



## IT 4400 Web Application Development –Building Dynamic Websites

### General Class Information

#### Instructor Name and Contact Information:

Mike Vito  
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Subject Area and Catalog Number:  
IT 4400

Year and Term:  
Spring 2016

Class Title:  
IT 4400 Web Application Development –Building Dynamic Websites

Level (Graduate or Undergraduate):  
Undergraduate

Credit Type:  
Three semester hours

#### Class Description:

This course serves as a capstone course to be taken after all other required courses in the program. Using a project-based approach, students will develop Web applications using the PHP scripting language and MySQL database. Topics include PHP scripting, data-driven interactivity, writing secure PHP programs, and code frameworks.

#### Required Texts:

PHP Programming with MySQL, 2<sup>nd</sup> Edition  
Don Gosselin | Diana Kokoska | Robert Easterbrooks  
ISBN-10 05387458431 ISBN-13 9780538745840 | 712 Pages | Paperbound | © 2011

#### Learning Outcomes:

The successful student will be able to:

- Use the basic structure and syntax of the PHP scripting language
- Use embedded SQL to interact with a database to provide data driven Web-based applications
- Interface with a web server
- Integrate XHTML, CSS, PHP, and MySQL to build interactive Web sites
- Handle user input via form processing and URL tokens
- Perform other Web-based activities to include: authenticate users, handle cookies and sessions, and implement object-oriented programming

### Assessment Components:

Grading will be based on online participation, homework exercises, quizzes, and a project. The online participation will consist of group exercises and discussions that will be conducted via the Internet. The homework exercises will consist of questions about the readings and lecture. The following is a breakdown of each category by percent:

Participation:	10%
Homework Exercises:	60%
Project	30%
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	100%

### Delivery Mode Expectations:

This course will be conducted in a virtual classroom over the internet using UVACollab.

### Required Technical Resources and Technical Components:

Students are expected to have access to a computer with a working connection to the internet and a web browser so that they can collaborate and turn in assignments online. In addition students will be expected to install a development environment for PHP and MySQL. XAMPP and Aptana will be used in the lecture material.