

# Enterprise Web Development

CS 497/597

# Enterprise Web Development

CS 497/597  
graduate credit

# What you should already know

- HTML and CSS
- Basic JavaScript (syntax, events handling)
- jQuery (or similar JavaScript framework)
- Sanitization, validation, regular expressions
- Forms, GET vs POST
- PHP (or similar scripting language)
- MySQL (or similar RDBMS syntax)
- Session, cookies
- Basic Web Security (XXS, XSRF, injections, encryption)



You've done basic web development



You've done basic web development

CS 401 or equivalent experience

Now for the fun stuff

# Three Broad Topics

1. Web Frameworks

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- PHP Laravel
- Ruby on Rails
- Python Flask



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## 2. Advanced JavaScript

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- Closures
- Anonymous Functions
- Node.Js

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- PHP Laravel
- Ruby on Rails
- Python Flask

## 2. Advanced JavaScript

- Closures
- Anonymous Functions
- Node.Js

## 3. Enterprise Concerns

# Three Broad Topics

## 1. Web Frameworks

- PHP Laravel
- Ruby on Rails
- Python Flask

## 2. Advanced JavaScript

- Closures
- Anonymous Functions
- Node.Js

## 3. Enterprise Concerns

- Profiling and Monitoring
- Caching
- Internationalization

# What about...

CSS Frameworks

MVC.NET

Ext.JS

Django

Symfony

Mobile Websites

Java Servlets

Silverlight

Web Design

WebGL

CakePHP

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CSS Frameworks

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not enough time

- **One midterm**  
(open-book, written essay)
- **One final (not cumulative)**  
(open-book, written essay)
- **Pop quizzes**  
(in-class, completely random... or are they?)
- **One very large programming assignment**  
(graded in segments throughout the semester)

# Grade Percentages

- One midterm **20%**  
(open-book, written essay)
- One final (not cumulative) **20%**  
(open-book, written essay)
- Pop quizzes **10%**  
(in-class, completely random... or are they?)
- One very large programming assignment **50%**  
(graded in segments throughout the semester)



# You can use any web technology for your project

CSS Frameworks

MVC.NET

Ext.JS

Django

Symfony

Mobile Websites

Java Servlets

Silverlight

Web Design

WebGL

CakePHP

You can use any web  
technology for your project

CSS Frameworks

MVC.NET You are responsible  
for hosting it

Ext.JS

Symfony

Mobile Websites

Java Servlets

Silverlight

Web Design

WebGL

CakePHP

You can use any web technology for your project

CSS Frameworks

MVC.NET You are responsible for hosting it

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Consider that the cost of your textbook

Web Design

WebGL

CakePHP

**GO TO CLASS THE FIRST  
DAY**



**FIND OUT NO TEXTBOOK  
REQUIRED**

[emegenerator.net](http://emegenerator.net)

# Project Ideas

# Project Ideas

Search engine

# Project Ideas

Search engine

Web Framework

# Project Ideas

Search engine

Web Framework

Browser Extension



# Project Ideas

Search engine

Facebook Game

Web Framework

Browser Extension

# Project Ideas

Search engine

Facebook Game

Web Framework

Browser Extension

Code Repository Interface

# Project Ideas

Search engine

E-commerce storefront

Facebook Game

Web Framework

Browser Extension

Code Repository Interface

# Project Ideas

Search engine

Exploit Scanner

E-commerce storefront

Facebook Game

Web Framework

Browser Extension

Code Repository Interface

# Project Ideas

Search engine

Exploit Scanner

E-commerce storefront

Facebook Game

jQuery Plugin

Web Framework

Browser Extension

Code Repository Interface

# Project Ideas

## Requirements:

Search engine

Exploit Scanner

E-commerce storefront

Facebook Game

jQuery Plugin

Web Framework

Browser Extension

Code Repository Interface

# Project Ideas

## Requirements:

- Use web technologies
- Sufficient in scope
- Hosted publicly
- Stored on GitHub