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Course Goals and Objectives:

Students will gain an understanding of drawing piping, mechanical and electrical schematic diagrams and pictorial layouts. Students will demonstrate competency in creating logic diagrams, electronic and piping symbols, printed circuit boards and schematics. Students will also develop skills in piping, plumbing and HVAC drawing standards and practices.

Outcomes:

- Create standard plan and layout plant drawings
- Create standard piping shop drawings and fittings
- Identify HVAC components in drawings
- Create electrical layout drawings
- Identify various electronic drawing types

Required Text and Supplies:

Process Pipe Drafting, T.M. Shumaker, Goodheart-Willcox (**PPD**) **You do NOT need to buy this book. It is out of print and I have provided a link to it at the top of the Moodle page.**

Change book to Pipe Drafting by Roy Parisher, ebook central
<https://ebookcentral.proquest.com/lib/linnbenton-ebooks/reader.action?docID=858642&query=drafting>

Electronics Drafting, J. Frostad, Goodheart-Willcox (**ED**)

Evaluation:

- A: 100-90%
- B: 89~80%
- C: 79~70%
- D: 69~60%
- F: 59% or below

Grade Weighting

- Assignments: 90%
- Tests & Quizzes: 10%

Note: **Final is optional. Take your grade as-is or take final. Pass final (>79%), grade bump. (B to A, etc.) Less than 80% on final grade stays the same; no grade drop**

INCOMPLETE : By signed agreement, student requested. All coursework to be made up within a term.

Class Policies:

- **Success** in this program is easily attainable through the following:
 - Attend promptly every day
 - Inform the instructor of missed classes in advance
 - Work to the best of your ability
 - Be prepared
 - Conduct yourself respectfully
 - Care about what happens in class
 - If you miss a class you are responsible for assignments and due dates.
- All homework is due on posted due date
- Late homework is not accepted. For more information and exceptions, see the [late policy](#).
 - Exceptions may be made due to illness/accidents or other unusual circumstances
- NO LATE HOMEWORK.
- All testing will be done online.
- All homework is unique and original work created by the person named on the drawing for whom the homework is being turned in by. No part of the homework, except group projects, shall be copied, duplicated, shared or in any way represent work done by someone else. .
- LBCC is committed to inclusiveness and equal access to higher education. If you have approved accommodations through the Center for Accessibility Resources (CFAR) and would like to use your accommodations in this class, please talk to your instructor as soon as possible to discuss your needs. If you believe you may need accommodations but are not yet registered with CFAR, please visit the [CFAR website](#) for steps on how to apply for services or call 541-917-4789.
- You are held accountable to the [Student Code of Conduct](#), which outlines expectations pertaining to academic honesty (including cheating and plagiarism), classroom conduct, and general conduct.

Course Outline: (Note: This may change and is not all inclusive)

Week 1:	Pipe Overview & Fittings	PPD: 1, 2
Week 2:	Valves & Pumps	PPD: 3, 4
Week 3:	Equipment & Flow Diagrams	PPD: 5
Week 4:	Plans & Elevations	PPD: 6
Week 5:	Isometrics & Spool Diagrams	PPD: 8, 9
Week 6:	HVAC, Midterm	Handout

Week 7:	Print reading, Fundamentals, Diagrams	ED: 1, 2
Week 8:	Symbols & Diagrams	ED: 3, 4, 5
Week 9:	Circuit Boards	ED: 6, 7
Week 10:	Enclosures & Pictorial Drawings	ED: 8 & 9
Week 11:	Final, Tuesday, 12:30p-3:20p	

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