MANSFIELD UNIVERSITY
CIS 3304 COURSE SYLLABUS

Revised 10/30/2014

GENERAL INFORMATION

Course number: CIS 3304
Course title: Advanced Web Design
Credit hours: 3
Term: Fall, January 21 – May 9, 2014
Class meeting time and location: online
College website: http://mansfield.edu/
Course website: https://mansfield.desire2learn.com/ for syllabus, notes, assignments, and the class
discussion board

INSTRUCTOR INFORMATION

Instructor name: John Phillips
Instructor office location: Elliott 205 C
Instructor office hours: online at http://faculty.mansfield.edu/jphillip/
Instructor office telephone: 570-662-4554 (however, it is best to contact me via e-mail)
Instructor e-mail address: jphillip@mansfield.edu

COURSE INFORMATION

Course Description

This course introduces modern techniques in advanced web design. Topics include advanced CSS
and HTML, JavaScript, AJAX, DOM, advanced graphic elements for web design, and using forms
to acquire input. Other advanced topics may be discussed, including Rich Internet Applications and
server-side development.

Prerequisite: CIS-3303; and CIS-1115 or CIS-1112 or CIS-1109

Textbook

**Equipment and Supplies**

Access to the Internet is required either using your own computer or by using a computer in the school's computer lab. You should keep a backup copy of all work you do on a USB drive or other suitable media.

I strongly suggest you backup all of your work using dropbox.com. Shift-click this link to sign up for a free Dropbox account and we will both get extra storage space [http://db.tt/1lqMRmTn](http://db.tt/1lqMRmTn).

**Course Objectives and Learning Outcomes**

At the end of the course the student will be able to (assessment method in parentheses):

1. write a client-side web program using JavaScript (programming assignment)
2. write a JavaScript program that processes a form (programming assignment)
3. write a server-side web program using PHP (programming assignment)
4. write a web program that accesses a MySQL database (programming assignment)
5. design, develop, and document a web site that makes appropriate use of HTML, CSS, JavaScript, PHP, and other advanced web technologies to solve a real world problem (project)

**Program Objectives and Learning Outcomes - Computer Science Track**

The above course objectives directly support the following CIS / CS program objectives as listed on the CIS web site at [http://mansfield.edu/cis/what-can-i-study/computer-science/](http://mansfield.edu/cis/what-can-i-study/computer-science/).

1. To provide graduates with a thorough comprehension of the key principles of computing and the application of those principles.

**Related Student Learning Outcomes:**

1-2. Students will demonstrate proficiency in programming using a high-level language [course learning outcomes 1-5]
1-4. Students will demonstrate knowledge of several programming language paradigms [course learning outcomes 1-5]
1-5. Students will demonstrate understanding of foundational programming language concepts [course learning outcomes 1-5]
1-7. Students will apply principles and practices for software development, including problem analysis, software design, and development using current industry-standard programming languages and tools [course learning outcomes 1-5]
1-8. Students will employ these principles in solving a variety of problems [course learning outcomes 1-5]
2. To provide graduates with an appropriate augmenting framework of applicable knowledge and skills from the mathematical, scientific, and communication disciplines.

   **Related Student Learning Outcomes:**

   2-3. Students will demonstrate an ability to communicate effectively, both orally and in written form, with a range of audiences [course learning outcome 5]

4. To prepare students for a successful career in computing and related fields.

   **Related Student Learning Outcomes:**

   4-2. Students will demonstrate the knowledge and capabilities necessary for pursuing a professional career [course learning outcomes 1-5]

**Program Objectives and Learning Outcomes - Information Systems Track**

The above course objectives directly support the following CIS / IS program objectives as listed on the CIS web site at [http://mansfield.edu/cis/what-can-i-study/information-systems/](http://mansfield.edu/cis/what-can-i-study/information-systems/).

1. To provide graduates with a thorough comprehension of the key principles of information systems and the application of those principles.

   **Related Student Learning Outcomes:**

   1-2. Students will demonstrate proficiency in programming using a high-level language [course learning outcomes 1-5]
   1-8. Students will employ these principles in solving a variety of problems [course learning outcomes 1-5]

2. To provide graduates with an appropriate augmenting framework of applicable knowledge and skills from the mathematical, business, and communication disciplines.

   **Related Student Learning Outcomes:**

   2-3. Students will demonstrate an ability to communicate effectively, both orally and in written form, with a range of audiences [course learning outcome 5]

4. To prepare students for a successful career in information systems and related fields.

   **Related Student Learning Outcomes:**

    4-2. Students will demonstrate the knowledge and capabilities necessary for pursuing a professional career [course learning outcomes 1-5]
Collection of Student Work

Student work may be collected for assessment purposes and for other academic-oriented uses.

How This Online Course Works

Each week you will be given an assignment. Typically the assignment will involve reading the textbook and class notes, watching an instructional video, taking an online quiz over terminology, writing a web-oriented program, placing the program on the class web server, and finally participating in discussions and/or peer reviews of the programs in the Desire2Learn forums.

If you have a problem with the assignment you can ask questions in the “Helping Each Other” forum on Desire2Learn and/or you can email the instructor directly. However, it is best to ask most questions in the forum in case another student is having a similar problem.

Grading Scale and Policy

A &ge; 90%, B &ge; 80%, C &ge; 70%, D &ge; 60%, F < 60%

In addition, the instructor may choose to further differentiate grades with plus and minus subdivisions as outlined in the catalog.

<table>
<thead>
<tr>
<th>Course Item</th>
<th>% of Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekly web programming assignments</td>
<td>20</td>
</tr>
<tr>
<td>Weekly peer reviews and/or discussion</td>
<td>20</td>
</tr>
<tr>
<td>Weekly online quizzes</td>
<td>20</td>
</tr>
<tr>
<td>Course project</td>
<td>20</td>
</tr>
<tr>
<td>Online final exam</td>
<td>20</td>
</tr>
</tbody>
</table>

Late Work Policy

Late work will automatically lose points for each week late unless it is an unavoidable officially excused and documented emergency absence. Work that is submitted after the announced deadline will be considered late. No work will be accepted after the last regular day of classes.

Academic Integrity

The integrity of all scholarly work is at the foundation of an academic community. Students are expected to do their own academic work. Dishonesty in academic work, including cheating, academic misconduct, fabrication, or plagiarism is unacceptable. Faculty are expected to instruct students in ways of avoiding these forms of academic dishonesty. Faculty are also responsible for assessing and reporting all charges of academic dishonesty to the Office of the Provost. See the policy and procedure listed at: [http://www2.mansfield.edu/academic-affairs/faculty-resources/forms-and-procedures.cfm](http://www2.mansfield.edu/academic-affairs/faculty-resources/forms-and-procedures.cfm) under “Academic Integrity Policy.”
Copyright

The University fully supports the Copyright Laws of the United States. Respect for intellectual labor and creativity is vital to academic discourse and enterprise. This principle applies to any original work in any tangible medium of expression. Images displayable on computer screens, computer software, music, books, magazines, journals, photographs, and articles are among items subject to copyright. A work need not be explicitly labeled with a copyright notice to be afforded copyright protection. For more information on Copyright please consult the Mansfield University Copyright Information website: http://mansfield.libguides.com/copyright.

Students Requesting Academic and/or Access Accommodations

Students with documented learning disabilities, physical challenges, or other significant medical conditions that may affect their learning in this course should meet with the University’s Disability Advisor in the Department of Academic and Human Development (141 South Hall, Phone: 662-4436) as soon as possible. The Disability Advisor will arrange to provide the instructor with an appropriate letter so that we may serve your particular needs more effectively. If you have a disability that requires classroom or testing accommodations, the advisor will also clarify appropriate arrangements.

Student Consumer Rights and Responsibilities

The Higher Education Opportunity Act (Public Law 110-315) (HEOA) was enacted on August 14, 2008, and reauthorizes the Higher Education Act of 1965, as amended (the HEA). The HEOA (2008) requires colleges and universities to provide students with information necessary to make informed decisions concerning their educational experiences. Mansfield University strives to serve its students fairly and equitably. The following MU website provides an inclusive list by topic of student consumer rights and responsibilities: http://mansfield.edu/HEA/

Withdrawal Policy for Individual Courses

The last day to withdraw from a College course with a "W" grade is published in the Academic Calendar. It is the responsibility of the student to complete and submit the necessary forms to the Registrar's Office. An official withdrawal would entitle the student to a grade of "W" in the course.

University Policies

All policies specified in this syllabus, and other policies not mentioned here will abide by University Policies (http://catalog.mansfield.edu/content.php?catoid=18&navoid=359).

Syllabus Change Policy

The instructor reserves the right to make changes to this syllabus and class schedule as the course progresses.
## Tentative Class Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction to Dynamic Web Content Setting up a Development Server</td>
<td>chapter 1-2</td>
</tr>
<tr>
<td>2</td>
<td>Introduction to PHP Expressions and Control Flow in PHP</td>
<td>chapter 3-4</td>
</tr>
<tr>
<td>3</td>
<td>PHP Functions and Objects</td>
<td>chapter 5</td>
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<tr>
<td>4</td>
<td>PHP Arrays Practical PHP</td>
<td>chapter 6-7</td>
</tr>
<tr>
<td>5</td>
<td>Introduction to MySQL Mastering MySQL</td>
<td>chapter 8-9</td>
</tr>
<tr>
<td>6</td>
<td>Accessing MySQL Using PHP</td>
<td>chapter 10</td>
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<td>7</td>
<td>Form Handling</td>
<td>chapter 11</td>
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<tr>
<td>8</td>
<td>Cookies, Sessions, and Authentication</td>
<td>chapter 12</td>
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<tr>
<td>9</td>
<td>Exploring JavaScript Expressions and Control Flow in JavaScript</td>
<td>chapter 13-14</td>
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<tr>
<td>10</td>
<td>JavaScript Functions, Objects, and Arrays</td>
<td>chapter 15</td>
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<tr>
<td>11</td>
<td>JavaScript and PHP Validation and Error Handling</td>
<td>chapter 16</td>
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<tr>
<td>12</td>
<td>Using Ajax</td>
<td>chapter 17</td>
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<tr>
<td>13</td>
<td>Introduction to CSS</td>
<td>chapter 18</td>
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<tr>
<td>14</td>
<td>Advanced CSS with CSS3</td>
<td>chapter 19</td>
</tr>
<tr>
<td><strong>Finals Week</strong></td>
<td>Final Exam: Online</td>
<td></td>
</tr>
</tbody>
</table>