

# Gateway S.M.A.R.T. Plan

## Certificates: Manufacturing Engineering Technology

Note that there may be course changes with future curriculum revisions that affect a change in course requirements listed on this sheet.

### Enhanced Operator I: 6 Total Credit Hours

Courses	Cr	Grade	Offered
IET 1304 Problem Solving	1		
IET 200 General Tools	1		
ISX 1001 Safety & Universal Precaution	1		
MFG 175 Lean Operations	2		
WPP 2001 Soft Skills	1		

### Enhanced Operator II: 8 Total Credit Hours

Courses	Cr	Grade	Offered
BRX 120 Basic Blueprint Reading	3		
CMM 118 Metrology/Control Charts	2		
QMS 101 Introduction to Quality Systems	3		

### Fundamentals of Mechatronics: 11 Total Credit Hours

Courses	Cr	Grade	Offered
ELT 110 Circuits I (pre-req for MFG 135)	5		Fall/Spring
MFG 135 Fundamentals of Mechatronics (Fall – Day classes; Spring – Evening classes)	6		Fall/Spring

### Integrated Manufacturing Technologies: 19 Total Credit Hours

Courses	Cr	Grade	Offered
EET 270 Electrical Motor Controls I	2		
EET 271 Electrical Motor Controls I Lab	2		
ELT 110 Circuits I	5		
FPX 100 Fluid Power	3		
FPX 101 Fluid Power Lab	2		
IMT 150 Maintaining Industrial Equipment I	3		
IMT 151 Maintaining Industrial Equipment I Lab	2		

### Notes

- Progression in the program is contingent upon achievement of a grade of C or greater in each technical course and maintenance of a 2.0 cumulative GPA or above (on a 4.0 scale).
- At least 25 percent of the approved curriculum for any certificate, diploma or degree must be completed at the student's home college.

Updated 4/3/20



**GATEWAY**  
COMMUNITY  
& TECHNICAL COLLEGE