

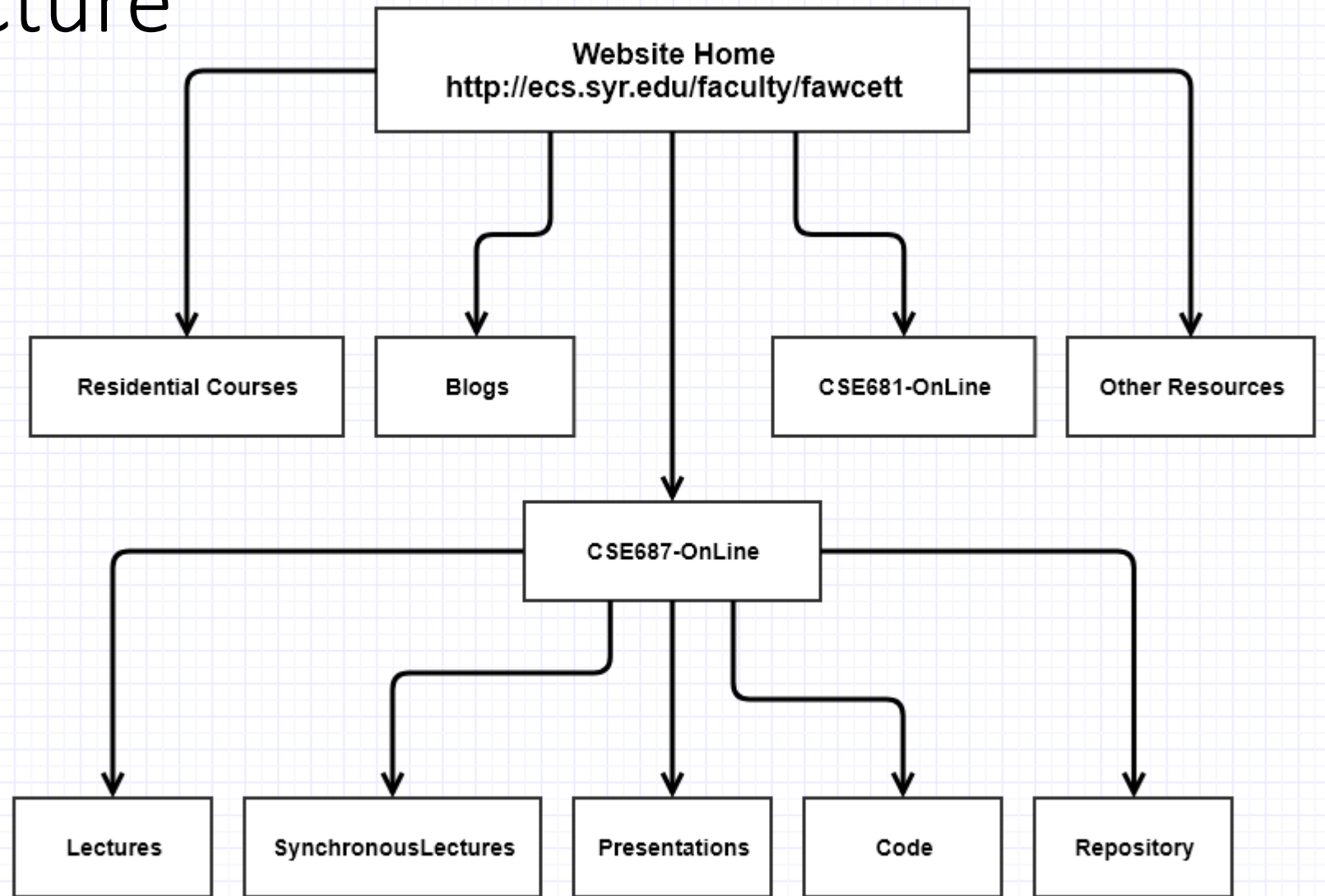
Website Resources for CSE687-OnLine Object Oriented Design

Jim Fawcett

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

Website Structure

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



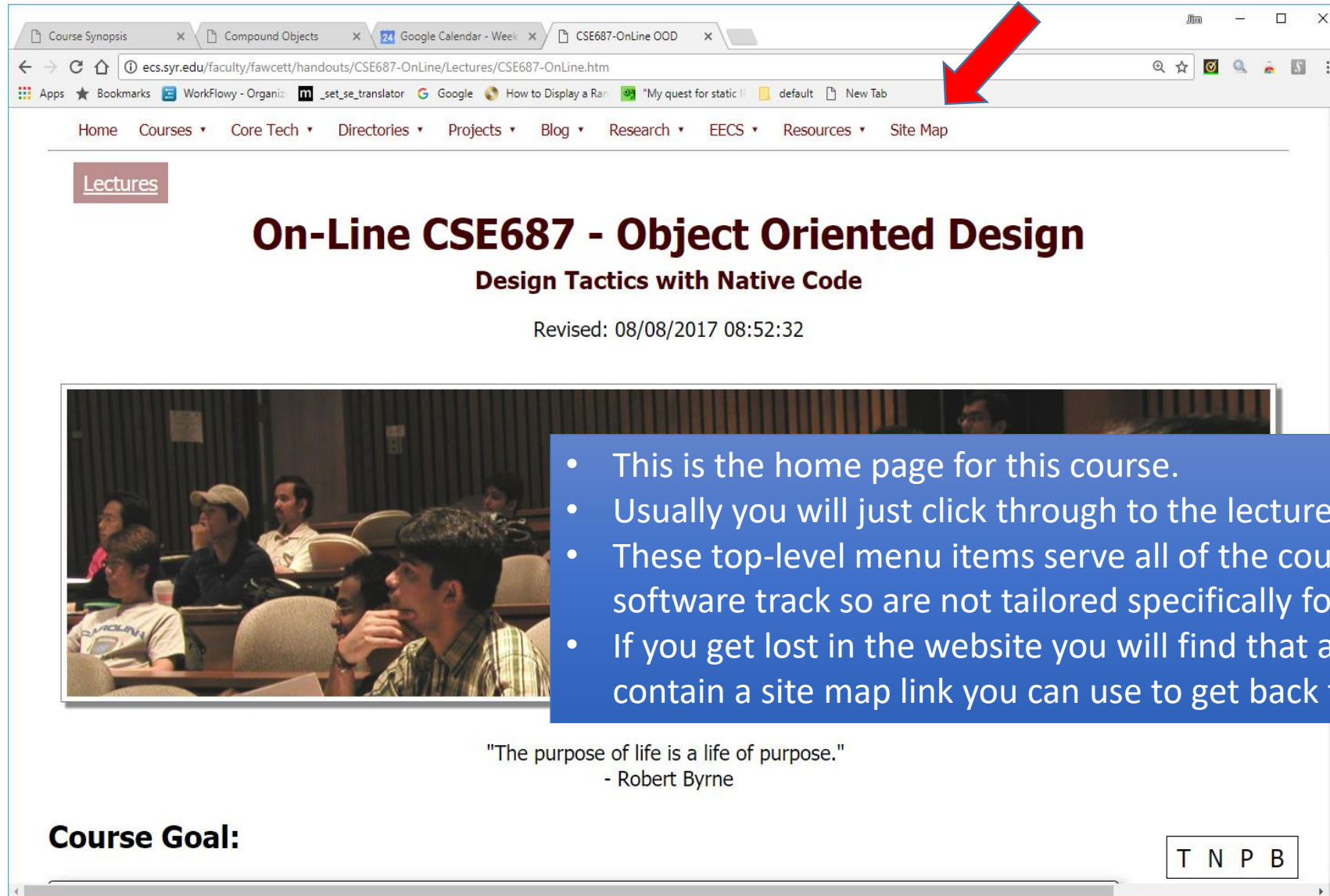
Website Top-Level Menu

The screenshot shows a web browser window with the URL `ecs.syr.edu/faculty/fawcett/handouts/webpages/fawcettHome.htm`. The browser's address bar and tabs are visible at the top. The website's top navigation bar includes links for Home, Courses, Core Tech, Directories, Projects, Blog, Research, EECS, Resources, and Site Map. A dropdown menu is open under the 'Courses' link, listing various course options, with 'CSE687-OnLine' highlighted. The main content area features the title 'Computer Engineering Course Notes - Jim Fawcett', a revision date of '08/14/2017 14:42:00', and a quote: '"Good judgement comes from experience, and experience comes from bad judgement." - Jim Horning'. Below this is a photo of Jim Fawcett and a student, with the caption 'Jingyi now at Amazon'. A blue callout box contains the following text:

- This is the home page for the entire website.
- You will usually just click through to the CSE687-OnLine link.

Below the callout box, the text 'Jingyi now at Amazon' is visible. At the bottom of the page, there is a footer with the URL `ecs.syr.edu/faculty/fawcett/handouts/CSE687-OnLine/Lectures/CSE687-OnLine.htm` and a small logo for 'TUN PER B'.

CSE681-OnLine Home



The screenshot shows a web browser window with the URL `ecs.syr.edu/faculty/fawcett/handouts/CSE687-OnLine/Lectures/CSE687-OnLine.htm`. The page features a navigation menu with items like Home, Courses, Core Tech, Directories, Projects, Blog, Research, EECS, Resources, and Site Map. A 'Lectures' button is visible on the left. The main heading is 'On-Line CSE687 - Object Oriented Design' with the subtitle 'Design Tactics with Native Code' and a revision date of '08/08/2017 08:52:32'. Below this is a photo of students in a lecture hall. A blue callout box contains a list of points. At the bottom, there is a quote by Robert Byrne and a 'Course Goal:' section. A small box with the letters 'T N P B' is in the bottom right corner.

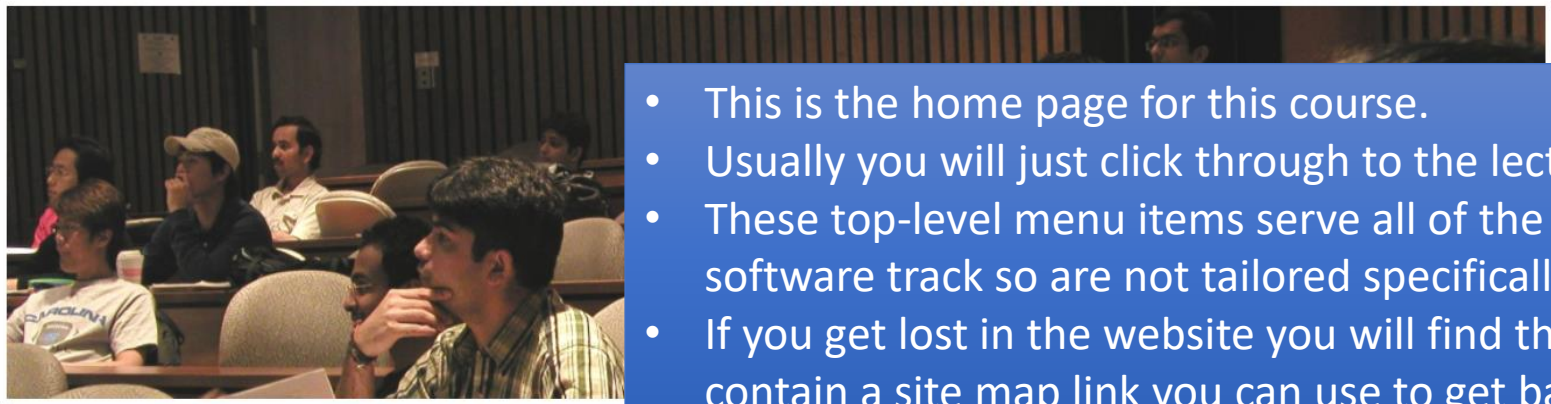
Home Courses ▾ Core Tech ▾ Directories ▾ Projects ▾ Blog ▾ Research ▾ EECS ▾ Resources ▾ Site Map

Lectures

On-Line CSE687 - Object Oriented Design

Design Tactics with Native Code

Revised: 08/08/2017 08:52:32



- This is the home page for this course.
- Usually you will just click through to the lectures.
- These top-level 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.

"The purpose of life is a life of purpose."
- Robert Byrne

Course Goal:

T N P B

Lecture Level Menu : Lectures

Course Synopsis | Compound Objects | Google Calendar - Week | Wk 1a - Intro

ecs.syr.edu/faculty/fawcett/handouts/CSE687-OnLine/Lectures/Wk1a.htm

Home Course Syllabus **Lectures** Projects Notes CodeSnaps Study Guides Directories Blog Site Map

1a - Introduction to OOD

Class Projects, Exams, Class Mechanics

Revised: 08/08/2017 08:52:41

Synopsis:

Introduces this on... discuss resources

Tools needed for th

- Class texts:
 - [The C++ Program](#)
 - You will need at le
 - [The C++ Standard](#)
 - You will need at least the Second Edition.
- This website:
 - www.syr.edu/faculty/fawcett
 - You may also use Google search with the phrase "Jim Fawcett"
 - Once you've reached the home page, select Courses > CSE687-OnLine.
- A laptop or desktop running Windows 10 or 7.

If you are a Mac or Linux user you will need to install a virtual machine, like Parallels or VirtualBox, and install Windows 10 in

T N P B

ecs.syr.edu/faculty/fawcett/handouts/CSE687-OnLine/Lectures/wk1a.htm

- 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/CSE687-OnLine/Lectures/Wk1a.htm`. The browser's address bar and tabs are visible at the top. The website's navigation menu includes 'Home', 'Course', 'Syllabus', 'Lectures', 'Projects', 'Notes', 'CodeSnaps', 'Study Guides', 'Directories', 'Blog', and 'Site Map'. The 'Projects' dropdown menu is open, displaying a list of links: Project #1, Project #2, Project #3, Project #4, Sample Project #1, Sample Project #2, Sample Project #3, Sample Project #4, Starting C++, Starting first class project, Succeeding with Projects, Constructing, Submissions, Uploading Projects, Grading Policy, Visual Studio 2012 Help, Presentations, Code, Summer Projects, Summer Reading, Residential Lecture & Help Session Videos, Visual Studio 2012 - MSDN, Visual C# - MSDN, .Net Framework - MSDN, Visual C++ - MSDN, and Std C++ Libraries - MSDN. A blue callout box with white text highlights the first two items: 'Project #1' and 'Project #2'. The callout text reads: '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.' The main content area of the page shows the title 'Wk 1a - Introduction to OOD' and 'Discuss Projects, Exams, Class Mechanics'. A 'Synopsis' section is partially visible on the left. The browser's status bar at the bottom shows the current page URL: `ecs.syr.edu/faculty/fawcett/handouts/CSE687-OnLine/SynchronousLectures/Project2.htm`.

- 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.

Lecture-Level Menu : Notes

The screenshot shows a web browser window with the URL `ecs.syr.edu/faculty/fawcett/handouts/CSE687-OnLine/Lectures/Wk1a.htm`. The browser's address bar and tabs are visible at the top. The website's navigation menu includes 'Home', 'Course', 'Syllabus', 'Lectures', 'Projects', 'Notes', 'CodeSnaps', 'Study Guides', 'Directories', 'Blog', and 'Site Map'. The 'Notes' dropdown menu is open, displaying a list of topics: 'Course Summary', '-- Language Notes ---', 'C++ Knowledge Base', 'C vs C++', 'C++11', 'Classes', 'Class Relationships', 'Inheritance', 'Three Tier Hierarchy', 'Compound Objects', 'Templates', '-- Design Notes -----', 'Design Principles', '- Single Responsibility', '- Encapsulate', '- Least Knowledge', 'UML Diagrams', 'Package Structure', 'Prime Directives', 'Application/Solution side', 'Namespaces', 'Top-Down', 'Bottom-Up', 'Incremental Development', 'Partitions', 'Interfaces', 'Components', and 'Events'. The background page features a 'Week 1a - Intro' section with a 'Synopsis' heading. 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 yellow callout box on the right contains text about the course's focus on projects, examinations, and grading. A yellow callout box at the bottom left provides information about the C++ programming language and the C++ Standard Library (CPPSL). A yellow callout box at the bottom right mentions the name 'Stroustrup' and provides a link to 'www.syr.edu/faculty/fawcett'. A small box in the bottom right corner contains the letters 'T N P B'.

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

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The C++ Programming Language (CPL)
You will need at least the Fourth Edition
The C++ Standard Library (CPPSL), Sec
You will need at least the Second Edition

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Once you've reached the home page, s
- A laptop or desktop running Windows 10
If you are a Mac or Linux user you will

Bjarne Stroustrup
or editions when they become available.
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Lecture-Level Menu : CodeSnaps

The screenshot shows a web browser window with the URL `ecs.syr.edu/faculty/fawcett/handouts/CSE687-OnLine/Lectures/Wk1a.htm`. The browser's address bar and tabs are visible at the top. The page has a navigation menu with items like Home, Course, Syllabus, Lectures, Projects, Notes, CodeSnaps, Study Guides, Directories, Blog, and Site Map. The 'CodeSnaps' menu is open, showing a list of topics: GettingStarted Project, Pointers and Refs, Class Anatomy, Str class, String helper functions, Compound Objects, Inheritance, Template Class, Function Objects, Lambdas, and Blocking Queue. The main content area features a large heading 'Week 1a Introduction to OOD' and a 'Synopsis' section. Below the synopsis is a 'Tools needed for this course' section with a list of items. A blue callout box on the right contains the following text:

- 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.

Synopsis:

Introduces this on-line CSE687 course, topics to be covered, its progress, and discusses resources available for you and walk through this part of the course.

Tools needed for this course:

- Class texts:
 - [The C++ Programming Language \(CPPPL\), Fourth Edition, Bjarne Stroustrup](#)
You will need at least the Fourth Edition, and should prefer later editions when they become available.
 - [The C++ Standard Library \(CPPSL\), Second Edition, Nicolai Josuttis](#)
You will need at least the Second Edition.
- This website:
www.syr.edu/faculty/fawcett
You may also use Google search with the phrase "Jim Fawcett"
Once you've reached the home page, select Courses > CSE687-OnLine.
- A laptop or desktop running Windows 10 or 7.
If you are a Mac or Linux user you will need to install a virtual machine, like Parallels or VirtualBox, and install Windows 10 in

Lecture-Level Menu : Directories

The screenshot shows a web browser window with the URL `ecs.syr.edu/faculty/fawcett/handouts/CSE687-OnLine/Lectures/Wk1a.htm`. The page title is "Week 1a - Introduction to C++" and the subtitle is "Discuss Projects, Exams, Class". The "Directories" dropdown menu is open, showing options: "CSE687-OnLine", "Code", "Repository", and "Main Site". A blue callout box contains the following text:

- 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.

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End Website Intro