

Construction Scheduling

HCON 221 – January 2012



Class Description:

This course provides an introduction to precedence diagrams, activity networks, project float calculations, and critical path management specific to the heavy civil construction industry. The course focuses scheduling fundamentals and concludes with the use of scheduling software to prepare and adjust a project schedule

Location:

WEI Headquarters:
Haskell Business Center
1301 Fraser Street, Suite A3
Bellingham, WA 98229



Dates and Times:

The class is scheduled to run on **Tuesday and Thursday evenings at 6:00-9:00 PM from Jan 3rd to Jan 26th**. Providing (8) evening classes to cover the course material. Please see the Class Calendar on the third page for course details.

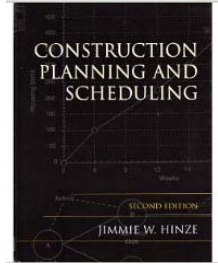
Tuition and Registration:

Tuition must be paid before the class begins. Program enrolled students have seniority for this class and should register online three-weeks before the class begins. Continuing education students may begin registering online two-weeks before the class begins. Students may also send class registrations by mail to the following address:

Washington Engineering Institute
1301 Fraser Street, Suite A3
Bellingham, WA 98229

School Provided Materials:

- **Lecture Notes:** The school provides lecture handouts as needed.
- **Construction Planning and Scheduling. ISBN: 9780130928610.** by Jim Hinze, Published by Prentice Hall.



Student Provided Materials:

- Laptop computer with wireless capability
- 3 Ring Binder
- Calculator and a small straight edge for linework
- Engineer calculations pad (green sheets)
- Positive, motivated, respectful, and helpful classroom character

Instructor

Dave C. Bren, PE, MSCE Civil Engineering Technology Instructor

Experience: 15 years of experience in the public and private civil engineering industry. Most recent experience was as the Assistant Public Works Director for the City of Blaine. Mr. Bren established and taught the Civil Engineering Technology program at Bellingham Technical College from 1997-2006 while continuing to consult in the industry.

Registration: Professional Engineer
State of Washington

Education: Master of Science in Civil Engineering
University of Washington

Bachelor of Science in Civil Engineering
University of Washington

Format:

Class Structure: Evenings will typically run in one-hour blocks as follows:

6:00 PM – Class setup and first hour
6:50 PM – Break
7:00 PM – Class
7:50 PM – Break
8:00 PM – Class last hour

Final Exam and Grades:

Program enrolled students will be graded by attendance (25%), assignments (%50), and a final exam (25%). The Instructor holds the sole authority to issue grades and shall issue grades based on a 4.0 schedule as follows.

Grading legend

4.0	A
3.7	A-
3.3	B+
3.0	B
2.7	B-

2.4	C+
2.0	C
1.7	C-
1.3	D+
1.0	D
0.7	D-

AU	Class audited with no grade earned
EXP	Experiential credit granted per policy
EDU	Prior education credit granted per policy
I	Incomplete – Instructor Allows Extra Time to Complete
W	Withdrawn from class

Jan 2012 – HCON 221 – Construction Scheduling

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
2	3 CH1 Bar Charts 6:00-9:00 PM Project Planning Defining Activities Gantt / Bar Charts Read CH 1-2	4	5 CH2 Network Modeling 6:00-9:00 PM Network Modeling Arrow Diagrams Read CH 3	6	7	8
9	10 CH3 Precedence Diagrams 6:00-9:00 PM Precedence Diagrams Read CH 4-5	11	12 CH4/5 CPM 6:00-9:00 PM Calculating Start & Finish Times Critical Path Management (CPM) Float Calculations Read CH 6	13	14	15
16	17 CH6 Resource Allocation 6:00-9:00 PM Activity duration estimation Resource Allocation	18	19 CH6 Resource Leveling 6:00-9:00 PM Project Monitoring and Control Read CH 7	20	21	22
23	24 CH7 Cash Flow Analysis 6:00-9:00 PM Cash flow analysis of schedule Logically reduce project on cost Computer Scheduling Read CH 8	25	26 CH8 Project Controls 6:00-9:00 PM Project Controls Short Interval Schedules Arrow Diagrams Final Exam	27	28	29



PO Box 483
 Custer WA 98240
admin@weiedu.org
 (360) 739-1428

Class Registration Form 2010 v2.0

Returning students with a Student ID do not need to fill out the gray portions of this form.

Name	
Address	
Phone	
Email	

Class Requested	HCON 221 – Construction Scheduling
Class Month / Date	January 2012

WAC 490-105-160 – State Licensed School Reporting Requirements:

Student ID #		
SSN #		
Date of Birth		
Gender		
Disability	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Race	<input type="checkbox"/> American Indian or Alaska Native <input type="checkbox"/> Asian <input type="checkbox"/> Black/African American <input type="checkbox"/> Hawaiian Native or Pacific Islander <input type="checkbox"/> Hispanic <input type="checkbox"/> White/Caucasian <input type="checkbox"/> Multi-racial <input type="checkbox"/> Other	
Prior Education	<input type="checkbox"/> Less than high school graduation <input type="checkbox"/> GED <input type="checkbox"/> High School Graduate <input type="checkbox"/> Post H.S., no degree or certificate <input type="checkbox"/> Associate Degree <input type="checkbox"/> Bachelor Degree <input type="checkbox"/> Master or Doctorate Degree	GED Year _____ Graduation Year _____ Graduation Year _____ Graduation Year _____ Graduation Year _____
Name of Last School Attended		

Student Signature

Date