

# ASSOCIATE OF APPLIED SCIENCE DEGREE

## ROBOTICS & AUTOMATION TECHNOLOGY

Length: 20 Months

*Program length includes 8 break-weeks and class time for Review Math and Basic English if required.*

Students in this program will prepare for entry-level positions in the manufacturing industry by acquiring both the technical and management education currently applicable to the industry. They will also take a core of general education courses to augment their technical education.

**MISSION STATEMENT:** The Robotics & Automation Department's mission is to provide students with technical training that will prepare them for entry-level positions in building, programming, and maintaining robotics and automation systems, preparing them for a rewarding career in the continually evolving manufacturing industry.

<u>Technical Requirements</u>	<u>Instructional Hours</u>	<u>Credit Hours</u>
RA110 Automation Mechanical	120	6
RA115 Fluid Power	120	6
RA120 Automation Electrical	120	6
RA130 AC/DC Motor Controls	120	6
RA205 Program Logic Controllers	120	6
RA210 Robotics Integration	120	6
RA215 Automation Controls & Network Integration	120	6
RA220 The Work Cell	120	6
RA295 Robotics & Automation Capstone	<u>48</u>	<u>5</u>
<b>Total Technical Hours</b>	<b>1008</b>	<b>53</b>

<u>General Education &amp; Related Requirements</u>	<u>Instructional Hours</u>	<u>Credit Hours</u>
DP153 Digital Documents & Spreadsheets	36	3
CO179 Introduction to Human Communication	24	3
MH150 Technical Math	36	4
EN180 Composition I	48	5
PS274 The American Political Scene	24	3
PY177 Psychology	24	3
SC205 Earth Science	24	3
UN220 Introduction to Diversity Issues	24	3
MA234 Customer Relations Automated Management	48	3
EN200 Composition II	48	5
UN110 First-Year Experience	<u>11</u>	<u>2</u>
<b>Total General Hours</b>	<b>347</b>	<b>37</b>
<b>TOTAL HOURS FOR GRADUATION</b>	<b>1355</b>	<b>90</b>

\*EN070 Basic English

48

3

\*MH065 Review Math

48

3

\*If the placement test is passed with a score of 70% or higher, course will not be required to graduate.