

Mechatronics AAS (MECA)

Catalog: 2020-2021				Effective Date: 9/01/2020				
CR	COURSE	COURSE TITLE	SUNY GEN ED	TR	SEMESTER			
1-2	HRD 100, HRD 100A or HRD 110	FRESHMAN EXPERIENCE						
3	ENG 101	<i>Introduction to College Writing</i>	GEBC					
3	SUNY GEN ED Basic Communication ENG 102, ENG 103, ENG 104, ENG 105, ENG 106, ENG 107, ENG 108, ENG 109 or ENG 110		GEBC					
3-4	MAT 108, MAT 121, MAT 125 or MAT 131	<i>Mathematical Functions</i>	GEMA					
4	SUNY Gen Ed Natural Science lab science		GENS					
3	SUNY Gen Ed Social Science		GESS					
3	SUNY GETA, GEOC, GEHU or GEFL liberal arts and sciences		GETA, GEOC, GEHU GEFL					
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 Distribution</i>						
3	TEC 107	<i>Mechanical Technology I</i>						
3	TEC 108 (Prereq Required)	<i>Mechanical Technology II</i>						
4	TEC 119 (Fall only – Pre/Coreq Required)	<i>Electricity I</i>						
4	TEC 120 (Spring only - Prereq Required)	<i>Electricity II</i>						
3	TEC 223 (Fall only – Prereq Required)	<i>Motors and Controls</i>						
3	TEC 250 (Fall only – Prereq Required)	<i>Automation and Controls I</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	Liberal Arts and Sciences							
3	Electives	TEC 125, TEC 178, TEC 205 or TEC 251 recommended						
64	Minimum credits required for graduation							

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

Notes on Mechatronics AAS (MECA)

❖ COURSE PREREQUISITES:			
TEC 103	MAT 090	TEC 250	TEC 120 and TEC 223 (Co-requisite)
TEC 108	TEC 107	TEC 251	TEC 250
TEC 120	TEC 119 with C or better	TEC 264	TEC 119
TEC 178	All required 1 st semester work	TEC 265	TEC 264
TEC 205	TEC 120	TEC 266	2 nd year preferred
TEC 223	TEC 120		
❖ COURSE COREQUISITES:			
TEC 119	MAT 097 (or higher) and TEC 103		

❖ RECOMMENDED SEQUENCE:			
FIRST YEAR			
First Semester		Second Semester	
1-2	HRD 100, HRD 100A or HRD 110	3	ENG 102-ENG 110
3	ENG 101	4	SUNY GEN ED Natural Science lab science
3	MAT 108, MAT 121, MAT 125 or MAT 131	3	CIS 131
3	TEC 101	4	TEC 120
3	TEC 103	3	TEC 107
4	TEC 119		
SECOND YEAR			
Third Semester		Fourth Semester	
3	SUNY GEN ED Social Science	3	TEC 265
3	TEC 108	3	TEC 266
3	TEC 223	3	SUNY GEN ED GETA, GEOC, GEHU or GEFL liberal arts and sciences
3	TEC 250	3	Liberal Arts and Sciences
3	TEC 264	3	Electives – See Note 1
NOTES:			
1. Recommended electives are TEC 125, TEC 178, TEC 205 or TEC 251			

❖ **DEFINITION OF COURSE REQUIREMENTS:** See <http://catalog.sunyacc.edu/academics/degree requirements>

❖ **FINANCIAL AID RECIPIENTS:** A student **must** choose courses that are within their degree program. Students are encouraged to meet with their assigned academic advisor for any questions about course selection and degree program requirements. Please visit the Office of Financial Aid for any aid-related questions.

❖ **SUNY GEN ED KNOWLEDGE AREAS:** See <http://catalog.sunyacc.edu/academics/generaleducation>

- | | |
|-------------------------------|-----------------------------------|
| ❖ Mathematics (GEMA) | ❖ Other World Civilization (GEOC) |
| ❖ Natural Sciences (GENS) | ❖ Humanities (GEHU) |
| ❖ Social Sciences (GESS) | ❖ The Arts (GETA) |
| ❖ American History (GEAH) | ❖ Foreign Languages (GEFL) |
| ❖ Western Civilization (GEWC) | ❖ Basic Communication (GEBC) |