

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	<table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;"><u>2</u></td> <td style="text-align: center;"><u>1</u></td> <td style="text-align: center;"><u>:</u></td> <td style="text-align: center;"><u>4</u></td> </tr> <tr> <td style="text-align: center;">Credits</td> <td style="text-align: center;">Lec</td> <td></td> <td style="text-align: center;">Lab</td> </tr> </table>	<u>2</u>	<u>1</u>	<u>:</u>	<u>4</u>	Credits	Lec		Lab
<u>2</u>	<u>1</u>	<u>:</u>	<u>4</u>						
Credits	Lec		Lab						

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.