Course Name: Fundamentals of Internet Programming

Course Number: CST* E258

Credits: 4

Catalog description: A comprehensive introduction to the server-side programming techniques used to develop interactive web sites. Using technologies such as PHP and SQL, students learn to create web sites that interact with web servers, manage user sessions, and store and retrieve data from databases. Course content is continually updated to reflect the current state of the art in Internet computing.

The course requires substantial hands-on use of computers in a computerized classroom environment.

Prerequisite: CST* E150 *or* permission of the instructor

Corequisite or Parallel:

General Education Competencies Satisfied:

HCC General Education Requirement Designated Competency Attribute Code(s):

None

Additional CSCU General Education Requirements for CSCU Transfer Degree Programs:

None

Embedded Competency(ies):

None

Discipline-Specific Attribute Code(s):

☐ **COMP**   **Computer Science Elective**

Course objectives:

General Education Goals and Outcomes:

None

Course Specific Objectives:

1. Develop web-based applications that perform hypertext preprocessing.
2. Develop web-based applications that create and manipulate server objects.
3. Develop web-based applications that manage sessions and maintain state.
4. Develop web-based applications that connect to relational databases.
5. Develop web-based applications that query relational databases using SQL.

Course Content:

*   Introduction to server-side programming using PHP.
*   PHP syntax, variables, decision structures, loops, arrays, functions.
*   Forms handling using PHP.
*   Managing sessions and maintaining state using PHP.
*   Introduction to relational databases using MySQL and SQL.
*   Querying databases using PHP, SQL and MySQL.
*   Web applications employing forms, session management, PHP, SQL, and MySQL.

Date Course Created:

Date of Last Revision: 04/03/2017