COURSE PREFIX: CET - 238   COURSE TITLE: Construction Planning and Scheduling

CONTACT HOURS: 4.0   CREDIT HOURS: 2.0

RATIONALE FOR THE COURSE:
This course is the study of planning, scheduling and controlling construction projects. Topics include the development of a project schedule, definitions of activity and durations, and the relationship between activities. Students will learn to prepare and update a computer based construction schedule.

COURSE DESCRIPTION:
This course covers the decision-making process involved in organizing the labor, materials, and equipment for a construction project.

PREREQUISITES:
Credit level CET 230 Minimum Grade of C

REQUIRED MATERIALS:
Flash drive for storage of electronic files.

ADDITIONAL REQUIREMENTS:
Basic knowledge of Microsoft Word and Excel

TECHNICAL REQUIREMENTS:
Use MS Project, a construction scheduling software.

Attention HGTC Students:
The faculty and administration of HGTC are committed to enhancing your learning experience at the College through improved methods of instruction and support services. For information on Student Support Services or questions about your curriculum program please refer to your Wavenet Homepage.

STUDENT COURSE LEARNING OUTCOMES
1. Describe construction activities, durations and activity relationships.
2. Prepare a network logic diagram.
3. Calculate activity durations and float time.
4. Identify the Critical Path Method (CPM).
5. Create a CPM bar chart schedule in MS Project.
6. Create a PERT schedule in MS Project.
7. Assign resources (labor, materials, equipment) in MS Project.
8. Assign costs to activities in MS Project.
9. Update and modify the construction schedule in MS Project.

REQUIRED COURSE MEASURES/ARTIFACTS:
Lab worksheets
Exams
# COURSE SCHEDULE

**Spring 2015**  
**Tuesday & Thursday**  
**3:30 PM – 5:25 PM**

<table>
<thead>
<tr>
<th>No.</th>
<th>Week</th>
<th>Topic</th>
<th>Text book Reading</th>
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<tbody>
<tr>
<td>1</td>
<td>1/12</td>
<td>Introduction to Scheduling</td>
<td>Chapter 1</td>
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<td>The Construction Schedule</td>
<td>Chapter 2</td>
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<td>2</td>
<td>1/19</td>
<td>Checklists</td>
<td>Chapter 3</td>
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<td>Bar Chart Schedules</td>
<td>Chapter 4</td>
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<td>3</td>
<td>1/26</td>
<td>Introduction to CPM Scheduling</td>
<td>Chapter 5</td>
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<td>4</td>
<td>2/2</td>
<td>Network Logic Diagram</td>
<td>Chapter 6</td>
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<td>5</td>
<td>2/9</td>
<td>Determining Durations</td>
<td>Chapter 7</td>
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<td>6</td>
<td>2/16</td>
<td>Start and Finish Dates</td>
<td>Chapter 8</td>
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<td>7</td>
<td>2/23</td>
<td>Calculating Float</td>
<td>Chapter 9</td>
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<td>8</td>
<td>3/2</td>
<td>Lags in Scheduling</td>
<td>Chapter 10</td>
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<td>9</td>
<td>3/9</td>
<td><strong>Midterm Exam</strong></td>
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<td>10</td>
<td>3/16</td>
<td>MS Project training-Schedule Analysis</td>
<td>Chapter 11</td>
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<td>11</td>
<td>3/23</td>
<td>MS Project training-Tabular Reports</td>
<td>Chapter 12</td>
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<td>3/30</td>
<td><strong>Spring Break</strong></td>
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<td><strong>Spring Break</strong></td>
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<tr>
<td>12</td>
<td>4/6</td>
<td>MS Project training- Schedule Updates</td>
<td>Chapter 14</td>
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<td>13</td>
<td>4/13</td>
<td>MS Project training</td>
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<td>14</td>
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<td>4/27</td>
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<td><strong>Final Exam</strong></td>
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EVALUATION OF REQUIRED COURSE MEASURES/ARTIFACTS

- Exams (2) 50 %
- Lab work and class attendance 50 %

100 %

GRADING SYSTEM:
Grading system as delineated in the Catalog.
- A= 90-100
- B= 80-89
- C= 70-79
- D= 60-69
- F= 0-59

INSTRUCTOR’S POLICY
1. No eating, drinking or smoking is allowed in the classroom.
2. Use of cell phones, I pads, or tablets is prohibited during lecture and exams unless used for teaching purposes.
3. Student leaving class without the instructor’s permission will be considered absent for the day.
4. Students are expected to attend every class. According to school policy, the student must attend a minimum of 80% of classes in order to receive credit for the course.
5. Students arriving after 10 minutes of class instruction will be considered tardy. Three unexcused tardiness represents one full absence.
6. Unjustified absences will count against class attendance. Student loses one of the five total points for each unjustified absence. Students must provide a valid and credible justification.
7. Excused absences are given at the sole discretion of the instructor.
8. Withdrawal policy as listed in the school catalog.
9. Make-up test policy. The student must take the exam at the testing center within five calendar days from the original exam date.
10. Classroom decorum policy. The student must display discipline and show respect for the instructor and peers in accordance with school policy.
11. Lab assignments will be collected on the due date. Late assignments may be collected within a week of the due date and subject to a deduction of points. No assignments will be accepted after the one-week grace period.
12. Students are advised to check their D2L account regularly to obtain course information and announcements during the semester.

Additional Information
Office Location: Bldg. 300, Room 304
Office Telephone Number: 843-349-5312
E-mail Address: orlando.arteaga@hgtc.edu
Office hours: Tuesday & Thursday 1-3 PM
Friday 8:30 AM – 12:30 PM