

## Mechatronics AAS (MECA)

Catalog: 2022-2023			Effective Date: 9/01/2021				
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		GEMA				
4	SUNY GEN ED Natural Science lab science		GENS				
3	SUNY GEN ED Social Science		GESS				
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>					
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	CIS, EGR or TEC Elective	TECHNICAL ELECTIVE					
3	Liberal Arts and Sciences						
<b>64</b>	<b>Minimum credits required for graduation</b>						

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

Notes on Mechatronics AAS (MECA)

❖ <b>COURSE PREREQUISITES:</b>			
PHY 111	MAT 108	TEC 223	TEC 120 and TEC 250 (Co-requisite)
TEC 103	MAT 090	TEC 241	TEC 120 or EGR222
TEC 120	TEC 119 with C or better	TEC 250	TEC 120 and TEC 223 (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 <sup>nd</sup> year preferred
❖ <b>COURSE CO-REREQUISITES:</b>			
TEC 119	MAT 097 and TEC 103 (Both Co-requisite)		

❖ <b>RECOMMENDED SEQUENCE:</b>			
<b>FIRST YEAR</b>			
<b>First Semester</b>		<b>Second Semester</b>	
1-2	HRD 100, HRD 100A or HRD 110		
3	ENG 101	3	CIS 131
3-4	MAT 108, MAT 121, MAT 125 or MAT 131	3	ENG 102-ENG 110
3	TEC 101	4	TEC 120
3	TEC 103	3	EGR 109 – See Note 1
4	TEC 119	4	SUNY GEN ED Natural Science lab science
<b>SECOND YEAR</b>			
<b>Third Semester</b>		<b>Fourth Semester</b>	
3	SUNY GEN ED Social Science	3	Liberal Arts and Sciences
3	CIS, EGR or TEC Technical Elective	3	TEC 266
3	TEC 223	3	TEC 241
3	TEC 250	3	TEC 251
3	TEC 264	3	TEC 265
<b>NOTES:</b>			
1. Students will be eligible to take the Certified SOLIDWORKS Associate in Mechanical Design examination.			
2. Technical Electives are CIS, EGR or TEC courses.			

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

❖ **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>

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|-------------------------------|-----------------------------------|
| ❖ 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)      |