Software Implementation & Testing (CS 556)  
Ref. No: 65535  
Spring 2016

Course Objective

- To examine a list of topics in software development and validation and conduct projects related to these topics.

Class Homepage


Instructor

- Prof. Fei Xie  
  Office: FAB 120-10  
  Phone: (503) 725-2403  
  Homepage: [http://www.cs.pdx.edu/~xie](http://www.cs.pdx.edu/~xie)  
  Email: xie@cs.pdx.edu

Office Hours

- By appointment

Prerequisites:

- Interests in software development and validation.

Meeting Time and Location

- F 9AM-11:40AM, EB 103

Textbooks

- There is no textbook for this class and reading materials will be provided for each topic.

Grading

- There will be 4 programming and testing projects. Each project account for 25% of final score.  
  o Project 1 – Open: Apr. 8; Due: Apr. 22  
  o Project 2 – Open: Apr. 22; Due: May 6  
  o Project 3 – Open: May 6; Due: May 20  
  o Project 4 – Open: May 20; Due: June 3  
- Class participation is required.  
  o Each missing class, 5% deduction.

Academic Integrity

- Academic misconducts will be handled according to the rules of the Department of Computer Science, Maseeh College of Engineering and Computer Science, and Portland State University.
Class Schedules

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<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>Week 1</td>
<td>Apr. 1</td>
<td>Development Tools</td>
<td>Hao Wu</td>
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<td>Week 2</td>
<td>Apr. 8</td>
<td>Web Services (Project 1)</td>
<td>Lai Xu</td>
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<td>Week 3</td>
<td>Apr. 15</td>
<td>Unit Testing</td>
<td>Shu-ping Chu</td>
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<td>Week 4</td>
<td>Apr. 22</td>
<td>Test Automation (Project 2)</td>
<td>Chris Havlicek</td>
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<td>Week 5</td>
<td>Apr. 29</td>
<td>Test Coverage</td>
<td>Bin Lin</td>
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<td>Week 6</td>
<td>May 6</td>
<td>Profiling (Project 3)</td>
<td>Li Lei</td>
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<td>Week 7</td>
<td>May 13</td>
<td>Debugging</td>
<td>Qin Wang</td>
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<td>Week 8</td>
<td>May 20</td>
<td>Continuous Integration (Project 4)</td>
<td>Zhenkun Yang</td>
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<td>Week 9</td>
<td>May 27</td>
<td>Static and Dynamic Analysis</td>
<td>Bo Chen</td>
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<td>Week 10</td>
<td>June 3</td>
<td>Fault Injection</td>
<td>Kai Cong</td>
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</tbody>
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(This schedule is subject to changes according to the need of the class.)