INEW 2434 – Advanced PHP Programming

Course Syllabus – Spring 2016

Instructor Information:
Instructor: Jack Hagan
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E-Mail: jhagan@dcccd.edu

Office Hours: TBD

Important Contacts:
For problems logging in, accessing the web site or other technical issues:
   Technical Support - call 972-669-6402 or http://dallastelecollege.dcccd.edu/techSupport.html
General questions about on-line Computer Information Technology courses offered through Brookhaven:
   Ms. Tarrilyn Wall - call 972-860-4746 or E-Mail twall@dcccd.edu or
   Toby Lackey - call 972-860-4567 or E-Mail tlackey@dcccd.edu

Prerequisites:
Intermediate Web page generation skills or instructor approval.
Programming for web authoring. Includes industry-standard languages and data stores. This course may be repeated if topics and learning outcomes vary. (3 Lec., 4 Lab.)

Course Overview:
This course teaches the principles of programming using the PHP language. Students will learn how to control code with conditions and functions, work with XML and content management systems, use MySQL to create databases, connect to databases within PHP and build a three-tiered data application.

Course Objective:
The objective is to explore more advanced programming skills using the PHP programming language. This course will focus on the knowledge and skills necessary for creating web applications using PHP and integrating with databases using MySQL. The Apache web server will also be covered.

Learning Outcome:
Successful completion of this course will enable the student to:

• Design and write PHP programs
• Understand MVC
• Develop modularized PHP applications
• Incorporate advanced database concepts into a PHP application
• Write Object-oriented programming applications using PHP
• Describe and use OOP objects and techniques including classes, inheritance, overrides, abstract classes, static classes, and namespaces
• Differentiate between design patterns and when to use each one
• Use built-in classes such as PDO, Exceptions and the Standard PHP Library
• Incorporate Web Services technologies into a web application
• Use a PHP framework
Course Outline:

- Week 1: Orientation; syllabus, PHP review, PC setup
- Weeks 2-3: Advanced PHP techniques, modularization and MVC (Model-View-Controller)
  Lab A
- Weeks 4-6: Object Oriented Programming
  Lab B
- Week 7: Design Patterns
  Lab C
- Weeks 8-9: Existing classes
  Lab D
- Exam 1
- Week 10: Web Applications
  Lab E
- Weeks 11-12: Performance and Testing
  Lab F
- Weeks 13-16: PHP Framework
  Final Exam
  Final Project

Course Materials:

**Book:**


**Grading Policy:**

You will accumulate course points for work done as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Maximum Points</th>
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<tbody>
<tr>
<td>Introduction Post</td>
<td>10</td>
</tr>
<tr>
<td>2 Exams @ 100 points each</td>
<td>200</td>
</tr>
<tr>
<td>1 Projects @ 200 points</td>
<td>200</td>
</tr>
<tr>
<td>6 Lab Assignments @100 points</td>
<td>600</td>
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<td></td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>1010</strong></td>
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Your final course grade will be determined as shown:

<table>
<thead>
<tr>
<th>Points Earned</th>
<th>Final Grade</th>
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</thead>
<tbody>
<tr>
<td>900-1010</td>
<td>A</td>
</tr>
<tr>
<td>800-899</td>
<td>B</td>
</tr>
<tr>
<td>700-799</td>
<td>C</td>
</tr>
<tr>
<td>600-699</td>
<td>D</td>
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Late Points

A late penalty will be assigned to any assignment turned in late unless the instructor has been notified with a valid reason prior to the assignment due date. A penalty of 5 points per week will be assessed on any HW or Lab assignment that is turned in late. Late projects will be assessed a penalty of 20 points per week. After 1 month, any missing assignments will receive a grade of 0.

Your grade point total is available under My Grades in eCampus.

Last date to withdraw with a W: Tuesday, April 18, 2016

Your instructor reserves the right to modify the course requirements, assignments, grading procedures and other related policies as circumstances dictate. Additional exam or course information may be posted in the Announcements section of the course throughout the semester.

All students in this course are expected to abide by the rules and regulations as set forth in both the DCCCD Student Code of Conduct (https://www1.dcccd.edu/catalog/ss/code.cfm?loc=econ) and the DCCCD Computer User Policy (https://www1.dcccd.edu/catalog/ss/computer.cfm) Failure to comply may result in legal and/or disciplinary action.

Syllabus Addendum - Institutional Policies (http://www.brookhavencollege.edu/about/vpi/Pages/Syllabus-Addendum.aspx)