

Syllabus
ITEC 3280-01 – Web Programming
Fall 2015 – On Campus

Section 1 – General Course Information

Course CRN#: 84467

Instructor Information

Instructor: Myungjae Kwak, Ph.D.
Office: PSC 314
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Tentative Office Hours: Tuesday 1:00 – 4:00 pm
Wednesday 1:00 – 4:00 pm
Thursday 1:00 – 3:00 pm
or by appointment

Classroom: WRC1 123

Section 2 – Standard Course Information

Hours: 3

Course Description

This course is an introduction to the client and server-based Web processing environments; coverage of the browser document object model, dynamic formatting, and styling, browser scripting languages, user interaction, and personalization, data validation and processing of browser-side data structures, data exchange languages, and database access.

Prerequisites

At least a "C" in both (ITEC 2380 and ITEC 2270)

Textbook

No textbook needed

All materials will be provided in a course web site. (<http://itwebtutorials.mga.edu/default.aspx>)

Required Software

Notepad++ (most recent version) <http://notepad-plus-plus.org/>

XAMPP <http://www.apachefriends.org/en/xampp.html>

Latest versions of Internet Explorer, and Mozilla Firefox

Course Outcomes

The purpose of this course is to provide students with an introduction to client and server-based Web scripting and dynamic Web application development. Students develop various Web applications and gain knowledge of current and emerging technologies and practices. At the completion of the course, students should be able to:

- Describe the architecture of client-side and server-side web applications
- Identify the appropriate programming environment for developing dynamic client-side and server-side web applications.
- Plan, develop, debug, and implement interactive client-side and server-side web applications.
- Identify the tools needed to create dynamic client-side and server-side web applications.
- Evaluate and validate web applications for conformance to the latest W3C markup standards.
- Analyze and evaluate web applications for conformance to section 508 and W3C accessibility standards.
- Choose between server-side and client-side programming, depending on the task to be performed.

Topics

- JavaScript
- DOM
- XML
- PHP
- JQuery

Section 3 – Course Assessment Information

Course Assessments

Students are evaluated on web programming assignments, exams, and a final project. Assignments require coding and scripting of Web pages to illustrate course content.

Homework Programming Assignments

Thirteen (13) homework assignments are worth 130 points toward the student's overall course grade. Homework assignments must be uploaded to the student's Web directory on the campus server by midnight of the due date listed on the class schedule. The student must submit the URL via the Dropbox in BrightSpace(D2L) in order to receive credit. If you don't have your Web directory, please refer to the following URL (<http://www.mga.edu/technology/webdav.aspx>).

Hands-on Project

A hands-on project is worth 100 points toward the student's overall course grade. Points will be given based on the creativity and completeness of the outcome. Detailed project schedule and evaluation criteria will be announced in BrightSpace (D2L).

Assignments Submission Policy

To obtain full credit for each assignment or project, the student must submit the assignment by its deadline. If an assignment or project is submitted past the deadline, 10% penalty will be applied for each 24 hour delay and the Dropbox will be closed after 10 days.

Exams

Midterm exam is worth 60 points. They are to be completed in BrightSpace (D2L) before the due date indicated in the syllabus. Please do not wait until the last minute to take exams.

Online Discussions

Thirteen (13) online discussions are worth 65 points. You are expected to discuss given topics, post questions, or answer others' questions in BrightSpace (D2L) discussion forums.

Grading Policy (Total 355 points)

- Homework Assignments (13 × 10 pts = 130 pts)
- Midterm Exam (1@60 pts = 60 pts)
- Discussions (13@5pts = 65 pts)

- Project (100 pts)

Grading Scale

- A: 320 – 355 pts
- B: 284 – 319 pts
- C: 249 – 283 pts
- D: 213 – 248 pts
- F: fewer than 212 pts

Section 4 – Standard Course Policies

Attendance Policy:

The classroom experience is a vital part of college education. Interaction with instructors and other students is an important element of the learning process. Students are expected to attend all class sessions. Students who do not attend classes on a regular basis are subject to reassessment of financial aid eligibility. Students who earn a failing grade in a class due to excessive absenteeism may receive a grade of "FA." This grade will become a part of the students' permanent academic record.

Students whose number of absences is more than twice the number of class meetings per week may be assigned a failing grade for the course at the discretion of the instructor. Students who have more absences than the number of class meetings per week but less than twice the number of class meetings per week may be penalized at the discretion of the instructor. Students who have absences which are less than or equal to the number of class meetings per week will not be penalized.

Individual faculty members have the right to use the institutional policy exactly as is or to establish additional attendance policies and/or penalties. However, all faculty attendance policies must be included in this section of the syllabus. Faculty are expected to maintain an attendance record for all classes.

Student Withdrawal Policy

Students who wish to withdraw from the College must complete the Withdrawal Form, obtaining the required signature from the advisor, and submitting it to the Office of the Registrar at the Macon campus or the administrative offices at other campuses. Withdrawal is not complete until all withdrawal procedures have been properly executed.

Policy on Academic Misconduct

Cheating and plagiarism are acts of academic dishonesty. They refer to the use of instructor's versions of books, unauthorized notes, or otherwise securing help in a test; copying tests, assignments, reports, or term papers; representing the work of another as one's own; collaborating, without authority, with another student during an examination or in preparing academic work; or otherwise practicing scholastic dishonesty. Students caught cheating on any assignment or exam will be given an F for the course and are at risk of being dismissed from the college.

The MGSC Policy on Academic Misconduct is available at

http://www.mga.edu/student-affairs/docs/MGSC_Student_Handbook.pdf

This syllabus is provided for general guidance on course activities and expectations. The instructor reserves the right to modify the syllabus in response to changing student needs or pedagogical circumstances. Changes are announced in class and posted on the class Web pages.

Disability Accommodations

“Students seeking academic accommodations for a special need must contact Middle Georgia State College Office of Disability Services in Macon at (478) 471-2985 or in Cochran at (478) 934-3023. Students may also visit the Disability Services Office in room 266 of the Student Life Center on the Macon campus or in Sanford Hall on the Cochran campus.”

Section 5 – Instructor-specific Policies

Homework Assignments

Homework assignments are typically hands-on coding for concepts that your instructor thinks are important. You can discuss with your classmates, but outcomes should be different.

Hands-on Project

The hands-on application development project requires some amount of time. Topics and details will be released in BrightSpace (D2L). You are recommended to work on the project diligently after it is released to submit the outcome on time.

Communicating with Instructor

There are five ways to communicate with me. They are face-to-face, MGA email, BrightSpace (D2L) email or discussion forms, and phone in the order of my preference. I will check the emails and discussion forums periodically and try to reply to your post or email as soon as I can.

Especially, when you email me using your Middle Georgia State College e-mail account, please make sure that your emails should have a meaningful subject line that reads "ITEC 3280-01B: Short description of the request.

Section 6 – Tentative Course Schedule and Outline

ITEC 3280-01

As of 8/19/2015

The schedule below contains class activities, assignments and deadlines. Note that the course schedule is “tentative” and subject to change based on student and/or pedagogical needs. All changes will be announced and posted on the course website.

| <i>Class/Date</i> | <i>Activities</i> | <i>Notes/Due Dates</i> |
|----------------------------|--|---|
| Week 1 (Aug 17 – 23) | Introductions Syllabus Review Tools for developing client-side web applications Accessing Web Folders JavaScript – Introduction, Data Operations, Basic Input and Output http://itwebtutorials.mga.edu/js/chp1/default.aspx http://itwebtutorials.mga.edu/js/chp2/default.aspx | <ul style="list-style-type: none"> - Install required software - Assignment 1 – Due 8/27 - Discussion 1 – Due 8/27 |
| Week 2 (Aug 24 – 30) | JavaScript – Basic Input and Output, Decision Making http://itwebtutorials.mga.edu/js/chp3/default.aspx http://itwebtutorials.mga.edu/js/chp4/default.aspx | <ul style="list-style-type: none"> - Assignment 2 – Due 9/3 - Discussion 2 – Due 9/3 |
| Week 3 (Aug 31 – Sep 6) | JavaScript – Iterations and Arrays http://itwebtutorials.mga.edu/js/chp5/default.aspx http://itwebtutorials.mga.edu/js/chp6/default.aspx | <ul style="list-style-type: none"> - Assignment 3 – Due 9/10 - Discussion 3 – Due 9/10 |
| Week 4 (Sep 7 – Sep 13) | JavaScript – Iterations and Arrays http://itwebtutorials.mga.edu/js/chp5/default.aspx http://itwebtutorials.mga.edu/js/chp6/default.aspx | <ul style="list-style-type: none"> - Assignment 4 – Due 9/17 - Discussion 4 – Due 9/17 |
| Week 5 (Sep 14 – 20) | JavaScript – Browser Objects http://itwebtutorials.mga.edu/js/chp7/default.aspx | <ul style="list-style-type: none"> - Assignment 5 – Due 9/24 - Discussion 5 – Due 9/24 |
| Week 6 (Sep 21 – 27) | JavaScript – Document Objects http://itwebtutorials.mga.edu/js/chp8/default.aspx | <ul style="list-style-type: none"> - Assignment 6 – Due 10/1 - Discussion 6 – Due 10/1 |

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|-----------------------------|---|--|
| Week 7 (Sep 28 – Oct 4) | Midterm Exam | - Exam will be available in D2L from <u>10/3 to 10/5</u> |
| Week 8 (Oct 5 – 11) | JavaScript – Forms, Dynamic Styles, Error Handling http://itwebtutorials.mga.edu/js/chp9/default.aspx http://itwebtutorials.mga.edu/js/chp10/default.aspx http://itwebtutorials.mga.edu/js/chp11/default.aspx | - Assignment 7 – Due 10/15 - Discussion 7 – Due 10/15 |
| Week 9 (Oct 12 – 18) | XML, DTD, and Schemas http://itwebtutorials.mga.edu/xml/default.aspx | - Assignment 8 – Due 10/22 - Discussion 8 – Due 10/22 |
| Week 10 (Oct 19 – 25) | PHP Basics http://itwebtutorials.mga.edu/php/chp1/default.aspx http://itwebtutorials.mga.edu/php/chp2/default.aspx http://itwebtutorials.mga.edu/php/chp3/default.aspx | - Assignment 9 – Due 10/29 - Discussion 9 – Due 10/29 |
| Week 11 (Oct 26 – Nov 1) | PHP Control Statements http://itwebtutorials.mga.edu/php/chp4/default.aspx | - Assignment 10 – Due 11/5 - Discussion 10 – Due 11/5 |
| Week 12 (Nov 2 – 8) | PHP Form Processing http://itwebtutorials.mga.edu/php/chp7/default.aspx | - Assignment 11 – Due 11/12 - Discussion 11 – Due 11/12 |
| Week 13 (Nov 9 – 15) | PHP Database I http://itwebtutorials.mga.edu/php/chp9/default.aspx | - Assignment 12 – Due 11/19 - Discussion 12 – Due 11/19 |
| Week 14 (Nov 16 – 22) | PHP Database II http://itwebtutorials.mga.edu/php/chp9/default.aspx | - Assignment 13 – Due 12/3 - Discussion 13 – Due 12/3 |
| Week 15 (Nov 23 – 29) | Thanksgiving Holidays – no class | |
| Week 16 (11/30 – 12/6) | jQuery http://itwebtutorials.mga.edu/js/chp12/default.aspx | |
| Week 17 (12/7 –) | Final Project | - Final project due by <u>Midnight, 12/11 (Fri)</u> |