

ROCHESTER COMMUNITY SCHOOLS


Mechatronics Program of Study

Students will learn and apply Safety, Procedures, Programming, Teamwork, Communication, and Collaboration while solving various problems using robots of different shapes and sizes

Robotics 1
One Semester
9th - 10th grade

Robotics 2
One Semester
9th - 12th grade

Completing these two courses will count as 1 V.P.A.A. credit, 1 credit of 4th year math or CTE Flex credit.

Grade	ELA	Math	Science	Social Studies	CTE - Mechatronics
9	ELA 9	Algebra 1	Biology	World History	Robotics 1 Robotics 2
10	ELA 10	Geometry or Honors Geometry	See course booklet for 10th grade science courses	US History	
11	ELA 11	Algebra 2 or Honors Algebra 2	See course booklet for 11th grade science courses	American Government/ Economics	
12	ELA 12	Pre-Calculus or Honors Pre-Calculus or Math Related Course	See course booklet for 12th grade science courses	Economics (if needed)	
Aligned Post Secondary Courses	Oakland Community College: Introduction to CAD (CAD 1101), Integrated Systems (MCT 1000) Washtenaw Community College: Blueprint Reading for Manufacturing (MEC 101), Robotics 1 (ROB 101)				MDE Postsecondary Credit Agreement: 

Careers in Mechatronics

Assembler, Automated Manufacturing, Technician, Calibration Technician, Electrical Installer and Repairer, Electromechanical Equipment Assembler, Extruding and Drawing Machine, Setter/Set-Up Operator, Foundry Worker, Grinding, Lapping, and Buffing Machine Operator, Hand Packer and Packager, Hoist and Winch Operator, Instrument Maker, Large Printing Press Machine Setter and Set-Up Operator, Machine Operator, Medical Appliance Maker, Micro and Nano Fabrication Technicians, Milling Machine Setter and Set-Up Operator, Millwright, Pattern and Model Maker, Precision Layout Worker, Sheet Metal Worker, Solderer and Brazier, Tool and DieMaker, Welder

Complete these courses to be considered a completer of the program.



CIP:
Mechatronics 14.4201