

Mechanical CAD Level 1

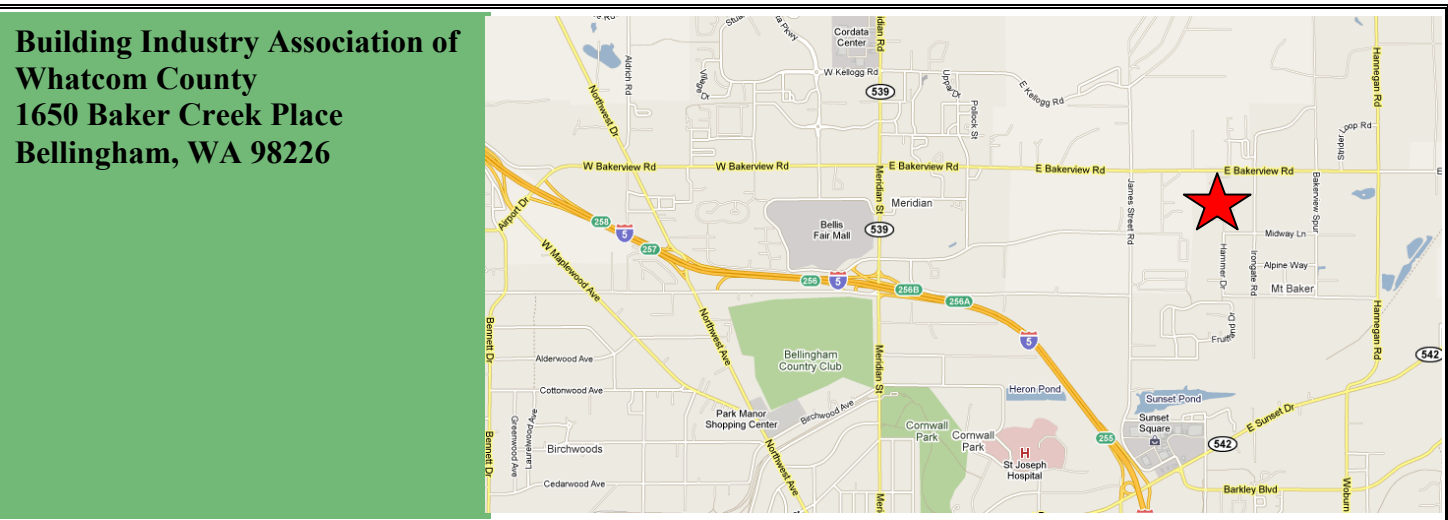
MECH 111 – 5 Credits/\$400 – November 2010



Class Description:

This is an entry level CAD class for the mechanical and manufacturing professions. Students will learn AutoCAD software by conducting mechanical industry applications. Thus students are learning fundamentals of the profession at the same time as learning CAD. Course material includes software interface, linework, text, coordinate systems, units, plotting, layering, properties, shape drawing, constructions, basic dimensioning, osnaps, filters, selections, display options, editing, polylines, and data query.

Location:



Dates and Times:

The class is scheduled to run on **Tuesday-Thursday evenings and Saturday Mornings** from **October 26th to November 27th**. This provides a total of (8) three-hour lecture classes to cover the course material. Please see the Class Calendar on the third page for details.

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**

Washington Engineering Institute, PO Box 483, Custer WA 98240

website: www.weiedu.org

email: admin@weiedu.org

phone: (360) 739-1428

School Provided Materials:

- **Temporary School Laptop:** Enrolled students should obtain their own laptop and install AutoCAD 2010/2011 as soon as possible. However, you may temporarily borrow a school laptop during lecture times, but you will not have it to study at home. Therefore, you should obtain a laptop as soon as possible. Please contact dbren@weiedu.org if you need to borrow a school laptop temporarily during lectures.
- **Lecture Notes:** The school provides lecture handouts as needed.

Student Provided Materials:

- **Personal Laptop:** Program enrolled students are required to have a laptop in order to conduct their program. Enrolled students should obtain their own laptop and install AutoCAD 2010/2011 as soon as possible.
- **AutoCAD 2010/2011 Student Download:** Students should download and license AutoCAD 2010/2011 to their laptop as part of the coursework for the class, through the Autodesk Education Community. Your instructor will provide a special link for you to download and license AutoCAD on the first night of class.
- **Reference Textbook:** Mastering AutoCAD MEP 2010 by Paul Aubin ISBN: 1439057664

Instructors

Josh Coray

Mechanical Engineering Technology Instructor

Experience: 22 years of experience with AutoCAD for 2D and 3D industrial design including piping, civil/structural, instrumentation, and mechanical design. Mr. Coray is currently a control systems designer for Anvil Corporation.

Education: University of Alaska, Kenai Peninsula College

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

Grades:

Grades will be determined by attendance character (30%) and class drawings projects (70%). 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
3.5	A-
3.3	B+
3.0	B
2.7	B-

2.4	C+
2.0	C
1.7	C-
1.4	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

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November 2010 – Mechanical CAD Level 1 – MECH 111

Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
25		26	Interface Basics	27		28		29		30	Lines, Points, Text	31	
		6:00-9:00 PM Discuss Student laptop AutoCAD Download & Licensing Interface Orientation								9:00-12:00 AM AutoCAD Interface Drawing Setup Lines, Points, and Text P1: 11x17 Titleblock			
1		2	MS Plotting	3		4	Blocks & Polylines	5		6	Osnaps	7	
		6:00-9:00 PM Drawing Orientation Layers and Properties Modelspace Plotting P2: Block Diagram / Scope of Work				6:00-9:00 PM Line and Text Editing Block Insertion & Exploding Polylines and Area Fills P3: Wave Tank Linework				9:00-12:00 AM Temporary & Running Osnaps Offset, Divide, & Measure Filters & Transparent Commands P4: Pneumatic Pump Details			
8		9	Dimensioning	10		11		12		13	PS Plotting	14	
		6:00-9:00 PM Dimensioning P5: Wave Tank Dimensioning				Veterans Day Holiday				9:00-12:00 & 1:00-4:00 PM Text Style and Importing Paperspace DVIEW and UCS P6: Wave Tank Plans			
15		16		17		18		19		20	CAD Lab	21	
										1:00-4:00 PM P7: Wave Tank Final Plans			
22		23		24		25		26		27	Optional CAD Lab	28	
						Thanksgiving Day Holiday				9:00-12:00 AM			



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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	MECH 111 – Mechanical CAD Level 1
Class Month / Date	November 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