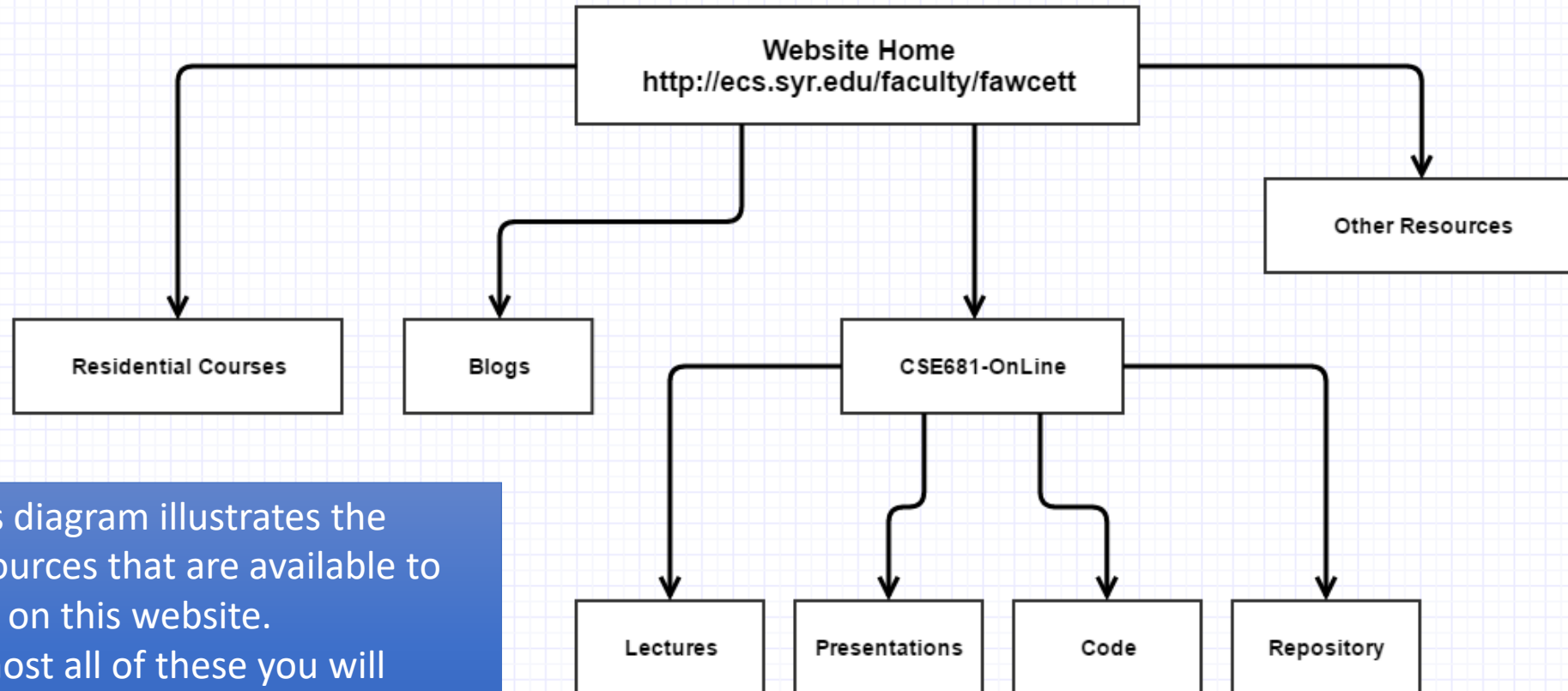


Website Resources
for
CSE681-OnLine
Software Modeling and Analysis

Jim Fawcett

<http://ecs.syr.edu/faculty/fawcett>

Website Structure



- This diagram illustrates the resources that are available to you on this website.
- Almost all of these you will access from links on one of the lecture pages.

Website Top-Level Menu

The screenshot shows a web browser window with the URL `ecs.syr.edu/faculty/fawcett/handouts/webpages/fawcettHome.htm`. The browser's address bar includes a search icon and a search field. The website's navigation menu is visible, with 'Courses' selected. A dropdown menu is open under 'Courses', listing various course options, with 'CSE681-OnLine' highlighted. The main content area of the page features the title 'Computer Engineering Course Notes - Jim Fawcett' and a quote: 'Insight comes from experience, and experience comes from bad judgement.' - Jim Horning. Below the quote, there is a photo of two men, one in a graduation cap and gown, and a caption 'Chatting with Mohammed Koni'. A blue callout box is overlaid on the page, containing two bullet points: 'This is the home page for the entire website.' and 'You will usually just click through to the CSE681-OnLine link.'

Home Courses Core Tech Directories Projects Blog Research EECS Resources Site Map

Courses
CSE681-SMA
CSE686-IP
CSE687-OOD
CSE775-DO
CSE776-DP
CSE784-SS
CSE681-OnLine
CSE687-OnLine
C++ Short Course
Sample Code
Presentations
Office Hours
Program Plan
SW Track
Lecture Videos
Notices
Academic Calendar
Student Projects

Computer Engineering Course Notes - Jim Fawcett


Revised: 01/06/2017 09:53:01

"Insight comes from experience, and experience comes from bad judgement."
- Jim Horning

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Appointments



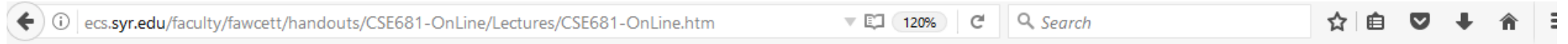
Chatting with Mohammed Koni

- This is the home page for the entire website.
- You will usually just click through to the CSE681-OnLine link.

Purpose of this Site:

The site serves, for current and former students, as a portal into a sequence of software design courses I've taught for the last twenty five years. This page links to descriptions of each of the courses and to folders containing presentations and code used as an integral part of these courses.

CSE681-OnLine Home



[Home](#) [Courses ▾](#) [Core Tech ▾](#) [Directories ▾](#) [Projects ▾](#) [Blog ▾](#) [Research ▾](#) [EECS ▾](#) [Resources ▾](#) [Site Map](#)

[Lectures](#)

On-Line CSE681 - Software Modeling & Analysis

Constructing Software Systems on the .Net Platform

Revised: 04/23/2017 10:50:26

- This is the home page for this course.
- Usually you will just click through to the lectures.
- The menu items serve all of the courses in the software track so are not tailored specifically for your needs.
- If you get lost in the website you will find that all of the menus contain a site map link you can use to get back to this page.

Lecture Level Menu : Lectures

ecs.syr.edu/faculty/fawcett/handouts/CSE681-OnLine/Lectures/wk1a.htm

Home Course Syllabus **Lectures** Projects Notes CodeSnaps Study Guides Directories Tech Links Blog Sit

W1a: Introduction

- W1b: Oper Concept Docs
- W2a: SW Architecture
- W2b: Packages
- W3a: C# Language
- W3b: Code Samples
- W4a: System Structure
- W4b: Helper Code
- W5a: WCF
- W5b: WCF example code
- W6a: WPF
- W6b: WPF example code
- W7a: Threads
- W7b: Thread example code
- W8a: Exam Review
- W8b: Exam
- W9a: Async Systems
- W9a: Msg-Passing Comm
- W10a: Enterprise Computing
- W10b: Project #4 Help

Introduction to SMA

Exams, Class Mechanics

04/01/2017 09:26:09

Synopsis:

This lecture is an introduction to the concepts covered in this course. We will discuss a standard software development process, surveying a lot of the concepts of Software Engineering.

Tools needed for this course:

- Class text: C# in a Nutshell. You will need at least C# 6.0 in a Nutshell and should use the 6th edition when they become available.

- This drop-down lets you quickly navigate to any of the lectures in this course.
- It also gives you an idea of the course structure and contents.

Lecture-Level Menu : Projects

The screenshot shows a web browser window with the URL `ecs.syr.edu/faculty/fawcett/handouts/CSE681-OnLine/Lectures/wk1a.htm`. The navigation menu is open, showing the following items:

- Project #1
- Project #2
- Project #3
- Project #4
- Sample Project #1
- Sample Project #2
- Sample Project #3
- Sample Project #4
- Residential Lecture & Help Session Videos
- Getting Started on C++ and C#
- Succeeding with Projects
 - Constructing on-line C++
 - Examinations
 - Operating System
 - Examined through
 - Examined
- Submissions
- Uploading Projects
- Grading Policy
- Visual Studio 2012 Help
- Visual Studio 2012 - MSDN
- Visual C# - MSDN
- .Net Framework - MSDN
- Visual C++ - MSDN
- Std C++ Libraries - MSDN
- Presentations
- Code
- Code Smells
- Summer Projects
- Summer Reading

The main content area displays the title **Introduction to SMA** and the subtitle **Projects, Exams, Class Mechanics**. The date `04/01/2017 09:26:09` is visible.

Synops

This lecture covers the notion of discussion surveys.

Tools needed

- Class text. You will find it available.
- This week. You may find it. Once you have it.
- A laptop or desktop running windows 7 or 10. If you are a Mac or Linux user you will need to install a virtual machine, like Parallels or VirtualBox.

Callout Box 1 (Blue):

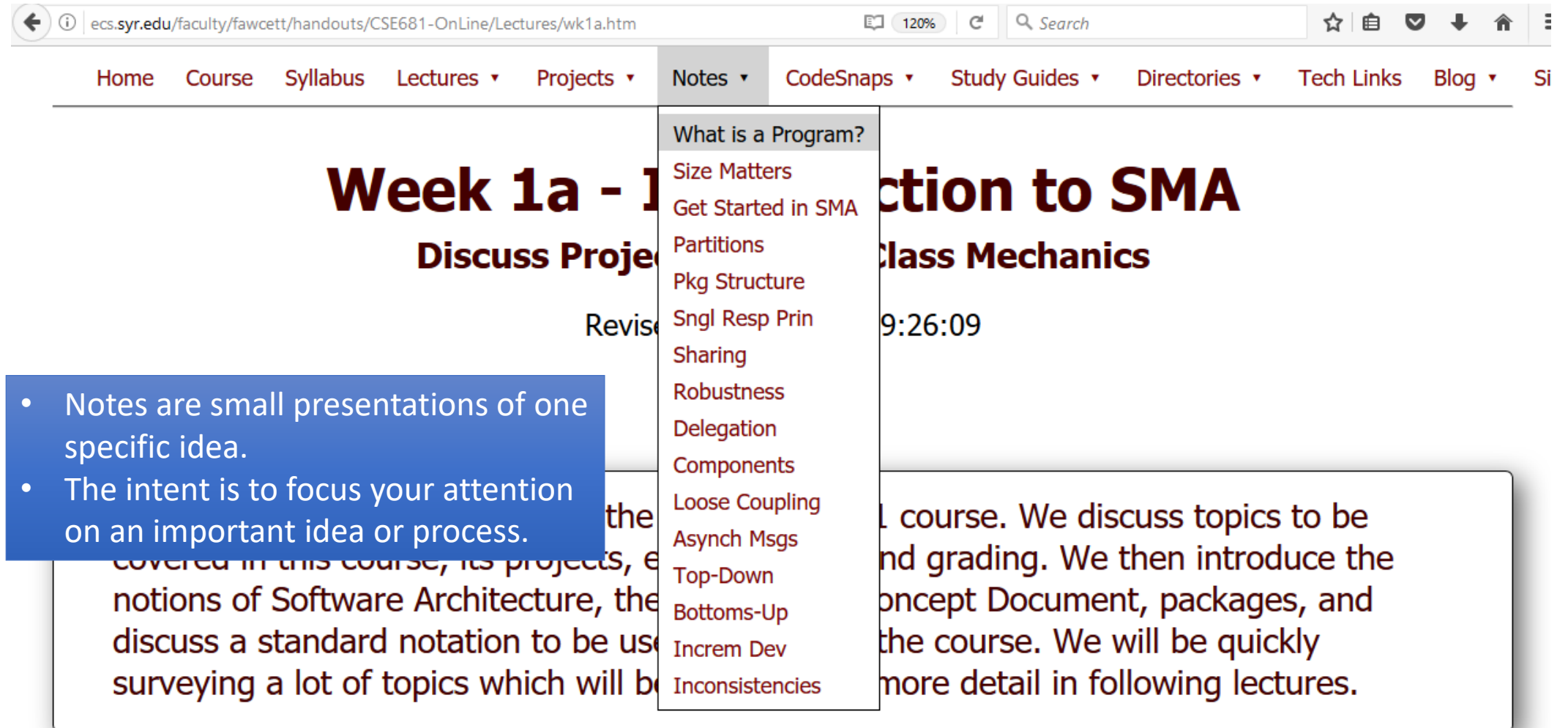
- This project drop-down gives you quick access to your project statements and statements of an example project to help you get started.
- The remaining items on the drop-down are shared with the residential courses and are not specifically tailored to your experience with this course.

Callout Box 2 (Yellow):

and should prefer later editions when they become available.

it phrase "Jim Fawcett" Project Courses > CSE681-OnLine.

Lecture-Level Menu : Notes



The screenshot shows a web browser with the URL `ecs.syr.edu/faculty/fawcett/handouts/CSE681-OnLine/Lectures/wk1a.htm`. The navigation menu includes: Home, Course, Syllabus, Lectures, Projects, Notes, CodeSnaps, Study Guides, Directories, Tech Links, Blog, and Si. The 'Notes' menu is open, displaying a list of topics: What is a Program?, Size Matters, Get Started in SMA, Partitions, Pkg Structure, Sngl Resp Prin, Sharing, Robustness, Delegation, Components, Loose Coupling, Asynch Msgs, Top-Down, Bottoms-Up, Increm Dev, and Inconsistencies. The main content area features a large heading 'Week 1a - Introduction to SMA' and a sub-heading 'Class Mechanics'. A blue callout box on the left contains two bullet points: 'Notes are small presentations of one specific idea.' and 'The intent is to focus your attention on an important idea or process.' A white callout box on the right contains text: 'This course. We discuss topics to be and grading. We then introduce the concept Document, packages, and the course. We will be quickly more detail in following lectures.'

ecs.syr.edu/faculty/fawcett/handouts/CSE681-OnLine/Lectures/wk1a.htm

Home Course Syllabus Lectures Projects Notes CodeSnaps Study Guides Directories Tech Links Blog Si

Week 1a - Introduction to SMA

Class Mechanics

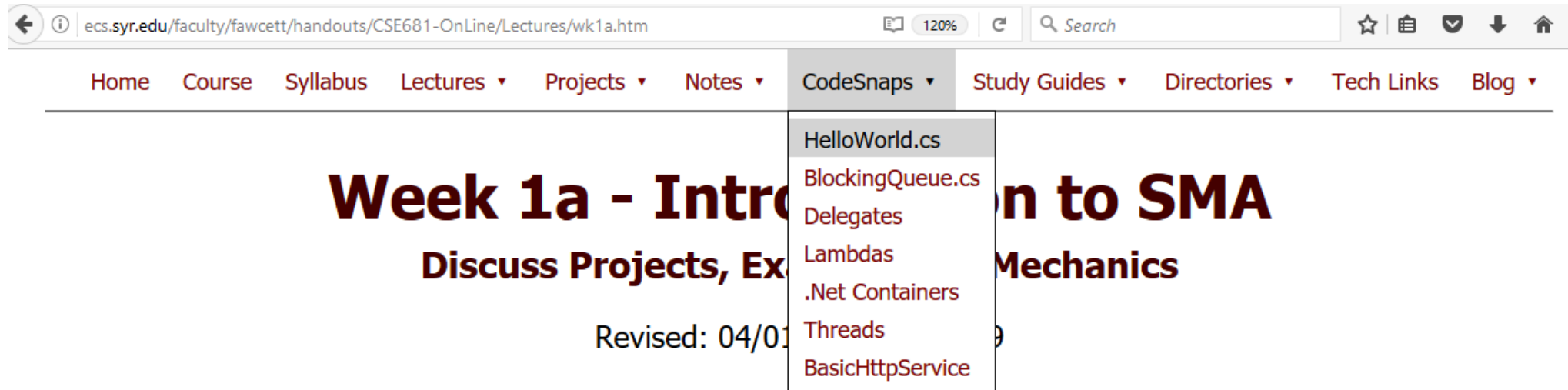
9:26:09

- What is a Program?
- Size Matters
- Get Started in SMA
- Partitions
- Pkg Structure
- Sngl Resp Prin
- Sharing
- Robustness
- Delegation
- Components
- Loose Coupling
- Asynch Msgs
- Top-Down
- Bottoms-Up
- Increm Dev
- Inconsistencies

- Notes are small presentations of one specific idea.
- The intent is to focus your attention on an important idea or process.

This course. We discuss topics to be and grading. We then introduce the concept Document, packages, and the course. We will be quickly more detail in following lectures.

Lecture-Level Menu : CodeSnaps



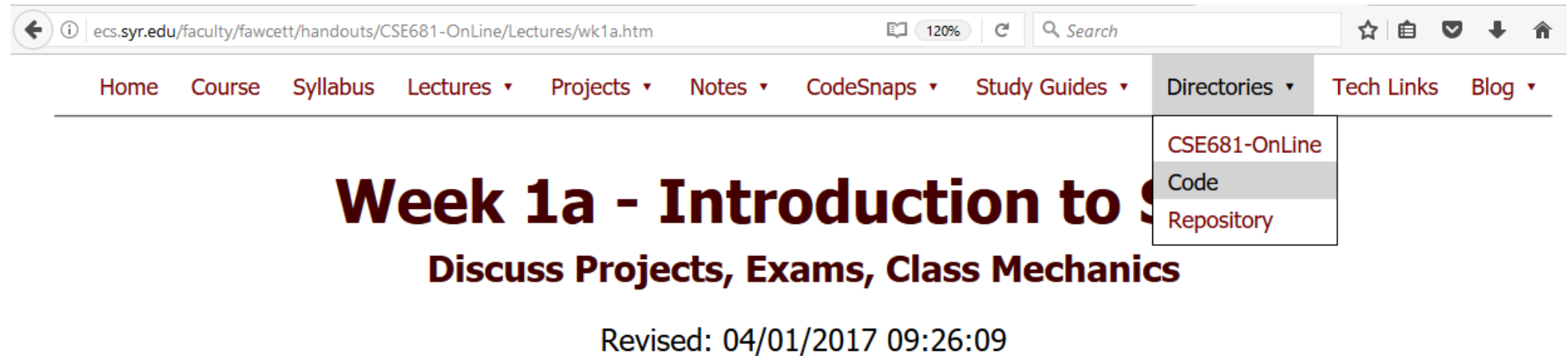
The screenshot shows a web browser window with the URL `ecs.syr.edu/faculty/fawcett/handouts/CSE681-OnLine/Lectures/wk1a.htm`. The browser's address bar shows a search icon and the text "Search". The page has a navigation menu with items: Home, Course, Syllabus, Lectures, Projects, Notes, CodeSnaps, Study Guides, Directories, Tech Links, and Blog. The "CodeSnaps" menu is expanded, showing a list of code examples: HelloWorld.cs, BlockingQueue.cs, Delegates, Lambdas, .Net Containers, Threads, and BasicHttpService. The main content area of the page is partially visible, showing the text "Week 1a - Introduction to SMA" and "Discuss Projects, Ex Mechanics".

Synopsis:

This lecture is an introduction to the topics covered in this course, its project notions of Software Architecture, discuss a standard notation to be surveying a lot of topics which will be examined in more detail in following lectures.

- CodeSnaps are code embedded in webpages.
- That gives you quick access to important code examples without the need to download and open in Visual Studio
- We will add more CodeSnaps as needed, based on your questions during the Synchronous Sessions.

Lecture-Level Menu : Directories



The screenshot shows a web browser window with the URL `ecs.syr.edu/faculty/fawcett/handouts/CSE681-OnLine/Lectures/wk1a.htm`. The browser's address bar includes a search icon, a search input field with the text "Search", and icons for star, folder, shield, download, and home. Below the address bar is a navigation menu with the following items: Home, Course, Syllabus, Lectures, Projects, Notes, CodeSnaps, Study Guides, Directories, Tech Links, and Blog. The "Directories" menu is open, showing three sub-items: CSE681-OnLine, Code, and Repository. The main content area displays the title "Week 1a - Introduction to S" in a large, bold, dark red font, followed by the subtitle "Discuss Projects, Exams, Class Mechanics" in a smaller, bold, dark red font. Below the subtitle, the text "Revised: 04/01/2017 09:26:09" is displayed in a smaller, dark red font.

Synopsis:

This lecture is an introduction to the concepts covered in this course, including the notions of Software Architecture and how to discuss a standard notation. The lecture is surveying a lot of topics.

- The Code Directory has code examples that you can download and run in Visual Studio.
- The Repository contains code you may wish to use in your projects.
- You will be allowed to use any code from the Repository, as part of your projects, but you may not use code downloaded from elsewhere on the web.

End Website Intro