



## 2025-2026 Certificate

**Certificate:** **Mechatronics Certificate (95-620-1)**

**Credits:** 19 credits

**Description:** The emerging field of Mechatronics is covered in this program. Topics covered during classroom lectures and through practical hands-on experience on modern equipment include troubleshooting manufacturing processes with programmable logic controllers (PLC), robotics, industrial electrical and pneumatic systems and mechanical power transfer systems.

**Related Program:** Advanced Manufacturing/Electromechanical Maintenance Technician

The list below indicates the courses being offered within this certificate.  
Courses in this program may be offered in a variety or combination of formats (for example: in-person, video conferencing, online).  
Contact a BWS representative or an advisor for more information.

### **REQUIRED COURSES**

NOTE: Requisites (prereq- before/ coreq-with)

✓	Semester One	Credits	Prerequisite	Corequisite
	664-105 Intro to Industrial Robots	2		
	612-102 Pneumatic/Hydraulics, Intro	3		
	628-109 Mechanical Skills	3		
	664-110 Mechatronics, Intro to	2		
	664-103 Motor Controls for Manufacturing	3		
	664-118 PLC & HMI Programming	3		
	620-108 Fundamentals of Industrial Controls	3		
	<b>Total Credits</b>	<b>19</b>		

NOTE: Students must complete a certificate program with a cumulative GPA of 2.0 or above.