Course: Object-Oriented Programming
物件導向程式設計(課程代碼：5905003)

Instructor: 陳偉凱(Woei-Kae Chen)
Office: 綜科館 311-2
Phone: (02) 2771-2171 Ext 4230
Email: wkc@csie.ntut.edu.tw
WWW: http://www.ntut.edu.tw/~wkchen
Office hours: Tuesday 2:00-3:00PM and 5:00-6:00PM; Wednesday 4:00-6:00PM.

2. Design Patterns, by E. Gamma, etc.

Reference books:
1. Designing Components with the C++ STL, by U. Breymann.

Prerequisite: C Language and Data Structures

Course Description:
This course investigates the principles, languages and environments, and elementary design methods for object-oriented programming. Students will be required to complete a term programming project. Course contents: Class and object, message passing, inheritance, composition, virtual methods and polymorphism, templates, object-oriented languages and environments, term project.

Scope:
- Procedural-based programming
- Object-based programming
- Object-oriented programming
- Generic programming
- Design patterns
- Unit testing

Grading:
There will be two exams (a midterm exam and a final exam). Homework assignments will be given every two weeks. All homework turned in should be work done by you alone. You may not work on homework with other people and you must acknowledge help received from any source except the text or the instructor.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>-</td>
<td>40%</td>
</tr>
<tr>
<td>Midterm</td>
<td>Nov. 06</td>
<td>30%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>Jan. 08</td>
<td>30%</td>
</tr>
</tbody>
</table>