

**Industrial Mechanics and Maintenance Technology
Robotics Specialization
Associate of Applied Science**

Texas Southmost College
Division of Science Technology, Engineering and
Mathematics

The Associate of Applied Science in Industrial Mechanics and Maintenance Technology (IMMT)- Robotics Specialization helps students develop skills in many areas related to robotics, including installation, interfacing, programming and maintenance of robotic cells. Employment opportunities include robot technician, instrument and automation technician, programmable logic controllers technician. Students who enroll and successfully complete RBTC 1343 Robotics must also enroll and successfully complete RBTC 1347 Electro-Mechanical Devices and RBTC 2345 Robot Application, Set-up, and Testing to graduate with the Robotics Specialization.

FIRST YEAR - FALL SEMESTER	CREDIT HOURS
ENGL 1301 ⁺ Composition I	3
CETT 1302 ⁺ Electricity Principles.....	3
INMT 1305 ⁺ Introduction to Industrial Maintenance	3
DFTG 1325 ⁺ Blueprint Reading and Sketching.....	3
RBTC 1343 ⁺³ Robotics.....	3

FIRST YEAR - SPRING SEMESTER	
RBTC 1347 ⁺³ Electro-Mechanical Devices.....	3
ELMT 1305 ⁺ Basic Fluid Power.....	3
WLDG 1307 ⁺ Introduction to Welding Using Multiple Processes.....	3
INTC 1341 ⁺ Principles of Automatic Control.....	3
MATH 1332 ⁺ Contemporary Mathematics (Quantitative Reasoning)	3

SECOND YEAR - FALL SEMESTER	
ELMT 1301 ⁺ Programmable Logic Controllers.....	3
ELPT 1341 ⁺ Motor Control	3
HYDR 1345 ⁺ Hydraulics and Pneumatics	3
INMT 2301 ⁺ Machinery Installation.....	3
XXXX X3XX ¹ Social and Behavioral Sciences Electives.....	3

SECOND YEAR - SPRING SEMESTER	
SPCH 1315 ⁺ Public Speaking <i>or</i>	
SPCH 1318 ⁺ Interpersonal Communication	3
RBTC 2345 ⁺³ Robot Application, Set-up, and Testing.....	3
ELMT 2339 ⁺ Advanced Programmable Logic Controllers.....	3
INMT 2345 ⁺ ² Industrial Troubleshooting	3
XXXX X3XX ¹ Creative Arts Elective.....	3

TOTAL CREDIT HOURS FOR GRADUATION – 60

⁺ Grade of “C” or better is required for graduation.

¹ Students may take any course within this category of the TSC General Education Core Curriculum.

² This is a capstone course.

³ Students who enroll and complete RBTC 1343 must enroll and successfully complete RBTC 1347 and RBTC 2345 to graduate with the robotics specialization.