



Mechatronics

Program Information

Degree Type: AAS

Program Code: MECA

Degree Worksheet PDF:  [2018-meca.pdf \[1\]](#)

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MECA

 [2018-meca.pdf \[2\]](#)

This curriculum provides both theoretical and hands-on knowledge of robotics, mechanical technology, hydraulics, pneumatics, and electrical systems. The degree will create a well-rounded technology oriented person who is trainable for the specific needs of many different organizations today and in the future. As an applied associates of science degree, a key objective of this program is to prepare students to be responsible professional employees in local industries.

| Cr. | Course Title | Course Code |
|------------|---|---|
| 1-2 | Freshman Experience | HRD100 HRD100A or HRD110 |
| 3 | Writing I | ENG101 or ENG100A & ENG100B |
| 3 | SUNY GEN ED Basic Communication | ENG102 , ENG103 , ENG104 , ENG105 , ENG106 , ENG107 , ENG108 , ENG109 or ENG110 |
| 3 | Mathematical Functions | MAT108 |
| 4 | SUNY Gen Ed Natural Science lab science | |
| 3 | SUNY Gen Ed Social Science | |
| 3 | SUNY Gen Ed The Arts, SUNY Gen Ed Other World Civ, SUNY Gen Ed Humanities or SUNY Gen Ed Foreign Language liberal arts and sciences | |



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| 3 | Introduction to Networking | CIS131 |
| 3 | Introduction to Engineering and Technology | TEC101 (Fall only) |
| 3 | Electrical Technology Fundamentals | TEC103 (Fall only) |
| 3 | Mechanical Technology I | TEC107 |
| 3 | Mechanical Technology II | TEC108 (Prereq Required) |
| 4 | Electricity I | TEC119 (Fall only - Pre/Coreq Required) |
| 4 | Electricity II | TEC120 (Prereq Required) |
| 3 | Motors and Controls | TEC223 (Fall only - Prereq Required) |
| 3 | Automation and Controls I | TEC250 (Fall only - Prereq Required) |
| 3 | Robotics I | TEC264 (Fall only - Prereq Required) |
| 3 | Robotics II | TEC265 (Spring only - Prereq Required) |
| 3 | Hydraulics and Pneumatics | TEC266 (Spring only - Prereq Required) |
| 3 | Liberal Arts and Sciences [3] | |
| 3 | Electives | EGR109, TEC251, TEC178 recommended for transfer |
| 64 | Minimum credits required for graduation | |

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|--------------------------------|--|
| Recommended First Year | |
| First Semester | |
| 1-2 | HRD100, HRD100A or HRD110 |
| 3 | ENG101 or ENG100A & ENG100B |
| 3 | MAT108 - See Note 2 |
| 3 | TEC101 |
| 3 | TEC103 |
| 4 | TEC119 |
| Second Semester | |
| 3 | ENG102 - ENG110 |
| 4 | SUNY Gen Ed Natural Science lab science |
| 3 | CIS131 |
| 4 | TEC120 |
| 3 | TEC107 |
| Recommended Second Year | |
| Third Semester | |
| 3 | SUNY Gen Ed Social Science |
| 3 | TEC108 |
| 3 | TEC223 |
| 3 | TEC250 |
| 3 | TEC264 |
| Fourth Semester | |
| 3 | TEC265 |
| 3 | TEC266 |
| 3 | SUNY Gen Ed GETA, TEOC, GEHU or GEFL liberal arts and sciences |
| 3 | Liberal Arts and Sciences |
| 3 | Electives - See Note 1 |



1. Recommended electives are EGR109, TEC251 or TEC178.
2. MAT121, MAT125, or MAT131 may also be taken.

Source URL: <http://catalog.sunyacc.edu/programs/mechatronics>

Links:

[1] <http://catalog.sunyacc.edu/>

[2]

<http://catalog.sunyacc.edu/sites/catalog.sunyacc.edu/files/degreeworksheets/2018/2018-meca.pdf>

[3] <http://catalog.sunyacc.edu/academics/degreerequirements>