CS 536 Course Introduction

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Illinois Institute of Technology

January 13, 2014
Outline

1. Class Introduction
   - Instructor and TA Info
   - Pre-req for the Class
   - Course Info

2. Tentative Class Schedule and Important Dates
   - Class Schedule
   - Important Dates

3. Giving Credit Where the Credit is Due
Instructor and TA Info

Instructor

**Name:** Shangping Ren  
**Office:** 228E, SB  
**Office hours:** 8:30 – 9:30 and 11:30 – 12:30 on M/W  
**Contact info:** ren@iit.edu

TA

**Name:** TBD  
**Office:** TBD  
**Office hours:** TBD  
**Contact info:** TBD

How to get our quick response

In your email subject, please add the prefix **CS536:**
Pre-req for the Class

- You are proficient in at least one programming language
- You have strong background in discrete mathematics
- You want to learn more about advanced techniques of how to proof the correctness of programs.
- You are self-motivated and enjoy challenges
Course Load

Homeworks (30%, equally weighted):
- Four homework

Exams (70%, equally weighted):
- Three quizzes
- One Final

Final score calculation formula:

**Ph.D session:**
\[
\frac{\sum_{i=1}^{4} h_i}{4} \times 30\% + \frac{\sum_{i=1}^{3} q_i + f}{4} \times 70\%
\]

**Other sessions:**
\[
\frac{\sum_{i=1}^{4} h_i - \min\{h_1, \ldots, h_4\}}{3} \times 30\% + \frac{\sum_{i=1}^{3} q_i - \min\{q_1, q_2, q_3\} + f}{3} \times 70\%
\]
Final Grades

Letter Score:

\[ A \geq 85\% \]
\[ 70\% \leq B < 85\% \]
\[ 50\% \leq C < 70\% \]
\[ F < 50\% \]

It may globally be adjusted.

Rebuttal Period:

Once the homework or exam grades are released to you, you have one week period to rebuttal your grades. After the rebuttal period, your grades become final.
Homeworks and Exams

Homeworks

- The purpose of a homework is to help you learn and grasp the material taught in class.
- For homework, collaboration is allowed, but there is one limit: every student has to write their own solutions, no copy and paste.

Exams

The purpose of an exam is to measure your mastery of the material. For exams, no collaboration, nor referencing to textbook or class notes is allowed.
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Instructor’s/TA’s Responsibilities

My job is to provide an “optimal learning environment”.

- Assignments will be clearly written and administered.
- Questions will be answered in a timely fashion.
- Objectives of lectures and assignments will be clearly communicated.
- Grades will be fair, meaningful, and reflect mastery of course material.
  - C grade means “can reliably recognize the correct answer”.
  - A grade means “can reliably generate the correct answer”.
- If something is not going the way it should, let us know!
Your Responsibilities

Your job is to **learn**, using whatever resources available to you.

- Do the homework assignments in order to learn them
- Read textbook and lecture notes
- Prepare before and review after each lecture
- Attend lectures and actively participate in class discussions
Reference Books:


Outline of the Course:

- Preliminaries
- Sequential Deterministic Programs
- Object-Oriented Programs
- Parallel Programs
- Nondeterministic Programs
- Distributed Programs
- Fairness
# Class Schedule (tentative)

<table>
<thead>
<tr>
<th>Category</th>
<th>Number of sessions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preliminaries</td>
<td>4</td>
</tr>
<tr>
<td>Sequential Deterministic Programs</td>
<td>6</td>
</tr>
<tr>
<td>Object-Oriented Programs</td>
<td>2</td>
</tr>
<tr>
<td>Parallel Programs</td>
<td>4</td>
</tr>
<tr>
<td>Nondeterministic Programs</td>
<td>5</td>
</tr>
<tr>
<td>Distributed Programs and Fairness</td>
<td>3</td>
</tr>
<tr>
<td>In-class Exams</td>
<td>3</td>
</tr>
<tr>
<td>Q/A/flexible</td>
<td>2</td>
</tr>
<tr>
<td>Total sessions</td>
<td>29</td>
</tr>
</tbody>
</table>

**Table : Class Schedule**
<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>First class</td>
<td>Jan. 13</td>
</tr>
<tr>
<td>Martin Luther King Day</td>
<td>Jan. 20</td>
</tr>
<tr>
<td>Homework 1 (Preliminaries)</td>
<td>Jan. 31 at 11:59pm</td>
</tr>
<tr>
<td><strong>Exam 1 (Preliminaries)</strong></td>
<td><strong>Feb. 5, in class</strong></td>
</tr>
<tr>
<td>Homework 2 (SeqDP and OO)</td>
<td>Feb. 28 at 11:59pm</td>
</tr>
<tr>
<td><strong>Exam 2 (SeqDP and OO)</strong></td>
<td><strong>Mar. 5, in class</strong></td>
</tr>
<tr>
<td>Spring break</td>
<td>Mar. 17 to Mar. 22</td>
</tr>
<tr>
<td>Homework 3 (PP)</td>
<td>Mar. 28 at 11:59pm</td>
</tr>
<tr>
<td>Homework 4 (NonDP)</td>
<td>Apr. 11 at 11:59pm</td>
</tr>
<tr>
<td><strong>Exam 3 (PP and NonDP)</strong></td>
<td><strong>Apr. 16, in class</strong></td>
</tr>
<tr>
<td><strong>Final (Comprehensive)</strong></td>
<td>TBD by school schedule</td>
</tr>
</tbody>
</table>

**Table : Important Dates**
Late Policies

- Homework deadlines are **hard deadlines**, i.e., if you miss a deadline, you will get **zero** points for that homework.
- Rebuttal period is **one (1) week** from the date the homework/exam grades are announced. For the final exam, the rebuttal period is **two (2) days**. After rebuttal period, you can still talk to us about the grading, but your grades will not be changed.
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Some of the slides, homework and exam questions are directly from, or based on, the course materials from previous lecturers of this course, i.e. Professor Tzilla Elrad, Professor Mattox Beckman, and Professor James Sasaki.