

Construction Scheduling

HCON 221 – June 2011



Class Description:

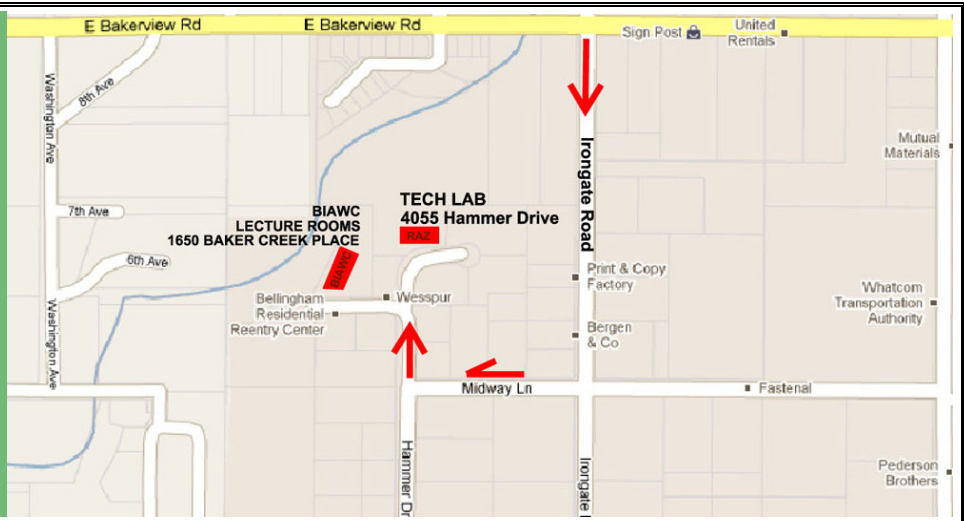
This course provides an introduction to precedence diagrams, activity networks, project float calculations, and critical path management specific to the heavy civil construction industry. The course focuses scheduling fundamentals and concludes with the use of scheduling software to prepare and adjust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

Location:

WEI CAD Lab:
4055 Hammer Drive, Suite B2
Bellingham, WA 98226

Directions:

East on Bakerview Road
Turn right onto Irongate Road
Turn right onto Midway Lane
Turn right onto Hammer Drive
Park in back of building



Dates and Times:

The class is scheduled to run on **Tuesday and Thursday evenings at 6:00-9:00 PM from May 31st to June 23rd**. This provides a total of (8) evening classes to cover the course material. Please see the Class Calendar on the third page.

Tuition and Registration:

Tuition for this class is \$400. 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
Registration Office
PO Box 483
Custer WA 98240

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:

- 3 Ring Binder
- Calculator
- Engineer calculations pad (green sheets)
- Small straight edge for linework.
- Laptop computer with wireless capability
- 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

June 2011 – HCON 221 – Construction Scheduling

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
30	31 Bar Charts Project Planning Defining Activities Gantt / Bar Charts A1: Enter Activities – MS Project	1	2 Network Modeling Network Modeling Arrow Diagrams	3	4	5
6	7 Precedence Diagrams Precedence Diagrams	8	9 CPM Calculating Start & Finish Times Critical Path Management (CPM) Float Calculations	10	11	12
13	14 Resources Activity duration estimation Resource Allocation	15	16 Controls Project Monitoring and Control	17	18	19
20	21 PERT Computer Scheduling PERT	22	23 Software Computer Scheduling	24	25 Exam 9:00AM-Noon Final Exam	26
27	28	29	30			
<h2 style="margin: 0;">Quarter End - One-Week Break</h2>						



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	June 2011

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