



Mechatronics Pathway with Washtenaw Community College

Associate of Applied Science Mechatronics - Numerical Control Specialty

11 th Grade					
Fall Semester			Winter Semester		
Robotics/Mechatronics	artic. Credit	Pinckney HS	Robotics/Mechatronics	artic. Credit	Pinckney HS

Articulates to: ROB 101 (2CR), ROB 110 (2CR), MEC 101 (2 CR), ROB 212 (4CR)
See your counselor for additional High School graduation requirements

12 th Grade					
Fall Semester			Winter Semester		
Adv. Robotics/Mechatronics	artic. Credit	Pinckney HS	Adv. Robotics/Mechatronics	artic. Credit	Pinckney HS
*NCT 110	2 Credits	WCC	*FLP110	2 Credits	WCC
*NCT 101	2 Credits	WCC	*FLP101	2 Credits	WCC
ENG 111	4 Credits	WCC	COM 101	3 Credits	WCC
ELE 111	4 Credits	WCC	*ROB 222	2 Credits	WCC
			*ROB 223	2 Credits	WCC
			Spring Semester		
			NCT 123	2 Credits	WCC

* Deonotes 7 week course
See your counselor for additional High School graduation requirements



13 th Grade					
Fall Semester			Winter Semester		
MEC 201	2 Credits	WCC	NCT 221	4 Credits	WCC
NCT 121	4 Credits	WCC	MEC 224	4 Credits	WCC
MEC 100	3 Credits	WCC	NCT 123	2 Credits	WCC
NCT 120	4 Credits	WCC	<i>Nat Sci.</i>	3 Credits	WCC
<i>MTH 176</i>	4 Credits	WCC	<i>Soc Sci.</i>	3 Credits	WCC
			Spring Semester		
			Humanities	4 Credits	WCC

MMC grad requirements

VPAA: Robotics/Mechatronics

4th Math Experience, 3rd Science, 2nd Foreign Language: Adv. Robotics/Mechatronics

English: ENG 111

English: COM 101

Math: MTH 125, MTH 160, or MTH 176

ENG 111 4 CR Composition

COM 101 3 CR Fundamentals of Speaking

MTH 160 4 CR Basic Statistics

MTH 125 4 CR Everyday College Math

MTH 176 4 CR College Algebra

Nat Sci, Humanities, Soc. Science - Options available

MEC 100 3 CR Materials and Processes

MEC 101 2 CR 3D modeling and Blueprint Reading

MEC 201 2 CR Mechanisms

MEC 224 4 CR Robotics IV

ELE 111 4 CR Electronic Fundamentals

ELE 211 4 CR Basic Electronics

ELE 224 4 CR Programmable Controllers (PLCs 1)

ELE 254 4 CR Programmable Controllers (PLCs 2)

ROB 101 2 CR Robotics I

ROB 110 2 CR Robotics I-II

ROB 212 4 CR Robotics II

MTT 102 2 CR Machining for the Technologies

ROB 222 2 CR Robotics Simulation

ROB 223 2 CR Robotics III

NCT 101 2 CR Intro to Computerized Machining (CNC-1)

NCT 102 2 CR Intro to Computerized Machining (CNC-2)

NCT 120 4 CR Intro to 2D CAD CAM Programming & Applications

NCT 121 4 CR Manual Programming and NC Tool Operation

NCT 123 4 CR 2D CAD CAM CNC Programming Mills and Lathes

NCT 221 4 CR Advanced Manual Programming and NC Tool Operation

FLP 101 2 CR Fluid Power Fundamentals I

FLP 110 2 CR Fluid Power Fundamentals II

Italicized - May be taken online or hybrid