CIM Courses for Creating Web Pages
http://cim.saddleback.edu/certificate

Summary of Technologies
(i.e., DHTML, PHP/MySQL & Java) & relevant courses to Create Web Pages using Adobe Applications

Outline

- Web Technologies for Content Delivery
  - Web 1.0 Static Moved Toward DHTML
  - Web 2.0 – Dynamic Web
- Courses to Take First
  - cim120, cim271a, cim278a, cim264a, cim274a
- Course Sequences
- Web Design Certificate
- Tentative Course Schedule

Web 1.0
Static Page Dynamic Page

DHTML = JavaScript + XHTML + CSS
- Dynamic HyperText Markup Language
  - Client Becomes Dynamic Entity
- Standardize SQL Database Interface Language

Web 2.0 – Dynamic Web Page

SQL Relational Databases are Flourishing
Web 2.0 Sites Wikipedia/YouTube/Facebook Use These Technologies
What to Take First

Prerequisites
Courses to Take First

- CIM271A/B XHTML (Some JavaScript/CSS)
  - Nuts and Bolts of Web Page
- CIM278A/B Dreamweaver (DW)
  - DW Word Processor of Web Pages
  - Aka DHTML High Level Editor
- CIM264A/B Flash: Web Animation
- CIM274A/B Photoshop: Photo Editing & Graphics
- Cim205a SQL/MySQL

Web Design Concurrent or Recommended Prep

- Can Distinguish Between Folder, Sub-folder & File?
  - No, Take CIM271A XHTML
- Can you integrated Excel into PowerPoint?
- Can you resize Windows?
  - No, Take CIM120
- Can you identify File System, Executables?
  - No, Take CIM174 or CIM120
- Can you differentiate DHTML, HTML & XHTML?
  - No, Take CIM271A/B XHTML
SW to Buy:
Adobe CS5 Web Premium

- Academic Pricing uscollegebuy.com
  - Educational Purposes Only ~$349
  - Collegesoftware.org foundationccc.org
- Flash – Premier Web Animation Tool
  - ActionScript Scripting Language for Flash
  - De Facto Standard for Web Advertisement
- Fireworks – Web Draw & Paint
  - Slices, Hotspots, Photo editing, Pop-up Menus
- Dreamweaver: Premier IDE DHTML Editor
  - Photoshop, illustrator, Acrobat Pro

Two Branches

- Web Page Design
  - Animation: Flash, ActionScript
  - Presentation/Content: XHTML, CSS; Dreamweaver App
  - Graphics: Fireworks/Photoshop
- Web Development
  - Programmable/Database Aspects of Web Design
  - All Web Pages are Dynamic (Programmable/DB)
  - Server-Side Framework (Java – LAMP)
  - Server-Side Scripting (PHP)
  - Client-Side Development: JavaScript, ActionScript
  - Database (SQL/MySQL)

Initial Web Development

- CIM205A SQL: Universal Database Language
- CIM7A: Intro to Java Programming
- CS1A: Intro to Programming
- Taken XHTML (CIM271A) or Equivalent
  - CIM269A JavaScript
  - CIM225 PHP
  - CIM272 CSS

Course Sequences

- DW/CSS Sequence
- Flash Sequence
- Web Development Sequences
Mastering Concepts

- Dreamweaver 3 – 4.5 Units
- CIM272 CSS 3 Units
- Flash 3 Units (CIM264A & B)
- ActionScript (3..9 Units)
  - 3 Basics (CIM264C Fall)
  - 3 Flex Programming Angle (cim264d is project oriented)
  - 3 Units Flash Hacks (CIM264D Spring)
- Web Development 6..21 Units
  - Server Side Basic = SQL + PHP
  - Client Side Basic = XHTML + JavaScript + Flash/ActionScript
  - Advance = Basic + CIM7A + CS4A + CS4B “Framework”

Courses Sequence Highlights

- All Can be Completed in 1 Year
  - cim278a DW & cim271a XHTML → cim278b → cim272 CSS
- 1 Semester Typical Course Sequence
  - cim205a SQL & CIM271A XHTML → CIM225 PHP
- Both Online and In-class Options
  - Fall and Spring Overlap & Complement
  - e.g., CIM225 PHP & CIM272 CSS Hybrid Fall, Spring On-line

DW/CSS Sequence
cim278a/b DW + cim272 CSS

- CIM278A/B
  Dreamweaver (DW) Begin .. Intermediate

- CIM272 CSS
  - CSS Fundamentals, Hacks and Tricks
  - How to Design Web Pages for CSS
  - Project Modeled after www.csszengarden.com
  - Quality Assurance
  - Optional DW templates & DW Advance

Flash/ActionScript Sequence

- Flash Fundamentals CIM264A & B

- ActionScript CIM264C (Fall)
  - Read and Implement ActionScript Programming
  - Chapter 9..12 Flash A/B Book
  - Touch on Flash Sites “Give Code”
- CIM264D Flash Hacks/Flash Sites (Spring)

- Flash is Defacto Standard for Web Advertisement
- 95%+ All Browser Have Flash Player
- SWF Format is a Superior Format
- 2014 2D/3D Web/Mobile Animation Class
PHP/MySQL Server-Side

- CIM205A MySQL – Structured Query Language
  - Universal Language for Questioning a Database
  - SQL De facto Standard Relation Database Access
  - RDBMS: Oracle, IBM, “SAP”; MySQL, SQLServer

- CIM225 PHP HyperText Preprocessor
  - Server Side Scripting
  - DHTML = XHTML(HTML4.0)+CSS+JavaScript
    - Client Browser Dynamically Renders Web Page
  - PHP Engine Dynamically Creates DHTML
  - PHP Scripts + DHTML → PHP Engine → DHTML
  - Word Press (Content Management System)
  - Presta Shop (E-Commerce System)

Client Side Scripting

- CIM271A XHTML
- CIM269A JavaScript
  - The Client Side Scripting Language
- CIM269B 3 Unit Version of CIM269A
  - Cover CIM269A + JavaScript Framework + AJAX
- CIM264C/D ActionScript Flash Hacks

Java Web Development

- CS1A/CS1B Intro to Programming
- Or CIM7A Intro to Java

- CS4A Advance Java Programming

- CS4B Java Web Programming
  - Swing, JDBC, JSP, Sockets/Networking/Threads
- CS1D Java Data Structures
- All 4 Java Classes use Same Book

Web Design Certificate

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**Web Design Certificate**

- CIM264A/B Flash
- CIM278A/B Dreamweaver
- CIM271A/B XHTML
- CIM274A PhotoShop
- CIM298 Capstone (Final 8 Weeks Spring)
- Electives - 6

- Can submit course waiver (harder for easier)
  - Know XHTML, submit 271A/B course waiver
  - take CIM269B JavaScript - jQuery
  - Substitute cim272 CSS for Flash

**Applying for Certificate**

- Approximately 2 Months Before End of Semester
- Admission & Records Submit Form
  - [http://saddleback.edu/admissions](http://saddleback.edu/admissions)
- More Info
  - [http://cim.saddleback.edu/certificate](http://cim.saddleback.edu/certificate)

**Scheduling**

**Tentative Course Schedule**

- [http://cim.saddleback.edu/certificate](http://cim.saddleback.edu/certificate)
Web Design Spring

CIM264A 
Flash

CIM271A 
XHTML

CIM225 
PHP

CIM272 
CSS

CIM278A 
Dreamweaver

First 1/2

CIM278B 
Dreamweaver

Second 1/2

CIM298 
Capstone
Offered 2nd 8 Week Spring
Note Offered any other time

Web Design Typical Sequence

First 8 Weeks

CIM264A 
Fa/Spring

CIM264B Flash Fa/Spring

CIM271A XHTML Fa/Sp/Sum

CIM272 CSS Fa/Sp

CIM278A 
Dreamweaver Fa/Sp/Sum

CIM278B Fa/Sp/Sum

CIM274A Photoshop Fall/Sp/Sum

CIM225 PHP Spring/Sum

2nd 8 Weeks

CIM298 Portfolio Spring

CIM274B Photoshop Fall/Spring

CIM225 PHP Fall

CIM205a SQL Fall/Spring/Sum

CIM269B JavaScript jQuery

Web Development Sequence

CIM7A Java or CS1B

CS4A Adv Java

CIM271A XHTML

CIM205A SQL/MySQL

CIM225 PHP

CIM269A JavaScript Depreciated

CIM205A SQL/MySQL

CIM225 PHP

CIM269B JavaScript jQuery

Web DB LAMP PHP/MySQL Merged into CIM225

Courses 2013-2014

<table>
<thead>
<tr>
<th>Course</th>
<th>Offered</th>
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<tbody>
<tr>
<td>Flash/ActionScript CIM264A-D</td>
<td>Postponed will come back as “2D and 3D Web/Mobile Animation”</td>
</tr>
<tr>
<td>Dreamweaver CIM278A</td>
<td>1st 8 Hybrid 6-7PM Thur &amp; Online</td>
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<tr>
<td>Dreamweaver CIM278B</td>
<td>2nd 8 Spring - Summer 2nd 4 weeks Online: Hybrid Fall 2nd 8 Weeks</td>
</tr>
<tr>
<td>SQL CIM205A</td>
<td>Online Spring, summer and Fall</td>
</tr>
<tr>
<td>PHP CIM225</td>
<td>2nd 8 week Fall 6-9PM Tues; Spring Online</td>
</tr>
<tr>
<td>JavaScript CIM269B</td>
<td>2nd 8 Weeks Fall (Offered More Often)</td>
</tr>
<tr>
<td>CSS CIM272</td>
<td>Fall 1st 8 Weeks 6-9PM Tuesday Spring 1st 8 Weeks Online</td>
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## Typical Full Time

12-15 Units/Semester

**Fall 13 (15 Units):**
- CIM271A → CIM271B, CIM278A → CIM278B
- CIM274A → B, CIM205A, CIM269B

**Spring 14 (15 Units):**
- CIM225, CIM272
- CIM298, CIM205A MySQL/SQL

## Typical Part Time

1.5 to 7.5 Units Per Semester

- CIM271A XHTML Summer or Fall
- Fall: CIM278A/B, CIM274A/B
- Spring: CIM205A, CIM272
  - Fall 11: CIM269B, CIM225
  - Spring 12: CIM298

## Summary - quiz

- What is Dreamweaver/CSS Sequence?

- ___ is the basic building block of Web Pages.

- Good Luck this Semester
- If Registered Watch Getting Started Next