

Mechatronics AAS (MECA)
Catalog: 2025-2026 Effective Date: 9/1/2025

CR	COURSE	COURSE TITLE	SUNY GEN ED
1-2	HRD 100, HRD 100A or HRD 110	FRESHMAN EXPERIENCE	
3	ENG 101	<i>Introduction to College Writing</i>	GCWO
3	ENG 102, ENG 103, ENG 104, ENG 105, ENG 106, ENG 107, ENG 108, ENG 109 or ENG 110	<i>Writing II</i>	GCWO
3-4	MAT 108, MAT 121, MAT 125 or MAT 131		GMAT
4	SUNY GEN ED Natural Science lab science (and Scientific Reasoning)		GNSL
3	SUNY GEN ED Diversity: Equity, Inclusion and Social Justice		GDVR
3	SUNY GEN ED Humanities, The Arts, US History and Civic Engagement, World History and Global Awareness, Social Sciences or World Languages		GHUM GART GUSC GGLB GSSC
3	CIS 131	<i>Introduction to Networking</i>	
3	TEC 101 (Fall only)	<i>Introduction to Technology</i>	
3	TEC 103 (Fall only)	<i>Electrical Systems and Distribution</i>	
3	EGR 109 (Spring only)	<i>Engineering Graphics and CAD</i>	
4	TEC 119 (Fall only –Pre/Coreq Required)	<i>Electricity I</i>	
4	TEC 120 (Spring only - Prereq Required)	<i>Electricity II</i>	GNSC
3	TEC 223 (Fall only – Prereq Required)	<i>Motors Control Systems</i>	
3	TEC 241 (Spring only –Prereq Required)	<i>Electronics I</i>	
3	TEC 250 (Fall only – Prereq Required)	<i>Introduction to PLC's</i>	
3	TEC 251 (Spring only – Prereq Required)	<i>PLC II and Sensors</i>	
3	TEC 264 (Fall only – Prereq Required)	<i>Robotics I</i>	
3	TEC 265 (Spring only- Prereq Required)	<i>Robotics II</i>	
3	TEC 266 (Spring only – Prereq Required)	<i>Hydraulics and Pneumatics</i>	
3	Any TEC (TEC 178 recommended)	TECHNICAL ELECTIVE	
64	Minimum credits required for graduation		

Note: Please review the back of this form for additional information.

Notes on Mechatronics AAS (MECA)

COURSE	PREREQUISITES	COURSE	PREREQUISITES
PHY 111	MAT 108	TEC 223	TEC 120 and TEC 250 (Co-requisite)
TEC 103	MAT 090	TEC 241	TEC 120 with C or better or EGR222 with C or better
TEC 120	TEC 119 with C or better	TEC 250	TEC 103 with C or better and TEC 119 with C or better and TEC 223 (Pre/Co-requisite)
TEC 178	TEC 120 and TEC 264	TEC 251	TEC 250 with C or better and TEC 241 (Co-requisite)
TEC 205	TEC 120	TEC 264	TEC 119
		TEC 265	TEC 264
		TEC 266	2 nd year preferred
COURSE	CO-REREQUISITES		
TEC 119	MAT 097 and TEC 103 (Both Co-requisite)		

FIRST YEAR SEQUENCE

Credits	First Semester
1-2	HRD 100, HRD 100A or HRD 110
3	ENG 101
3-4	MAT 108, MAT 121, MAT 125 or MAT 131
3	TEC 101
3	TEC 103
4	TEC 119
Credits	Second Semester
3	CIS 131
3	ENG 102-ENG 110
4	TEC 120
3	EGR 109 – See Note 1
4	SUNY GEN ED Natural Science lab science

SECOND YEAR SEQUENCE

Credits	Third Semester
3	SUNY GEN ED Humanities, The Arts, US History and Civic Engagement, World History and Global Awareness, Social Sciences or World Languages
3	TEC Technical Elective
3	TEC 223
3	TEC 250
3	TEC 264
Credits	Fourth Semester
3	SUNY GEN ED Diversity: Equity Inclusion and Social Justice
3	TEC 266
3	TEC 241
3	TEC 251
3	TEC 265

DEGREE NOTES:

1. Students will be eligible to take the Certified SOLIDWORKS Associate in Mechanical Design examination.
2. Technical Electives are any TEC courses; TEC 178 recommended.

GEN ED CODE	SUNY GEN ED CATEGORY	GEN ED CODE	SUNY GEN ED CATEGORY
GMAT	Mathematics (and Quantitative Reasoning)	GDVR	Diversity: Equity, Inclusion and Social Justice
GNSC/L	Natural Sciences (and Scientific Reasoning)	GHUM	Humanities
GSSC	Social Sciences	GART	The Arts
GUUSC	US History and Civic Engagement	GWRL	World Languages
GGLB	World History and Global Awareness	GCWO	Communication – Written and Oral