

**LeMoyne-Owen College**  
**Division of Natural and Mathematical Sciences**  
**Server-Side Web Programming, ITEC 415**  
**Spring 2025**

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**Credit Hours:** Three  
**Prerequisites:** ITEC 305  
**Class Meeting:** Tues/Thurs 11:00 a.m. to 12:15 p.m., GOH114

**Syllabus**

**Texts:** *Beginning PHP 5.3*, 1<sup>st</sup> Edition, Matt Doyle,  
Publisher: Wiley Publishing, Inc., ISBN: 978-0-470-41396-8.

**Course Description:**

This course introduces server-side web programming/scripting languages covering basic programming techniques. Students will learn how to maintain state through the use of cookies, query string variables, sessions and files. Other topics include web-based data collection, form verification, database connectivity and XML. Three hours of lecture per week.

**College Graduate Competencies:**

The two college graduate competencies (CGC) that are directly addressed in Server Side Web Programming are:

1. Think creatively, critically, logically, and analytically using both quantitative and qualitative methods for problem solving.
2. Communicate effectively (listen, speak, read, and write) on formal and informal levels.

**Major Area Competency Levels:**

The college graduate competencies are developed specifically for this course through major area competency levels (MAC). By the end of this course, students should have attained proficiency in the following major area competencies:

1. Demonstration of critical and logical skills to understand how to do server side web programming (CGC#1).
2. Show the ability of describing all possible ways of solving problems in PHP (CGC#2).

**Course Objectives:**

The identified major area competencies focus on solving problems logically. Therefore, students are expected to show proficiency in the following:

- To create and use variables.
- To create and use control structures to make complex decisions.
- To create web applications.
- To maintain state through the use of cookies.
- To connect to MySQL database.

**Attendance Policy:** In accordance with college policy, virtual or face to face classroom attendance is required. The following standard will be applied:

1. If unexcused absences total 15% of the regularly scheduled class meetings, the instructor has the authority to lower the final grade by one letter.
2. If unexcused absences total 20% of the regularly scheduled class meetings, the instructor has the authority to give a failing grade.
3. Five classes of tardiness—arrival to class five minutes after class has begun—will equal one unexcused absence.
4. Students must attend at least 90% of class the session to be considered present.

**Special Notice on Attendance Policy**

The U.S Department of Education policies regarding financial aid have become strict on student attendance. It is therefore essential that LeMoyne-Owen College enforce attendance standards in order not to jeopardize the aid for all students. The following policies and procedures will therefore be enforced beginning in January 2013. Students who do not meet the attendance standards, in line with federal requirements, will not receive refund checks and part of their financial aid award may be returned to the Department of Education. The WF grade will count as an F on the transcript for grade point average (GPA) and hours attempted purposes.

## **Attendance Policy and Procedures**

1. Students who never attend class (No Shows) during the first fourteen days of class will be purged from the class roster. There will be no academic penalty or impact on the GPA or hours attempted, but if it reduces the hours of enrollment to part-time status, it may have financial aid implications.
2. Students who fail to meet the academic attendance standards and virtually have left a class at the mid-semester mark will receive a grade of WF. These are students in regular 3 credit hour who have 6 unexcused absences in a MW or TTh class and have essentially left the class as of mid-semester. This means they have not been in the class 3 or more class meetings in a row ending at the report date.

## **Classroom Policies and Procedures:**

The classroom learning experience provides opportunities for faculty and students to engage in interactive exchanges of course content. To facilitate this exchange, the following guidelines are provided:

1. Because each class session covers vital material and information, it is important that students arrive on time to each class session.
2. In order to enhance students' performance and confidence in acquiring the material, it is critical that students come to each class session prepared. This includes bringing to class required texts, supplemental materials, and assigned work, which is provided on the course outline.
3. In order to limit unnecessary distractions which would deter learning, cell phones, multi-media devices, and laptops are required to be turned off or on vibrate when class is in session, except by permission of the faculty.

Faculty reserve the right to apply penalties for noncompliance to either or all of the above guidelines.

**Assignments, Assessment and Submission Requirements:**

- Several quizzes, a mid-term test and a final comprehensive examination will be given. Some topics are in hands-on format. Others are in written format.
  - The mid-term test is to demonstrate the ability of using basics of PHP and how to apply JavaScript to PHP Documents.
  - The final comprehensive exam covers the entire course with both written and hands-on parts.
  - There are **no make-up tests** except for a valid document from a doctor; however, a note from home is not acceptable.
- Homework will be assigned frequently for students to demonstrate understanding how to use HTML, CSS, and PHP to create webpages. All files have to be uploaded to a server and students have to inform the instructor the completion of jobs. **Sending somebody else work** to the instructor will not be permitted. Duplicated homework as well as the original will be assigned a grade of "F". **Late assignments will receive penalties.**

**Technology Use:** LeMoyne-Owen College is committed to enhancing student learning through the use of a variety of applicable technology. In this course, students will use or be exposed to HTML, CSS, and PHP software.

**Demeanor:** Suitable demeanor, posture and attire are required. For guidelines and the dress code, please refer to the 2011/2012 Student Handbook (8-9; 13).

**Policies Related to Students with Disabilities:**

If you need course adaptations or accommodations because of a disability, if you have emergency medical information to share, or if you need special arrangements in case the building must be evacuated, please make an appointment with Jean Saulsberry, Director of Student Development, as soon as possible at (901) 435-1727. The Student Development Office is located in the Alma C. Hanson Student Center, Room 208.

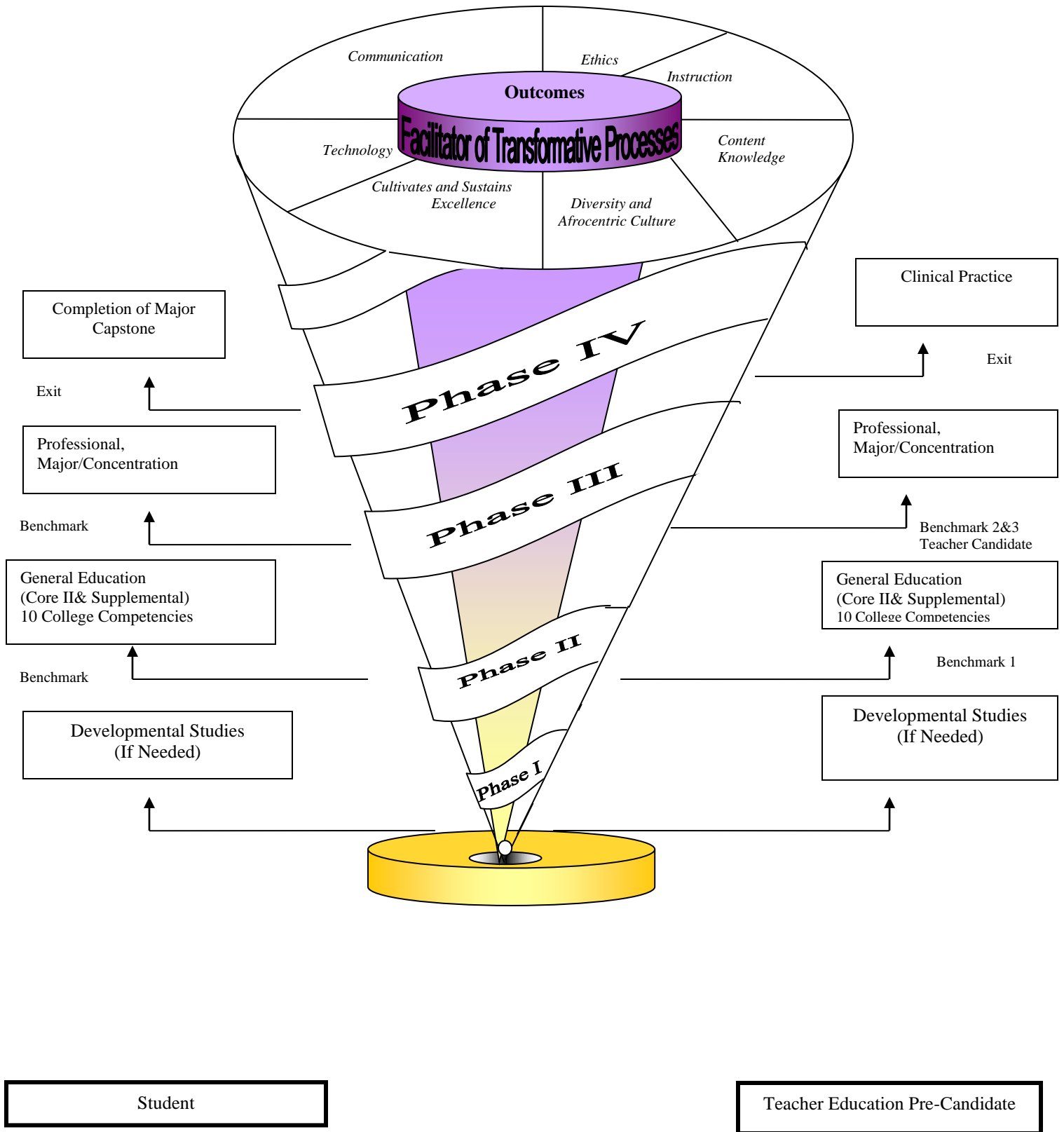
**Student Performance Evaluation and Grading Scale:**

The course grade will be calculated on the following distribution:		Grades will be recorded in numerical form until the final averages are determined at the end of the semester.	
Assignments	30%	<i>Grading Scale</i> will be	
Quizzes	20%	90 to 100	A,
Mid-term Test	25%	80 to 89	B,
Final Comprehensive Exam	25%	70 to 79	C,
The final exam score can replace the midterm test if the student wish to.		60 to 69	D,
		others	F.

## **LeMoyne-Owen College Graduate Competencies (CGC)**

**LeMoyne-Owen College graduates should be able to:**

1. Think creatively, critically, logically, and analytically using both quantitative and qualitative methods for problem solving;
2. Communicate effectively (listen, speak, read, and write) on formal and informal levels;
3. Distinguish, clarify, and refine personal values for the attainment of richer self-perception and relate those values to the value system of others;
4. Appreciate, understand, and know the foundations of the Afrocentric perspective;
5. Appreciate, understand, and know the foundations of diverse cultures in the context of a global community;
6. Appreciate, understand, now and pursue the principles, methods and subject matter that underlie the major discipline(s);
7. Accept social responsibility and provide service to humankind;
8. Maintain levels of literacy that allow them to understand the impact of science and technology on individuals, society, and the environment;
9. Attain motivational, personal management, interpersonal skills, professional development and research experience, as well as resourcefulness that will form the basis for a career and/or further educational experiences;
10. Attain critical skills, frame of reference, and understanding needed to appreciate and discriminate between artistic achievements.



**The Conceptual Framework Model**  
**Theme: Teacher as a Facilitator of Transformative Processes**

<p align="center"><b>Server Side Web Programming</b>  <b>Course Outline (tentative)</b></p>
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Weeks	Chapters	Topics / Readings
Week 1	1	Introducing PHP
	2	Your First PHP
Week 2	3	PHP Language Basics
	4	Decisions and Loops
Week 3	5	Strings
	6	Arrays
Week 4	7	Functions
Weeks 5, 6	8	Objects
Week 7	<b>Review and Mid-term Test</b>	
Week 8	9	Handling HTML Forms with PHP
Weeks 9	10	Preserving State With Query Strings, Cookies, and Sessions
Week 10	11	Working with Files and Directories
Week 11	12	Introducing Databases and SQL
Week 12	13	Retrieving Data from MySQL with PHP
Week 13	14	Manipulating MySQL Data with PHP
Week 14	<b>Final Comprehensive Exam</b>	

**Instructor reserves the right to add or subtract assignments or assessments.**