

**OHLONE COLLEGE**  
**Ohlone Community College District**  
**OFFICIAL COURSE OUTLINE**

**I. Description of Course:**

1. **Department/Course:** CS - 145
2. **Title:** PHP Programming with MySQL
3. **Cross Reference:**
4. **Units:** 4  
**Lec Hrs:** 3  
**Lab Hrs:** 3  
**Tot Hrs:** 54.00
5. **Repeatability:** No
6. **Grade Options:** Letter Grade, May  
Petition for Pass/No Pass (GP)
7. **Degree/Applicability:**  
Credit, Degree Applicable, Transferable  
- CSU (T)
8. **General Education:**
9. **Field Trips:** Not Required
10. **Requisites:**
12. **Catalog Description:**  
This is a programming class teaching the student how to access a relational database (MySQL) and generate web pages using PHP. The student does not need prior programming experience but general computer knowledge is recommended.
13. **Class Schedule Description:**  
Programming using PHP and MySQL for Web applications.
14. **Counselor Information:**  
This course is part of the Computer Studies Internet programming curriculum and the Fast-Track Certificates in Web Page Design and Computer Networking. Students interested in Web page design and Internet programming are encouraged to take this course.

**II. Student Learning Outcomes**

The student will:

1. Describe and use the features and syntax of programming language PHP
2. Create, translate, and process HTML information using the Common Gateway Information (CGI) protocol.
3. Retrieve, insert, update, and delete data from the rational database MySQL

**III. Course Outline:**

- A. Features and syntax of programming language
  1. Using variables
  2. Decision Making
  3. Control structures
  4. Arrays
  5. Obects
- B. Browser technologies and Common Gateway Information (CGI) protocol
  1. CGI protocol syntax
  2. Client and Web Server Interaction

3. Using HTML forms to send input
- C. Data from relational database MySQL
  1. Writing database queries using the Structured Query Language (SQL)
  2. Reading, inserting, and updating a database

#### IV. **Course Assignments:**

##### A. Reading Assignments

1. Reading assignments consist of relevant online and printed information.

##### B. Projects, Activities, and other Assignments

1. Discussion board participation
2. Final project involving database and online access

##### C. Writing Assignments

1. Weekly writing and debugging of computer applications

#### V. **Methods of Evaluation/Assessment:**

- A. Participation of online discussion board
- B. Quizzes to review and highlight important concepts
- C. Analysis of programming assignments to verify technique assimilation
- D. Final exam for comprehensive review of programming syntax
- E. Final project for general assessment of the course

#### VI. **Methods of Instruction:**

- A. Lecture
- B. Laboratory
- C. Discussion
- D. Demonstration
- E. Audiovisual
- F. Distance Learning
- G. Other

1. This is a hybrid and/or online course, which will make extensive use of a discussion board in order to give students opportunities for collaboration while off campus

#### VII. **Textbooks:**

##### Recommended

1. Don Gosselin *PHP Programming with MYSQL* 1 Edition, Course Technology Ptr, 2005  
ISBN: 9780619216870

##### Supplemental

#### VIII. **Supplies:**