

## ■ LEAN MANUFACTURING CERTIFICATE (LEAN)

Lean and agile production is the systematic approach of identifying and eliminating waste through continuous improvement techniques. A lean enterprise produces more with existing resources by eliminating non-value added activities. This certificate allows students to upgrade skills through training in the lean and agile production system.

### REQUIRED COURSES

COURSE NO.	COURSE TITLE	CREDITS
<input type="checkbox"/> MAPR 1200	Lean Manufacturing	5
<input type="checkbox"/> ENGL 1005 <b>OR</b>	Fundamentals of Writing <b>OR</b>	3
<input type="checkbox"/> ENGL 1010*	Composition I	
<input type="checkbox"/> ENGL 2100*	Technical Writing	3
<input type="checkbox"/> ENGL 1000*	Seminar on Student Success	1
<input type="checkbox"/> BUSN 1000	Workplace Relationship Skills	3
<input type="checkbox"/> MATH 0600*	Elementary Algebra	0
	<b>OR</b> Any MATH above MATH 1000	3
<b>Total Certificate Requirements</b>		<b>12-15</b>

\*Placement test required

Note: MATH 0600 is a 3-in-house-credit course and is not transferable

## ■ MANUFACTURING ENGINEERING TECHNOLOGY CERTIFICATE (MANC)

KNIGHT CAMPUS, WARWICK

Manufacturing engineering are responsible for determining the most competitive way to manufacture a product. The certificate in Manufacturing Engineering Technology is a comprehensive program that gives students a strong foundation of technical skills and knowledge needed for employment in fields such as production, planning and control, quality control, process control production methods, technical sales, product development and safety. The courses in this certificate program can be applied toward an associate degree in Mechanical Engineering Technology.

### MAJOR REQUIREMENTS

COURSE NO.	COURSE TITLES	CREDITS
<input type="checkbox"/> ENGR 1030	Engineering Graphics	3
<input type="checkbox"/> MNFG 1010	Introduction to Robotics	3
<input type="checkbox"/> ENGT 2310	Statistics & Quality Control	3
<input type="checkbox"/> MATH 1700* <b>P</b>	Algebra for Technology	4
<input type="checkbox"/> MATH 1710* <b>P</b>	Trigonometry for Technology	4
<input type="checkbox"/> ENGT 1020	Manufacturing Processes	2
<input type="checkbox"/> MAPR 2330	Cost Estimating	3
<input type="checkbox"/> BUSN 2150	Principles of Production Management	3
<input type="checkbox"/> ENGT 2930	Industrial Materials	3
<b>Total Certificate Requirements</b>		<b>26</b>

\*Placement test required