

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

Instructor – Mr. Griffin
August 26 – December 9, 2014
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

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|---|--|
| 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% | 69% - 79% = C |
| Mid-Term Examination | 20% | 55% - 68% = D |
| Final Examination | 30% | Below 55% = F |
| Extra-Credit Projects | 5% | |

Important Dates

| | |
|------------------|---|
| August 26 | First Day of Class |
| September 2 | First Quiz and Homework Due |
| September 5 | Last Day to Add Class |
| September 5 | Last Day to Drop Without Record |
| October 10 | Last Day to Apply for Graduation or Certificate |
| October 21 | Mid-Term Exam |
| November 14 | Last Day to Drop With a "W" |
| November 27 - 30 | Campus Closed for Thanksgiving |
| December 9 | 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