

Kielce: Configurable HTML Course Documents

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Many course documents differ in only a few, predictable ways from semester to semester.

CS163 Computer Science II

Fall 2011

CONTACT INFORMATION:

Instructor: Zachary Kurmas	Office: MAK C-2-312
Phone: 331-8688	Office hours: M 11-12 and 3 - 4
Home page: http://www.cis.gvsu.edu/~kurmasz	W 10-11; Th 1-2

TEXT:

- Java Foundations: Introduction to Program Design and Data Structures (2nd Edition).

PRE-REQUISITE:

CS 162 with a grade of C or better. Actually, I strongly encourage those who did not get at least a B in CS 162 to seriously consider taking 162 again before attempting this class.

IMPORTANT DATES:

- Drop Day: Friday, 28 October, 5:00 p.m.
- Final Exam: Saturday, 10 December, 9:00 a.m.

DROP DEADLINE:

The deadline for dropping this class with a grade of "W" is Friday, 28 October, 5:00 p.m. To drop a class you must drop the class yourself (e.g., using Banner). It is not sufficient to simply tell me that you are dropping or to stop attending class.

CS163 Computer Science II

Winter 2012

CONTACT INFORMATION:

Instructor: Zachary Kurmas	Office: MAK C-2-312
Phone: 331-8688	Office hours: M 3-4; Tu 1-2
Home page: http://www.cis.gvsu.edu/~kurmasz	W 10-11; Th 1-2

TEXT:

- Java Foundations: Introduction to Program Design and Data Structures (2nd Edition).

PRE-REQUISITE:

CS 162 with a grade of C or better. Actually, I strongly encourage those who did not get at least a B in CS 162 to seriously consider taking 162 again before attempting this class.

IMPORTANT DATES:

- Drop Day: Friday, 28 February, 5:00 p.m.
- Final Exam: Saturday, 22 April, 9:00 a.m.

DROP DEADLINE:

The deadline for dropping this class with a grade of "W" is Friday, 28 February, 5:00 p.m. To drop a class you must drop the class yourself (e.g., using Banner). It is not sufficient to simply tell me that you are dropping or to stop attending class.

Making these changes by hand is not difficult, but it can be error prone.

- It is easy to overlook a needed change.

Kielce is a JavaScript library that allows users to move content from the HTML file to a separate file.

HTML file

- Doesn't change often

Kielce data file

- All updates made here
- Most lines change each semester

```

<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">
<title>CS 163 --- Computer Science II</title>
<script type="text/javascript" src="kielce3.js"></script>
<link rel="stylesheet" type="text/css" href="coursePages.css">
</head>
<body>
<div>
<h2 style="text-align: center;">
<span key="coursePageTitle"></span><br/>
<span key="semesterName"></span>
</h2>
</div>
<dl>
<dt>Contact Information:</dt>
<dd key="contactInfoTable"></dd>
<dt>Text:</dt>
<dd>
<ul>
<li key="courseText.display"></li>
</ul>
</dd>
<dt>Pre-requisite:</dt>
<dd>
CS 162 <em>with a grade of C or better</em>. Actually, I strongly encourage those who did not get at least a B in CS 162 to seriously consider taking 162 again before attempting this class.
</dd>
<dt>Important Dates:</dt>
<dd>
<ul>
<li>Drop Day: <span key="dropDeadline"></span></li>
<li>Final Exam: <span key="finalExam"></span></li>
</ul>
</dd>
<dt>Drop Deadline:</dt>
<dd>
The deadline for dropping this class with a grade of "W" is <span key="dropDeadline"></span>. To drop a class <em>you</em> must drop the class yourself (e.g., using Banner). It is not sufficient to simply tell me that you are dropping or to stop attending class.
</dd>
</dl>
</body>
</html>
<script type="text/javascript">Kielce.run();</script>

```

```

({
  Override: {
    courseTitle: "Computer Science II",
    courseName: "CS 163",
    courseText: Kielce.Book.init("Java Foundations: Introduction to Program Design and Data Structures (2nd Edition)", "Lewis, DePasquale, and Chase", "0132128810"),
    finalExam: "Saturday, 22 April, 9:00 a.m.",
    coursePageTitle: function (data) {
      return data.courseName + " " + data.courseTitle;
    },
    semesterName: "Winter 2012",
    dropDeadline: "Friday, 28 February, 5:00 p.m.",
    contactInfoTable: '<style type="text/css"> .ciHeader {font-weight: bold }</style>' +
      '<table class="contactInfoTable" border=0 cellspacing=3 cellpadding=0 width="100%">' +
        '<COLGROUP>' +
          '<COL width="15%" align="left">' +
          '<COL align="left">' +
          '<COL width="15%" align="left">' +
          '<COL width="25%" align="left">' +
        '</COLGROUP>' +
        '<tr>' +
          '<td class="ciHeader">Instructor:' +
          '<td>Zachary Kurmas' +
          '<td class="ciHeader">Office:' +
          '<td>MAK C-2-312' +
        '</tr>' +
        '<tr>' +
          '<td class="ciHeader">Phone:' +
          '<td>331-8688' +
          '<td class="ciHeader">Office hours:' +
          '<td>M 3-4; Tu 1-2' +
        '</tr>' +
        '<tr>' +
          '<td class="ciHeader">Home page:' +
          '<td><a href="http://www.cis.gvsu.edu/~kurmasz" target="_top">http://www.cis.gvsu.edu/~kurmasz</a>' +
          '<td>' +
          '<td>W 10-11; Th 1-2' +
        '</tr>' +
        '</table>'
  }
});

```

Load JavaScript (points to script tag in HTML)

Method call on object (points to Kielce.run() in HTML)

Can use objects and methods to help format data (points to Kielce.Book.init in data file)

Data file can contain functions to calculate values. (points to coursePageTitle function in data file)

Semester-related data can go in a separate data file that is shared by all courses. (points to Override object in data file)

Perform desired substitutions (points to span key attributes in HTML)

Placing repeated data in a variable helps avoid consistency problems. (points to Kielce.run() in HTML)

- #### Advantages:
- Requires a single JavaScript file only
 - (nothing to "install")
 - Client-side browser does processing
 - No need to "pre-process" files
 - No need for special web server configuration
 - Can easily share Kielce-based documents with others. They need not know how to use Kielce.

- #### Advanced uses:
- Data items can be functions or objects. (They are not limited to simple strings.)
 - Functions and objects can automate formatting
 - Functions can automatically calculate dates based on beginning of semester

Download from

- <http://www.cis.gvsu.edu/~kurmasz/Software/Kielce>

- #### Other use:
- Reduces conflicting updates when several instructors share one assignment