California State University Northridge  
Department of Civil Engineering & Applied Mechanics  
CMT312/L: Project Cost Control, Planning, and Scheduling (2/1 units)  
Fall 2005

**Time**  
Lec: 13:00 – 13:50 p.m. MW  
Lab: 14:00-15:20 p.m.

**Location**  
JD1561  
JD 1565B

**Instructor**  
Mohamed Hegab, Ph.D., P.E.  
Office: EN 2309  
Tel: 677-7034  
Email: mhegab@csun.edu

**Course Web Page:**  
Go to WebCT page (http://webteach.csun.edu) and log on using your email and password, then click on the course link.

**Office Hours:** 1:00 p.m. to 3:45 p.m. M

**Catalog Description:**  
Basic application of construction cost control systems including critical path method techniques, planning, logic, scheduling and updating, and use of computer for scheduling. Use of cost information and associated reports for the planning and scheduling of construction projects. Two (2) hours of lecture-discussion per week and three (3) hours of technical activity-laboratory per week.

Lab: Primavera E&C Ver.4.1 will be practiced

**Course Prerequisite:** BLAW 280 and ACCT 220

**Outcomes**  
The student should have the following qualities by the end of this course:  
- Fundamental knowledge of construction planning and scheduling;  
- Understanding the relationships in construction industry and maintaining good communication skills;  
- Enhancing the ability to identify, analyze and solve scheduling and planning problems,  
- Applying Primavera E& C as a scheduling software;

**Text**  
- Harris, P.(2005) "Project Planning & Scheduling Using Primavera Version 4.1 for Engineering & Construction and Maintenance & Turnover(Spiral-bound)."  
  Eastwood Harris.

**Grade Distribution**  
Quizzes = 20%  
Assignments = 10%  
Exams (2@20%) = 40%  
Final Exam = 30%

**Grading Scale**  
A 90% - 100% A 85%- 89%  
B 80% - 84% B 75%- 79%
General Policies
- Attendance at all classes is expected. For known absences, students should make prior arrangements with the instructor to make up quizzes or tests.

Exam Policies:
• Anticipated exam time frame is specified below. If any of these dates represent a conflict, please notify the instructor for possible changes of exam dates.
• Quizzes are usually unannounced.
• Make-up tests and quizzes will be allowed for only exceptional circumstances and proven medical emergencies.
• Intermediate exams are not comprehensive. However, the final exam is comprehensive with emphasis on the latest material covered.

Assignment Policies:
• Consultation with other students for solving assignments is acceptable. But each student must report his/her work independently. All identical assignments may receive a score of zero on that assignment.
• Assignments are due by class time. one week from the date they are assigned
• Late assignments will receive point deduction at the rate of 10% per day. No assignment will be accepted after graded assignments are returned except for proven medical emergencies.
• Most exam problems will be similar to assignment problems. Therefore, solving assignments is a key in being successful in exams.

Students with Disabilities
Any students with disabilities or other special needs and who need special accommodations in this course, are invited to share these concerns or requests with the instructor as soon as possible.

Academic Dishonesty
All work in this course must be completed in a manner consistent with Section 41301, Title 5, California Code of Regulations, as published in the University Catalog.
**Agenda**

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Introduction</td>
<td>Ch1</td>
</tr>
<tr>
<td></td>
<td>Developing a Network Model</td>
<td>Ch2</td>
</tr>
<tr>
<td></td>
<td>Determining Activity Duration</td>
<td>Ch4</td>
</tr>
<tr>
<td></td>
<td>Precedence Diagrams</td>
<td>Ch3 &amp; Exam1</td>
</tr>
<tr>
<td></td>
<td>Arrow Diagram</td>
<td>Ch16</td>
</tr>
<tr>
<td></td>
<td>Resource Allocation &amp; Leveling</td>
<td>Ch6</td>
</tr>
<tr>
<td></td>
<td>Money &amp; Network Schedule</td>
<td>Ch7 &amp; Exam 2</td>
</tr>
<tr>
<td></td>
<td>Project Monitoring &amp; Control</td>
<td>Ch8</td>
</tr>
<tr>
<td></td>
<td>Impact of scheduling on Productivity</td>
<td>Ch11</td>
</tr>
<tr>
<td></td>
<td>Pert &amp; Linear Scheduling</td>
<td>Ch14 &amp; Ch15</td>
</tr>
</tbody>
</table>

* The schedule is subject to change by the instructor