

El Paso Community College

Syllabus

Part II

Official Course Description

SUBJECT AREA	<u>Machining Technology</u>
COURSE RUBRIC AND NUMBER	<u>MCHN 1335</u>
COURSE TITLE	<u>Grinders, Outside, Internal, Surface</u>
COURSE CREDIT HOURS	<u>3 2 : 4</u>
	Credits Lec Lab

I. Catalog Description

Provides an introduction to types and operation of outside diameter, internal diameter, and surface grinders. Emphasizes identification, selection, and replacement of grinding wheels. **(2:4). Lab fee.**

II. Course Objectives

Upon satisfactory completion of this course, the student will be able to:

- A. Identify parts and functions of surface grinders.
- B. Prepare surface grinder for operation.
- C. Identify various grinding wheels.
- D. Perform dressing and truing operations
- E. Perform ring test.
- F. Inspect magnetic chucks.
- G. Set up surface grinder (safety).
- H. Select grinding wheel for various metals.
- I. Perform wet grinding operations.
- J. Perform dry grinding operations.
- K. Utilize precision/sine vise.
- L. Perform radius and angle dressing.
- M. Utilize grinding accessories.
- N. Organize work area.
- O. Determine tolerances.
- P. Practice time management.
- Q. Use personal safety attire.
- R. Use Indicators.
- S. Evaluate part for accuracy.
- T. Perform regular housekeeping.
- U. Utilize go/no go gauges.
- V. Select appropriate materials.
- W. Perform preventive maintenance.
- X. Utilize digital readout.
- Y. Utilize optical comparator.
- Z. Utilize surface plate.

III. THECB Learning Outcomes (WECM)

1. Proper wheel identification, select proper mounting procedures for different grinder types, demonstrate proper balancing techniques.
2. Demonstrate safe setup and operations.

IV. Evaluation

A. Pre-Assessment

Students may request pre-assessment for the purpose of challenging this course. Any exam given for this purpose will contain a written exam as well as a practical laboratory exam.

B. Challenge Exam

Students who wish to challenge the course should contact the Testing Center and Division Dean. Challenges must be accomplished before the census cut-off date. Students who previously have received a “W” or a letter grade for the course are not eligible to challenge the course. Student must score a minimum of 85% in order to successfully challenge this course.

C. Post-Assessment

1. The instructor will maintain a continuous record of each student’s progress on an institutionally approved grade sheet or computerized substitute. All instructors must keep records in such a way that information would be clear to a second party having to check grade computation in special cases. An explanatory legend should be provided on the grade sheet.
2. The final project will count at least 20% (percent) of the course grade. This part of the grade should reflect evaluation of the various surface grinding assignments. It is up to the individual instructor to decide how much he/she will weigh these measuring steps, but under no circumstances should the instructor base the entire grade solely on the completed final product.
3. Assignments, exams, and surface grinding projects will count for 80% (percent) of the course grade.
4. The instructor is required to schedule an appropriate activity for the final exam period. The completed exams and projects should be sufficient to demonstrate mastery of course content. The following are some suggested uses of the final exam period:
 - a. Students can take a previous exam and review major sections.
 - b. Students can view an appropriate audio-visual presentation.
 - c. Students can meet with the instructor to review their course work.

D. Remediation

1. Students needing assistance with assignments should contact the instructor.
2. Make-up work and retakes of quizzes may be provided at the instructor’s discretion.

E. Grading Criteria: The following grading criteria will be utilized.

Course Activities	20%
Exam #1	10%
Exam #2	10%
Course Projects	40%
Final Project	20%

F. Grading Scale

90 – 100	=	A
80 – 89	=	B
70 – 79	=	C
60 – 69	=	D
0-59	=	F
Incomplete	=	I
Withdrew or Withdrawn	=	W

V. Disability Statement (Americans with/Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

VI. 6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.

VII. Title IX and Sex Discrimination

Title 9 (20 U.S.C. 1681 & 34 C.F.R. Part 106) states the following "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity receiving Federal financial assistance." The Violence Against Women Act (VAWA) prohibits stalking, date violence, sexual violence, and domestic violence for all students, employees and visitors (male and female). If you have any concerns related to discrimination, harassment, or assault (of any type) you can contact the Assistant to the Vice President for Student and Enrollment Services at 915-831-2655. Employees can call the Manager of Employee Relations at 915-831-6458. Reports of sexual assault/violence may also be reported to EPCC Police at 915-831-2200.