

# Mechatronics

## Career Studies Certificate

**Program Coordinator:** Donnie Melvin • ISC 142A • 276-739-2453

**Length:** One semesters

**Purpose:** The Career Studies Certificate in Mechatronics is intended for students with electrical and/or automation background.

**Occupational Objectives:** Mechatronics Entry Level Maintenance Technician, Senior Level Industrial Machine Operator

**Admission Requirements:** A student eligible for admission to the College can normally be considered for admission to the career studies certificate.

**Program Requirements:** All courses in this curriculum will be as required in the Siemens Level One Certification. An entry level examination will be given to determine if the candidate has the prerequisite knowledge to succeed in the program. This examination will be used to advise the student and possibly recommend tutoring.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
<b>MEC 140</b>	Introduction to Mechatronics	2	2	3
<b>MEC 161</b>	Hydraulics & Pneumatics	2	2	3
<b>ELE 175</b>	Ind. Solid State Devices & Circuits	2	3	3
<b>INS 232</b>	Systems Troubleshooting	2	3	3
<b>ELE 233</b>	Programmable Log. Controllers I	2	3	3
<b>IND 243</b>	Prin. and Apps. of Mechatronics	2	2	3
<b>Total</b>		<b>12</b>	<b>15</b>	<b>18</b>