

254 or equivalent. Recommended preparation: eligibility for ENGL 838/848. Pass/No Pass or letter grade option. (AA, CSU)

6. **Student Learning Outcomes** (Identify 1-6 expected learner outcomes using active verbs.)

Upon successful completion of the course, the student will be able to:

1. Develop server-side PHP scripts for publishing on the Web.
2. Employ control structures, functions, arrays and hashes to create robust PHP applications.
3. Design rigorous code for validation and authentication with attention to security and performance.
4. Write SQL commands and use a MySQL database to develop data-driven Web applications.
5. Create an advanced project using PHP and a MySQL database.

7. **Course Objectives** (Identify specific teaching objectives detailing course content and activities. *For some courses, the course objectives will be the same as the student learning outcomes. If this is the case, please simply indicate this in this section).*

See Student Learning Outcomes

8. **Course Content** (Brief but complete topical outline of the course that includes major subject areas [1-2 pages]. Should reflect all course objectives listed above. In addition, you may attach a sample course syllabus with a timeline.)

See attached topical outline

9. **Representative Instructional Methods** (Describe instructor-initiated teaching strategies that will assist students in meeting course objectives. Include examples of out-of-class assignments, required reading and writing assignments, and methods for teaching critical thinking skills.)

The course will include the following instructional methods as determined appropriate by the instructor:

- Lecture will be used to introduce new topics;
- Teacher will model problem-solving techniques;
- Class will solve a problem together, each person contributing a potential "next step";
- Students will participate in short in-class projects (in teacher-organized small groups) to ensure that students experiment with the new topics in realistic problem settings;
- Teacher will invite questions AND ANSWERS from students, generating discussion about areas of misunderstanding;
- Teacher will create and manage an Internet conference for discussion of course topics; and
- Students will work in small groups to solve programming assignments.

10. **Representative Methods of Evaluation** (Describe measurement of student progress toward course objectives. Courses with required writing component and/or problem-solving emphasis must reflect critical thinking component. If skills class, then applied skills.)

- Bi-weekly quizzes (short answer--from textbook material) to provide feedback to students and teacher on objectives 1 - 4;
- Assessment of student contributions during class discussion and project time to assess objectives 1-4;
- Individual programming assignments to assess objectives 1-5;
- Midterm and Final exams (short answer (textbook material), general problem solving (similar to in-class work), short program segments (similar to programming assignments) to assess objectives 1-5;

- Assessment of group participation on course projects, including peer-assessment of participation and contribution to the group effort to assess objectives 1-5.

11. **Representative Text Materials** (With few exceptions, texts need to be current. Include publication dates.)

PHP 6 and MySQL 5 for Dynamic Web Sites, Ullman, Peachpit Press ISBN 032152599X, 2007

PHP and MySQL Web Development, Welling & Thomson, Addison-Wesley ISBN 0672329166, 2008

Head First PHP & MySQL, Beighley & Morrison, O'Reilly ISBN 0596006306, 2008

Beginning PHP and MySQL: From Novice to Professional, Gilmore, Apress ISBN 1590598628, 2008

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