

El Paso Community College

Syllabus

Part II

Official Course Description

SUBJECT AREA	<u>Advanced Technology Industrial Manufacturing</u>
COURSE RUBRIC AND NUMBER	<u>RBTC 1245</u>
COURSE TITLE	<u>Robotic Interfacing</u>
COURSE CREDIT HOURS	<u>2 1 :<!-- 4</u--> Credits Lec Lab</u>

I. **Catalog Description**

Studies the basic principles of robot controllers, controller input/output, memory, and interfacing with computer integrated manufacturing. **Prerequisite: RBTC 1305. (1:4). Lab fee.**

II. **Course Objectives**

- A. Demonstrate techniques of industrial robot interfacing
- B. Interface equipment to enhance performance
- C. Diagnose interfacing problems
- D. Solve interfacing problems
- E. Manipulate automated equipment.

III. **THECB Learning Outcomes (WECM)**

- 1. Apply interfacing techniques on industrial robotic systems to enhance performance capacity.
- 2. Diagnose and solve issues encountered.

IV. **Evaluation**

The knowledge and skills stated in the objective must be demonstrated by the students in the form of tests and assignments in order to complete the course. Tests (50%) and lab assignments (50%) will be averaged, and letter grades will be assigned as follows:

90-100	A
80-89	B
70-79	C
60-69	D
0-59	F

Students should be able to compute their grade average anytime during the course. Missed assignments and make-up tests will be given at the discretion of the instructor.

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.