

El Camino College
Machine Tool Technology MTT-2-7670
Manufacturing Print Reading

Instructor – Mr. Griffin
August 27 – December 10, 2013
Tuesday 7:00 – 10:10 pm
Communications Building Room 101

Phone: (310) 660-3593 x4264 (email preferred)
Email: magriffin@elcamino.edu
Web: www.SouthBayMachine.com/MTT2.htm

*Office meetings held before or after class and by appointment

Text and Materials

Required

- Text “Print Reading for Industry” WC Brown & RK Brown 9th Edition
- 3 Ring Binder and Notebook Paper
- Pen with Blue or Black Ink, Pencil, Eraser
- Internet Access and Email

Recommended

- Casio FX300MS Scientific Calculator
- 6 Inch Steel Rule
- USB 2.00 Flash Drive
- AutoDesk Inventor CAD Software

Catalog Description

Prerequisite – None Lecture – 3 Hours Units – 3 Letter grade or credit/no-credit option

Students are introduced to engineering drawings and engineering specifications used in manufacturing industries. Representative drawings from simple production to complex assembly will be used to demonstrate concepts and for practice in interpreting the symbols and notations. Geometric Dimensioning and Tolerancing (GD&T) in accordance with American National Standards Institute (ANSI) Y-14.5 standard and the sketching of simple machine parts are also discussed.

Topics for Study

Language of Industry	Alphabet of Lines	Orthographic Projection	Auxiliary Views
Dimensions & Tolerances	Sectional Views	Pictorial Drawings	Title Blocks
Drawing Notes	Screw Thread Representation	Machining Processes	GD&T
Gears, Splines & Serrations	Numerical Control Documents	Welding Prints	

Student Learning Outcome

Using a sample part, sketch object-lines, missing-lines and views using proper sketching techniques.

Weekly Class Schedule

Sign-In / Taking of Attendance	Review Material
Grade and Turn-In Homework	Quiz
Lecture	Worksheets and Skills Practice
Class Discussion	Sign-Out / Taking of Attendance

* Class schedule and subject matter will change due to resource availability and requirements.

Classroom Conduct

Turn off cell phones – No cell phone use in the classroom.	Raise hand to speak during lectures.
Turn off laptops and all other electronics.	Sign-in and out on time.
Use only Blue or Black Ink in class and on class work.	Save social talk for break-time or outside of class.
Work that is soiled or has excessive, obnoxious or irrelevant comments and/or markings will not be accepted for credit.	Keep a Course-Outline on-hand and in your binder.
No outside work, reading, or projects during class.	Meet or exceed El Camino College standards of conduct.

Attendance

Attendance will taken through a sign-in sheet that will be collected at the very beginning and at the end of each class. Students absent during the first class meeting, or who are absent during the Taking-of-Attendance 5 (five) or more times during the semester may be dropped from the class by the instructor. Upon missing the 5th Taking-of-Attendance it is the student’s responsibility to schedule a meeting with the instructor for the evaluation of overall classroom progression and the possibility of an exception to be made for continued enrollment in the class.

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Participation

Participation scores will be based on the student's classroom conduct, preparedness for class, willingness to follow direction, examination of your lecture notes and required materials and participation during class activities and discussion.

Homework and Assigned Readings

Assigned Reading and Homework for the following week will be announced in class and posted online at www.SouthBayMachine.com/MTT2.htm Homework is due at the beginning of class on the due date indicated. Late homework will not be accepted unless special arrangements are made with the instructor.

Tests and Quizzes

Test and Quiz material will come from Assigned Readings, Links and Lecture Subjects.

Extra Credit

Extra Credit projects worth 5% of the class grade will be made available to students who wish to take advantage of them. Requirements and conditions of the extra credit assignments will be announced in class and posted online. These assignments will closely track the subject matter of the class at the time they are announced. Extra Credit projects need to meet all posted conditions and will not be accepted after the Due Date.

Evaluation/Grading Information

	Percentage of Grade	Grading Scale
Class Participation & Conduct	10%	90% - 100% = A
Homework Assignments	20%	80% - 89% = B
Quizzes	20%	70% - 79% = C
Mid-Term Examination	20%	55% - 69% = D
Final Examination	30%	Below 55% = F
Extra-Credit Projects	5%	

Important Dates

August 27	First Day of Class
September 3	First Quiz and Homework Due
September 6	Last Day to Add Class
September 6	Last Day to Drop Without Record
October 10	Last Day to Apply for Graduation or Certificate
October 22	Mid-Term Exam
November 15	Last Day to Drop With a "W"
November 28 - December 1	Campus Closed for Thanksgiving
December 10	Final Exam

Disability

El Camino College adheres to all applicable Federal, State and Local laws, regulations and guidelines with respect to providing reasonable accommodations for students with temporary and permanent disabilities. If you have a disability that may adversely affect your work in this class, I encourage you to register with the Special Resource Center (SRC) and talk to me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. Note: For more information about the Special Resource Center, please call 310-660-3295 or visit (SRC) Room F-10.

Administrative Cards

Skills Assessment
Emergency Release