Objectives

You'll have to be there anyway, so...

- announce (your other?) homepage
- communicate with one and all
- post your syllabus
- post classnotes
- post, collect and solve assignments
- maintain a grade book
- run quizzes
Topics

Feature Overload
Feature Selection
Walkthroughs
Pros and Cons
Default Homepage

talk about feature overload!
<table>
<thead>
<tr>
<th>Available Features</th>
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</thead>
<tbody>
<tr>
<td>Articles</td>
<td>Calendar</td>
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<tr>
<td>Checklist</td>
<td>Classlist</td>
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<tr>
<td>Discussions</td>
<td>Dropbox</td>
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<tr>
<td>FAQ</td>
<td>Glossary</td>
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<tr>
<td>Grade Book</td>
<td>Help</td>
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<td>Links</td>
<td>News</td>
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<td>Quizzes</td>
<td>Survey</td>
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</tbody>
</table>
Adapted Homepage

Announcements
Assignments
Classnotes
Email
Grades
Links
Solutions
Syllabus

Programming Skills (Course Administration)

Instructor: Axel T. Scheiner
Lectures: MW 6:00-7:50 pm, room 70-1610
Office Hours: T 9:00-11:00 am, W 1:30-3:30 pm, room 70-3525
and by appointment
Grader: Jinder Anja

Grading Policy: The final exam contributes 50% and all assignments together constitute 50% to the grade. Each problem within the assignment usually counts the same. The worst score for an assignment is dropped.

In addition, gradate students must complete a project which is graded on a scale of fail, pass, and high pass. A high pass will improve the overall grade by one letter grade, a fail will be ignored in place of the worst homework score.

Academic Dishonesty Policy

The following excerpt is from the RIT Student Rights and Responsibilities web site at RIT Student Rights and Responsibilities. Note: This link will open a new window which you can close and return to the course when you are done.

The Rochester Institute of Technology does not condone any form of academic dishonesty. Any act of improperly representing another person's work as one's own is construed as an act of academic dishonesty. These acts include, but are not limited to, plagiarism in any form, or use of information and materials not authorized by the instructor during an examination.

If a faculty member judges a student to be guilty of some form of academic dishonesty, the student may be given a failing grade for that piece of work or for the course, depending upon the severity of the misconduct.

If the student believes the action by the instructor to be incorrect or the penalty too severe, appeal may be made to the Academic Conduct Committee of the college in which the course is offered.
<table>
<thead>
<tr>
<th>Useful Features: Implementation</th>
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<tbody>
<tr>
<td>Announcements</td>
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<td>Solutions</td>
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<td>Syllabus</td>
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</table>
Editing leads (back) to ...
Create widgets with course-specific information and links to be available from the front page.
Align the widget title to the left to agree with other styles.
Insert HTML code, tables, links, etc.
Cut and paste it and keep a local copy!
Put the Role Switch in column 1 (for testing) and your announcements, etc., in column 2.
Populate NavBars to provide overall access to the tools (if any) you want your students to have.
Data Organization: Content

Content: a set of modules.

A module contains modules and/or topics.

Topics are files which can be

- created,
- uploaded,
- or linked
  - to other places on the D2L web site,
  - to pages on the Internet.
Content vis-a-vis the File System

Content (modules, topics) is organized according to a presentation layout.

The files offered in the content area have a separate hierarchical structure (directories) in the file system.

The mapping can be many-to-one.
Content vs. File System

Course Content

Course Information
- Syllabus
- Test 1 Study Guide
- Test 2 Study Guide

Messages From Instructor
- Corrections
  - DNS MX Entries Uses

Laboratory Assignments
- The Labs, Enumerated
  - Remote Copy
  - Web Service
  - Remote Procedure Call

Port Assignments
- How to Run the C++ Compiler
- Notes on Use of Make Files
- Socket Example
- Closing Sockets and Address-In-Use Error

Library Documentation
- HTTP Overview
- Java enumeration example

Introduction
- a Introduction
- b Textbook Slides
- c Homework 1

Unit 1 Application Layer
- a Introduction
- b Slides from Text
- c DNS Tracing
- d Homework 2

Unit 2 Socket Programming

Unit 3 Transport Layer
- a Introduction
- b Textbook Slides
Create content as a hierarchy of modules and (later) topics (files, links) as leaves.
Editing: Files for Content

- On your own machine, ZIP a tree of files.
- Upload the archive.
- Unzip the archive in place.
- Allow overwrites as desired.
Technically, you can connect to a server like
https://mycourses.rit.edu/content/enforced/11519-400356170.20051/
(try it)

but drag&drop and *cp* operations (MacOS X over RoadRunner) proved to be unstable at best.
File Names

The Faculty FAQ contains an exclusive list of extensions for up- and download:

- applies to topics
- mostly applies to QuickLink topics
- causes errors for `<a href= >` references

Append `.txt` extension prior to upload!
(may still get wrapped in HTML)
A new topic can be linked to an existing text file.
A QuickLink permits linking to an archive, etc.
Editing: Content

- An existing topic can be unnumbered, etc.
- Once unnumbered, the topic title can be used for explicit numbering.
- A topic (e.g., assignment solution) can be hidden based on dates, etc., but a student can circumvent this, e.g., in the calendar!
The calendar can contain descriptions and links. All registered courses and personal events can be shown in the same view. Links must be absolute.
Editing: Syllabus Upload

- Download the template.
- Edit the *Excel* file — not all date combinations are accepted! Description can be HTML.
- Upload — but it is added, not merged!
Create links as a hierarchy of categories and annotated (absolute) links as leaves.
Assignments

- Create assignments and solutions as content topics.
- They could be subject to a release date, but students can guess and create the links!
Create a dropbox category, a folder, a description, and connect it to the calendar and the grade book.
Assignments — Connections

End date and description are added to calendar.

Address lists composed of selected students.
Questions for Quizzes

To add a question or section, select the appropriate item from the dropdown menu above and click on the GO button.

Import questions by clicking on Import above.
Quizzes

Quizzes are created from questions.
Data Organization: Quizzes

There is a quiz library.
The library consists of sections.
Sections contain questions.
Questions are one of the following:
  Multiple Choice / True-False
  Long / Short Answer
  Arithmetic / Significant Figures
  Fill in the Blanks / Multi-select
  Matching / Ordering
<table>
<thead>
<tr>
<th>Last Name</th>
<th>HW hw1</th>
<th>HW t1</th>
<th>HW t2</th>
<th>Exams final</th>
<th>Final Grade</th>
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Data Organization: Grade Book

A student’s grade is made up of **categories**. Categories contribute a certain percentage to the grade.

Categories contain **items**.

Items contribute to the category’s grade. Either all equal or user-specified.

There are bonus items and rules for dropping N lowest/highest grades.
Grade Types

Numeric -- “out of”
Checkbox -- pass/fail (computable from number)
Selectbox -- user-defined enumeration
Text
Calculated
The Good, The Bad, and The Ugly

Summary
Pro

- required
- corporate (but not individual) identity
- familiar interface for students
- easier to build content for common cases
- connected to registrar
- (currently) more reliable than SIS
- fairly modular tools
- calendar and event management
- assignment submission uploads
- (some) content is simple to migrate
Con

- depends on other organizations
- very closed user group
- cannot link/bookmark/search into material from outside, i.e., no external validation
- no search facility
- (one-time) learning curve
- little leeway for individual style
Con: Gotcha!

- links must be absolute to course instance
- students can link into unreleased material from (any) calendar or journal
- few open file formats (name extensions)
- unstable upload (WebDAV)
- awkward editing, especially on Mac
- Safari is accepted but fails on some things