with them into their careers. While assessing student performance in obtaining these general learning goals, the Dillard College is assessing its programs. The assessments will assist us as we improve our curriculum and curriculum delivery.

Course Specific Learning Goals: After completing this course, students should be able to:
- Use cascading style sheets to create style standards for a web site.
- Able to create a navigational framework that matches the content and genre of the site.
- Explain separation of contents as it applies to the design and implementation of a web site
- Describe the issues involved in developing a web interface.
- Summarize the need and issues involved in web site implementation and integration.
- Design and implement a web interface
- How server-side technology works
- Develop with server-side technology
- Use of databases in web applications

Course Policies

Missed Examinations and Assignments Policy: T**here is no provision for late submittals of either in this course**. Only students with conflicts involving authorized University activities or having verified medical circumstances may ask in advance for exception to this policy. Written verification in either case is mandatory. Arrangements must be made in advance if at all possible. In all cases, the instructor must be contacted no later than the day of the scheduled exam or no makeup will be allowed. At the instructor's discretion, a deduction may be assessed for a late exam or late assignment.

Grading and Evaluation: Student's performance will be assessed using the following elements.
1. **Exams:** Each exam will consist of multiple-choice and/or true/false questions, some short answer, and/or programming codes. Exams will cover assigned chapters, lab exercises, online Codecademy learning units, and chapter projects. Students are responsible for all assigned materials, even if it is not directly discussed in class. Exams are open book and open references. The exam will also be **auto submitted** once time runs out, therefore, please save your answers often and pay special attention to the timing.

2. **Chapter Projects**: For several course chapters, there will be a mini project related to each chapter. This is usually a challenging part of the assignments. You might need to prepare the project early. Please complete the project on time and submit in the D2L Dropbox.

3. **Lab Exercises**: The textbook has included lots of lab exercises to match with the content. Lab exercise has step by step instructions. We will work together on the lab exercises using class time.

4. **Codecademy online learning units**: You need to sign up or log in to the Codecademy website, and complete the assigned learning units. We plan to cover learning units of Make a Website, Responsive Design, and jQuery. Each of the learning unit takes hours of study. This is a semester long work to enhance your basic understanding of web app environment, so pace yourself and work on the tutorials on a daily basis. Some lessons are easier than others, but others can be very difficult. This is for completion only, so try your best.

5. **Attendance and participation:** Absences will be excused only for approved school trips and serious health issues. Class participation in all kinds of the formats (questions, answers, comments, and feedback) is highly encouraged to achieve reasonable participation grade. Further, ad hoc quizzes might be administrated.

Points will be allocated using the following scheme.

ELEMENT	POINTS		GRADES WILL BE ASSIGNED USING THE FOLLOWING SCHEME.
Exams	40	A	90-100
Chapter projects	20	B	80-89
Codecademy online tutorials	10	C	70-79
Lab exercises	20	D	60-69
Attendance and participation	10	F	<= 59
Total Points	100		

Course Content and Outline: See the attached content outline/schedule.

Academic Integrity
With regard to academic honesty, students are referred to the "Student Honor Creed" in Midwestern State University Undergraduate Catalog. Academic dishonesty (cheating, collusion, and plagiarism) is taken seriously and will be dealt with according to the official procedures. The minimum penalty is an "F" in this course and referral to the Dean of Students for disciplinary action, which may result in expulsion from the University. **All work is expected to be done individually unless stated otherwise. Sharing computer files for any purpose in assisting another student is considered a violation of academic integrity for BOTH students.**

Americans with Disabilities Act
If a student has an established disability as defined in the **Americans with Disabilities Act** and would like to request accommodation, that student should please see me as soon as possible (i.e., within the first two weeks of the semester). This class follows the guidelines suggested by the Center for Counseling and Disabilities Services for those students who qualify for disability services. See Midwestern State University Undergraduate Catalog.

Campus Carry

Senate Bill 11 passed by the 84th Texas Legislature allows licensed handgun holders to carry concealed handguns on campus, effective August 1, 2016. Areas excluded from concealed carry are appropriately marked, in accordance with state law. For more information regarding campus carry, please refer to the University's webpage at Campus Carry. If you have questions or concerns, please contact MSU Chief of Police Patrick Coggins at patrick.coggins@mwsu.edu.

Syllabus Change Policy
This syllabus is a guide for the course and is subject to change. Syllabus changes will be communicated via D2L.

Tentative schedule (See attached): Please keep this syllabus as a reference! Students are responsible for all information contained in the syllabus and for any changes to the syllabus, which will be communicated through D2L or in class.

Week	Date	Day	Chapter	Topic	Due
MIS 4113 Web Application Development					
Course Content Outline & Schedule of Topics/Exams					
1	15-Jan	T	1	Syllabus, Schedule and Course Introduction	Self Introduction, Codecademy Set Up
	17-Jan	R	2	How the Web Works	
2	22-Jan	T		Lab exercise	
	24-Jan	R	3	Introduction to HTML	
3	29-Jan	T		Lab exercise	
	31-Jan	R	4	Introduction to CSS	
4	5-Feb	T		Lab exercise	Chapter 3 Project
	7-Feb	R	5	HTML Tables and Forms	
5	12-Feb	T	5	HTML Tables and Forms	
	14-Feb	R		Lab exercise	
6	19-Feb	T		**Exam 1 Chapter 1-5**	
	21-Feb	R	8	JavaScript 1: Language Fundamental	**Codecademy - Make a Website**
7	26-Feb	T	8	JavaScript 1: Language Fundamental	
	28-Feb	R		Lab exercise	Chapter 5 Project
8	5-Mar	T	9	JavaScript 2: Using JavaScript	
	7-Mar	R	9	JavaScript 2: Using JavaScript	
9	12-Mar	T		Lab exercise	
	14-Mar	R	10	JavaScript 3: jQuery	
10	19-Mar	T		No Class - Spring Break	
	21-Mar	R			
11	26-Mar	T	10	JavaScript 3: jQuery	
	28-Mar	R		Lab exercise	Chapter 9 Project
12	2-Apr	T		**Exam 2 Chapter 8-10**	
	4-Apr	R	11	Introduction to Server Side Development with PHP	
13	9-Apr	T		Introduction to Server Side Development with PHP	**Codecademy - jQuery**
	11-Apr	R		Lab exercise	
14	16-Apr	T	12	PHP Arrays and Superglobals	
	18-Apr	R	12	PHP Arrays and Superglobals	
15	23-Apr	T		Lab exercise	
	25-Apr	R	14	Working with Databases	Chapter 12 Project
16	30-Apr	T	14	Working with Databases	
	2-May	R		Lab exercise	Chapter 14 Project
Final	7-May	T	8:30-10:00	**Exam 3 Chapter 11, 12, 14**	**Codecademy - Responsive Design**