CNET3190 Construction Scheduling (3 credit hours: 2+3)

Instructor: Zhenhua Huang
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Spring 2021
Meetings Place: Remote
Lab Place: Remote NTDP, F187

Course Description:
Principles, analysis and methodologies for construction planning and scheduling: emphasis on the role of project duration, resources, and costs. Topics include developing a network model, precedence diagrams, activity durations and cash floats, resource allocation and leveling, cash flow, monitoring and control, linear scheduling, and computer scheduling (PRIMAVERA).

Course Objectives:
By the end of the course, you be able to:

• Understand the concepts of project planning and scheduling.
• Know how to develop and analyze a network model.
• Understand the concepts of project duration, resources, and expenses.
• Know how to calculate and analyze the duration, the resource allocation, resource leveling, and cash flow.
• Know how to develop and analyze linear schedule.
• Know how to use PRIMAVRA to develop and analyze schedules and control the project progress.

Course Outcomes:
• ABET #1 an ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve well-defined engineering problems appropriate to the discipline

Course Requirements:
Attendance – Attendance is mandatory. More than 6 absences will be an “F” grade. Lectures, projects, and class discussions will contain vital information needed to do well on the exams.

Required text
Construction Planning and Scheduling (4th)
Jimmie W. Hinze

Exams: There will be THREE exams (this includes 2 quizzes and a final exam), each quiz worth 20 points. Exams will be based on text readings, handouts, class exercises, videos, and class lectures and discussions. Students are responsible for all text material, regardless of whether we review the text material in class or not.

Missed Exams: You will be allowed to make up a missed exam only if you have a documented university excused absence. If you know in advance that you will miss an exam, you MUST contact me before the scheduled exam. Make-up exams will not contain the same questions.

Assignments: In addition to the readings from the text, there will be writing assignments. No late assignments will be accepted. No emailed assignments will be accepted.

Grading Policy:
Grades will be based on:
Attendance, Participation, and Professionalism @ 10 = 10 pts
Homework and Primavera Assignment @ 10 = 10 pts
2 quizzes @ 20 = 40 pts
Project @ 10 = 10 pts
Final @ 30 = 30 pts

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100 pts

Extra credit: There is none.

Grade Distribution:
90 - 100 = A
80 - 89 = B
70 - 79 = C
60 - 69 = D
Below 60 = F

Disabilities Accommodation:
The University of North Texas complies with Section 504 of the 1973 Rehabilitation Act and with the Americans with Disabilities Act of 1990. The University of North Texas provides academic adjustments and auxiliary aids to individuals with disabilities, as defined under the law. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring accommodation, please see the instructor and/or contact the Office of Disability Accommodation at 940-565-4323 during the first week of class.

Course Schedule:

<table>
<thead>
<tr>
<th>This Class meets Monday</th>
<th>TOPIC</th>
<th>BOOK CHAPTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class Week 1</td>
<td>Intro/Bar Charts/Network Model</td>
<td>1,2</td>
</tr>
<tr>
<td>Class Week 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class Week 3</td>
<td>Precedence Diagram</td>
<td>3</td>
</tr>
<tr>
<td>Class Week 4</td>
<td>Duration</td>
<td>4</td>
</tr>
<tr>
<td>Class Week 5</td>
<td>Resource Allocation</td>
<td>6</td>
</tr>
<tr>
<td>Class Week 6</td>
<td>Quiz 1</td>
<td></td>
</tr>
<tr>
<td>Class Week 7</td>
<td>Resource Allocation</td>
<td>6</td>
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<tr>
<td>Class Week 8</td>
<td>Resource Allocation</td>
<td>6</td>
</tr>
<tr>
<td>Class Week 9</td>
<td>Resource Leveling</td>
<td>6</td>
</tr>
<tr>
<td>Class Week 10</td>
<td>Money</td>
<td>7</td>
</tr>
<tr>
<td>Class Week 11</td>
<td>Quiz 2</td>
<td></td>
</tr>
<tr>
<td>Class Week 12</td>
<td>Earned Value</td>
<td>10</td>
</tr>
<tr>
<td>Class Week 13</td>
<td>Linear Schedule</td>
<td>14</td>
</tr>
<tr>
<td>Class Week 14</td>
<td>Advance topic</td>
<td>15</td>
</tr>
<tr>
<td>Class Week 15</td>
<td>Project Presentation</td>
<td></td>
</tr>
<tr>
<td>Class Week 16</td>
<td>Final Exam</td>
<td></td>
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</tbody>
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