

# TECHNOLOGY STUDIES: MECHATRONICS AUTOMATION TECHNICIAN, AS

Program code: MTCH-AS-COT

Location: Quinebaug Valley

## Degree Requirements

Code	Title	Credits
<b>Technology Studies General Education Core</b>		
ENG 1010	Composition	3
MATH 1610	Precalculus	4
ART Elective (course vetted for ARHX)		3
CHEM 1110	Concepts of Chemistry	4
or CHEM 1210	General Chemistry I	
Elective HISX - Historical Knowledge Course or Elective SBSX course in ECON		3
ENG 1080	Composition II: Technical Writing	3
or COMM 1301	Public Speaking	
CCS 1001	College and Career Success	3
<b>Technology Studies Program Core</b>		
PHYS 1201	General Physics I	4
or PHYS 2201	Calculus-Based Physics I	
Elective BHEL - Behavioral Science Elective - choose an ANTH, PSY or SOC course		3
MATH 1200	Statistics I	3-4
or MATH 1201	Statistics I with Computer Applications	
<b>Mechatronics Automation Technician Courses</b>		
MFG 1330	Mathematics for Electricity and Electronics	3
MFG 1337	Circuit Theory	3
or MFG 1362	CNC Maintenance and Repair	
MFG 1338	Digital Fundamentals	3
MFG 1340	Robotics	3
MFG 1342	Electronic Circuits and Devices	3
MFG 1343	Industrial Motor Controls	3
MFG 1344	Hydraulics and Pneumatics	3
MFG 1345	Electronic Variable Speed Drive	3
MFG 1346	Programmable Logic Controllers	3
MFG 1359	Industrial Maintenance	3
MFG 1415	Safety in the Workplace	1
<b>Total Credits</b>		<b>64-65</b>