

**California State University Channel Islands  
New Course Proposal**

Program Area: Computer Science

**1. Catalog Description of the Course.**

**IT 280 WEB PROGRAMMING (3)**

Prerequisites: IT 151 and MATH 300

Three hours of lecture in the lab

This course provides an overview of the many languages and techniques used in web programming. This includes Java, JavaScript, PHP, Python, Perl, JSP and ASP, as well as database query languages and XML. Sample applications are built for dynamic web pages and web sites. No credit given towards Computer Science degree.

**2. Mode of Instruction.**

	<u>Units</u>	<u>Hours per Unit</u>	<u>Benchmark Enrollment</u>
Lecture	3	1	24
Seminar	0	0	0
Laboratory	0	0	0
Activity	0	0	0

**3. Justification and Learning Objectives.**

Justification: BSIT required course.

Learning Objectives:

Students who successfully complete this course will be able to:

1. Be able to analyze the components of a web software system.
2. Be able to identify the software components of a web system.
3. Be able to program basic functions in Java, JavaScript, one other scripting language.
4. Be able to program a basic web page database interface.
5. Be able to program a web page to gather information from the user.
6. Be able to create an XML document for a specific application.
7. Be able to distinguish the different data types on a web form.
8. Be able to identify the use of OO structures and their use.
9. Understand the fundamental role XML is playing in industry
10. Understand the fundamental differences between DTDs and Schema.

**4. Is this a General Education Course?**

No.

**5. Course Content in Outline Form.**

Topics:

1. Perl.
2. Client Side Scripting
3. Javascript.
4. Sever Side Scripting
5. PHP
6. ASP
7. Database fundamentals.
8. XML
9. XML Document Type Definitions.
10. MYSQL

**6. Cross-listed Courses.**

None.

**7. References.**

<u>Title</u>	<u>Author</u>	<u>Publisher</u>	<u>Year ISBN</u>
1. Internet & World Wide Web How to Program	Harvey M. Deitel, Paul J. Deitel, Andrew B. Goldberg	Pearson Education	2003 0131450913
2. Core Web Programming	Marty Hall, Larry Brown	Prentice Hall PTR	2001 0130897930
3. Programming the World Wide Web	Robert W. Sebesta	Pearson Education	2002 0321149459

**8. Faculty Qualified to Teach This Course.**

Qualified Faculty: Smith, Wolfe

**9. Frequency.**

Projected semesters to be offered: Fall, Spring

**10. New Resources Required.**

- a. New Equipment needs: Use of existing computer lab.
- b. New Library needs: none
- c. New Space/Facilities needs: none

**11. Program Modifications.**

None.

**12. Proposer of Course.**

Proposer: Smith, Wolfe Date: 7/13/2004

