MINOR IN MANUFACTURING

Program Contact: Lynn Byers (lynn.byers@quinnipiac.edu) 203-582-5028

The manufacturing minor is for mechanical engineering students who seek a career in manufacturing. Students will learn about design for manufacturing, manufacturing processes and robotics systems. This minor will prepare students to solve manufacturing problems and improve current manufacturing processes. Students will be able to apply appropriate theories and methods to analyze and design manufacturing technologies and systems within realistic constraints (e.g., economic, manufacturability, sustainability, environmental) and communicate effectively about manufacturing engineering problem solutions, technologies and system designs.

Code	Title Cred	its	
Required Courses			
MER 250	Computer Aided Design	3	
or IER 250	Computer Aided Design		
MER 340	Manufacturing/Machine Component Design	3	
MER 340L	Manufacturing/Machine Component Design Lab	1	
MER 490	Engineering Professional C Experience)-1	
or IER 490	Engineering Professional Experience		
Select one of	the following tracks		
1. Mechatroni	ics/Robotics		
Required Cou	rse		
MER 475	Mechatronics	3	
Select two of	the following courses	6	
IER 220	Production Systems (MER 225)		
IER 230	Lean Systems Engineering (MER 235)		
IER 240	Physical Human Factors and the Workplace (MER 245)		
or IER 2	6& Cognitive Human Factors and the Workplace (MER 265)		
IER 360	Operations Planning and Control		
IER 370	Industrial Robotics (MER 375)		
IER 375	Statistical Process Control		
2. Production	and Process Improvement		
Take three of	the following coures	9	
MER 380	Advanced Solid Modeling		
IER 220	Production Systems (MER 225)		
IER 230	Lean Systems Engineering (MER 235)		
IER 240	Physical Human Factors and the Workplace (MER 245)		
or IER 2	6Cognitive Human Factors and the Workplace (MER 265)		
IER 360	Operations Planning and Control		
IER 370	Industrial Robotics (MER 375)		
IER 375	Statistical Process Control		
3. Engineering	g Management		

Take the following two courses

IER 401	Introduction to Engineering Management	3
IER 402	Engineering Quality Management & Decision Making	3
Take one of th	e following courses	3
IER 230	Lean Systems Engineering (MER 235)	
IER 280	Data Analytics I	
IER 375	Statistical Process Control	