

Civil / Survey Industry Introduction

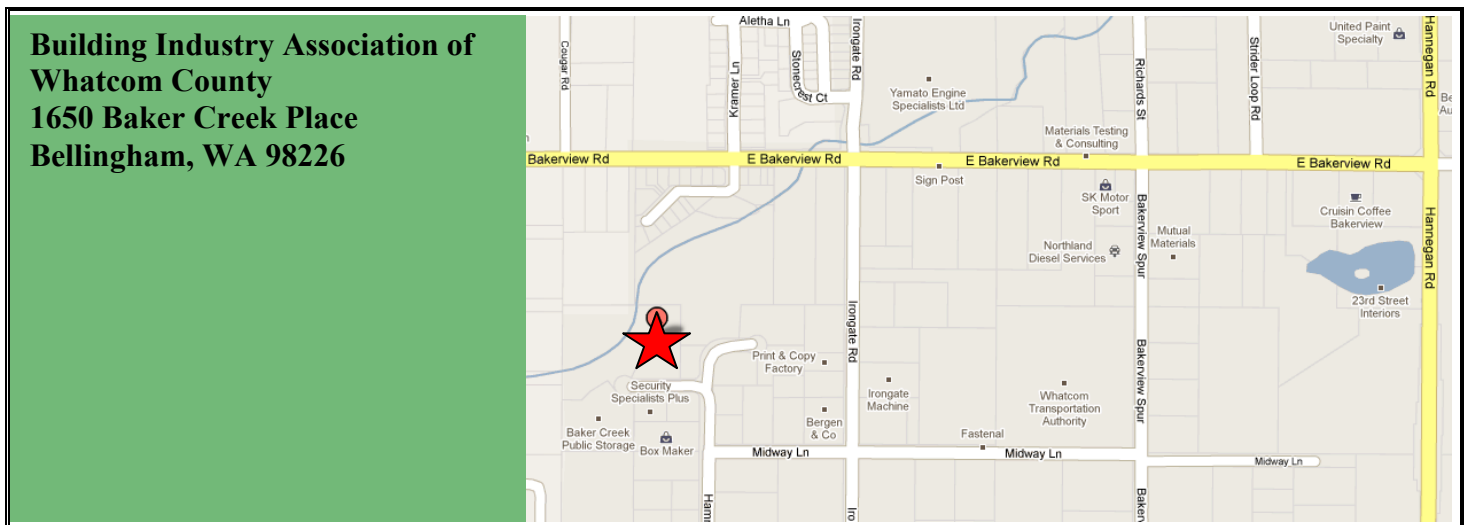
ENGR 101 – 3 Credits/Free – June 2010



Class Description:

This class provides an introduction to the Civil / Survey profession. Students will learn about the site survey, civil design, construction survey, construction inspection, and asbuilt survey process for development and public works projects. Students will learn about the various Civil / Survey jobs specialties including field inspector, party chief, chainman, COGO technician, civil engineering technician, surveying technician, civil designer, civil engineer in training, civil engineer, land surveyor in training, and land surveyor. Students will learn about the RCW/WAC regulations that govern the profession.

Location:



Dates and Times:

The class is scheduled to run on **Tuesday and Thursday evenings at 6:00-9:00 PM from June 1st to June 24th**. This provides a total of (8) evening classes to cover the course material. Please see the Class Calendar on the last page.

Capacity and Registration:

This class is limited to (20) students. Please send your completed registration form to the registration office as follows:

**Washington Engineering Institute
Registration Office
PO Box 483
Custer WA 98240**

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

School Provided Materials:

- **Hardware:** The school provides surveying equipment and a CAD lab during class exercises.
- **Software:** The school provides any needed software during class exercises.
- **Lecture Notes:** The school provides lecture handouts as needed.

Student Provided Materials:

- 3 Ring Binder, calculator, and engineers scale stick
- Positive, motivated, respectful, and helpful classroom character

Instructor

Dave C. Bren, PE, MSCE

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 instructed the Civil Engineering Technology program at Bellingham Technical College from 1997-2006 while continuing to consult in the industry. Mr. Bren continues to consult in the industry while teaching at the Washington Engineering Institute.

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:

Grades will be determined by attendance and character (100%).

June 2010 – Civil / Survey Industry Introduction – ENGR 101

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	1 Chapter 1 6:00-9:00 PM Civil Plans Reading Development Standards	2	3 Chapter 2 6:00-9:00 PM APWA Standards Storm, Sewer, Water Utilities	4	5	6
7	8 Chapter 3 6:00-9:00 PM Road Alignments Road Profiles Road Sections	9	10 Chapter 4 6:00-9:00 PM AutoCAD Lab	11	12	13
14	15 Chapter 5 6:00-9:00 PM Survey Equipment Lab	16	17 Chapter 6 6:00-9:00 PM Survey Maps Reading Survey Standards	18	19	20
21	22 Chapter 7 6:00-9:00 PM Heavy Construction Industry Heavy Equipment Construction Materials	23	24 Chapter 8 6:00-9:00 PM RCW / WAC Regulations Public and Private Careers Engineering School Overview	25	26	27
28	29	30				



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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	ENGR 101 – Civil / Survey Industry Introduction
Class Month / Date	June 2010

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