

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

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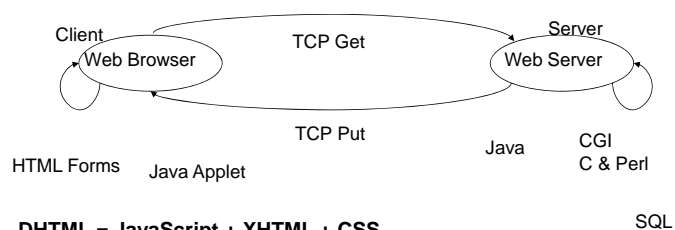
Outline

- 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

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Web 1.0 Static Page Dynamic Page



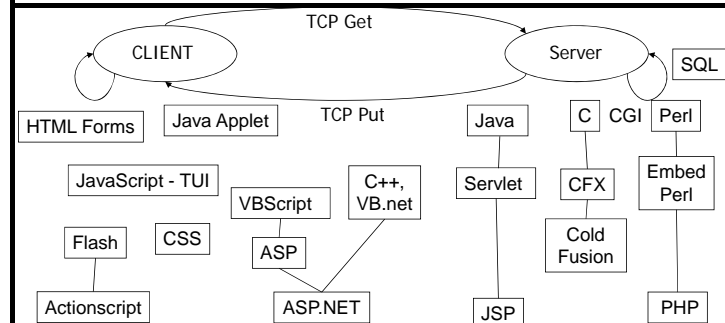
DHTML = JavaScript + XHTML + CSS

- Dynamic HyperText Markup Language
 - Client Becomes Dynamic Entity
- Standardize SQL Database Interface Language

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Web 2.0 –Dynamic Web Page

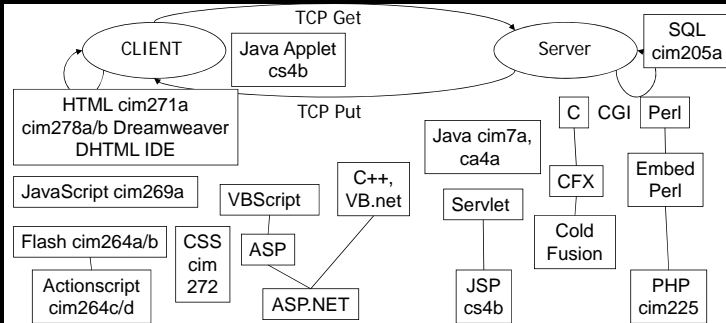


SQL Relational Databases are Flourishing
Web 2.0 Sites Wikipedia/YouTube/Facebook Use These Technologies

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Web 2.0 Courses



Client: DHTML + Flash/ActionScript

Server: SQL & (Framework & Scripting)

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What to Take First

Prerequisites
Courses to Take First

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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

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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

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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

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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)

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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

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Course Sequences

DW/CSS Sequence
Flash Sequence
Web Development Sequences

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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..21Units
 - Server Side Basic = SQL + PHP
 - Client Side Basic = XHTML + JavaScript + Flash/ActionScript
 - Advance = Basic + CIM7A + CS4A + CS4B “Framework”

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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

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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

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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

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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)

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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

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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

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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

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Applying for Certificate

- Approximately 2 Months
Before End of Semester

- Admission & Records Submit Form
- <http://saddleback.edu/admissions>

- More Info
- <http://cim.saddleback.edu/certificate>

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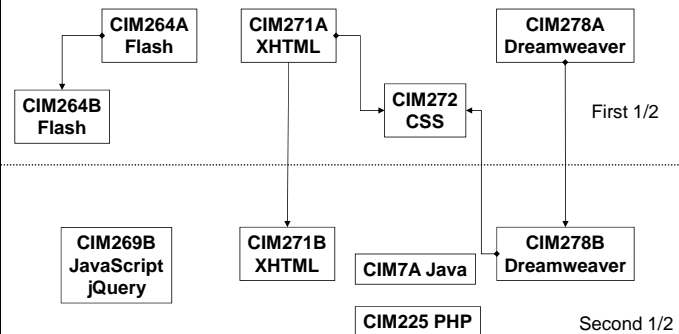
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Scheduling

Tentative Course Schedule
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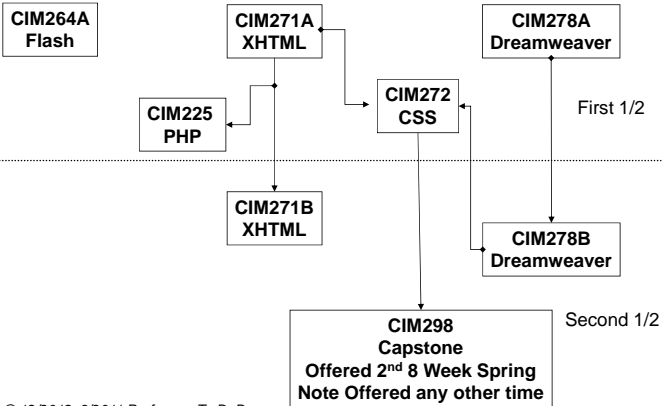
Tentative Web Design Fall



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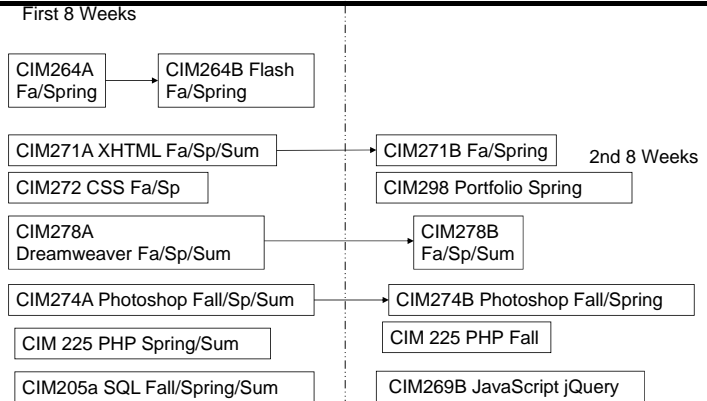
Web Design Spring



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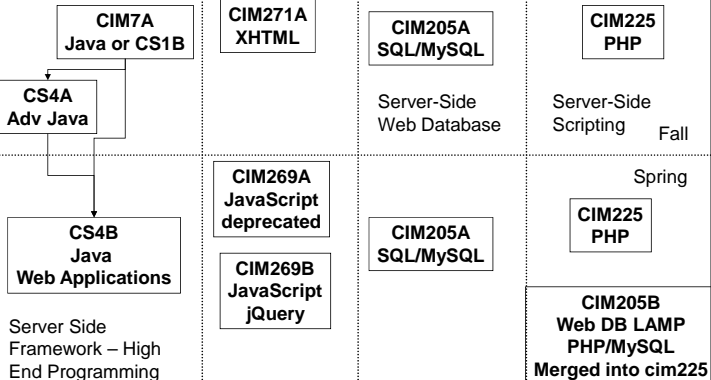
Web Design Typical Sequence



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Web Development Sequence



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Courses 2013-2014

Course		Offered
Flash/ActionScript	CIM264A-D	Postponed will come back as "2D and 3D Web/Mobile Animation"
Dreamweaver	CIM278A	1st 8 Hybrid 6-7PM Thur & Online
Dreamweaver	CIM278B	2nd 8 Spring - Summer 2nd 4 weeks Online: Hybrid Fall 2nd 8 Weeks
SQL	CIM205A	Online Spring, summer and Fall
PHP	CIM225	2nd 8 week Fall 6-9PM Tues; Spring Online
JavaScript	CIM269B	2nd 8 Weeks Fall (Offered More Often)
CSS	CIM272	Fall 1st 8 Weeks 6-9PM Tuesday Spring 1st 8 Weeks Online

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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

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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

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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

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