

First Year

Semester 1

9 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*
ENGR 312 Engineering Graphics	3		
MITECH 300 Introduction to Manufacturing and Industrial Technology	3		
MITECH 311 Introduction to Mechanical Inspection	3		

Semester 2

9 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*
MITECH 312 Intermediate Mechanical Inspection or	3	MITECH 311	
MITECH 303 Tool and Fixture Design	3	ENGR 312	
MITECH 313 CMM Operation and Programming	3		
MITECH 310 Quality Systems	3		

Notes:

The Certificate of Achievement Quality Technician prepares the student with skills specializing in quality control. Content includes inspection, testing, and evaluation of parts, products, equipment, and processes for adherence to specifications. Also included in this program is the programming of Coordinate Measurement Machines (CMM) and non-destructive testing (NDT). NDT curriculum is based on the American Welding Society (AWS) standards and the mechanical inspection curriculum is based on National Institute of Metalworking Standards (NIMS) certification in the mechanical inspection. The skills learned in this program also fall into the Society of Manufacturing Engineers (SME) core competency framework.

Zero Textbook Costs (ZTC):

The Zero Textbook Costs designation and logo are added to any course that provides free access to all required instructional materials. These are typically shared with students through Canvas. Courses that are designated as ZTC may still require students to purchase supplemental materials such as lab coats, a calculator, art supplies, etc. See full definitions and searching tips on the [Zero Textbook Costs page](#) of the college website.