**Mechatronics AAS (MECA)**

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| **Catalog: 2018-2019 Effective Date: 9/01/2018**  |
| **CR** | **COURSE** | **COURSE TITLE** | **SUNY****GEN ED** | **TR** | **SEMESTER** |
| 1-2 | HRD 100, HRD 100A or HRD 110 | FRESHMAN EXPERIENCE |  |  |  |  |  |  |
| 3 | ENG 101 or ENG 100A & B | *Introduction to College Writing* or *Writing Reading Workshop A/B* | 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 | MAT 108 | *Mathematical Functions* | 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, GEHUGEFL  |  |  |  |  |  |
| 3 | CIS 131  | *Introduction to Networking* |  |  |  |  |  |  |
| 3 | TEC 101 (Fall only) | *Introduction to Engineering and Technology* |  |  |  |  |  |  |
| 3 | TEC 103 (Fall only) | *Electrical Technology Fundamentals* |  |  |  |  |  |  |
| 3 | TEC 107 | *Mechanical Technology I* |  |  |  |  |  |  |
| 3 | TEC 108 (Prereq Required) | *Mechanical Technology II* |  |  |  |  |  |  |
| 4 | TEC 119 (Fall only –Pre/Coreq Required) | *Electricity I* |   |  |  |  |  |  |
| 4 | TEC 120 (Prereq Required) | *Electricity II* |  |  |  |  |  |  |
| 3 | TEC 223 (Fall only – Prereq Required) | *Motors and Controls* |  |  |  |  |  |  |
| 3 | TEC 250 (Fall only – Prereq Required)  | *Automation and Controls I* |  |  |  |  |  |  |
| 3 | TEC 264 (Fall only – Prereq Required) | *Robotics I* |  |  |  |  |  |  |
| 3 | TEC 265 (Spring only – Prereq Required) | *Robotics II* |  |  |  |  |  |  |
| 3 | TEC 266 (Spring only – Prereq Required) | *Hydraulics and Pneumatics* |  |  |  |  |  |  |
| 3 | Liberal Arts and Sciences |  |  |  |  |  |  |  |
| 3 | Electives | EGR 109, TEC 251 or TEC 178 recommended  |  |  |  |  |  |  |
| **64** |  **Minimum credits required for graduation** |  |  |  |  |  |  |

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

Notes on Mechatronics AAS (MECA)

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| * **COURSE PREREQUISITES:**
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| **TEC 108** | Mechanical Technology I | **TEC 264** | TEC 119 |
| **TEC 120** | TEC 119 with C or better | **TEC 265** | TEC 264 |
| **TEC 178** | All required 1st semester work | **TEC 266** | 2nd year preferred |
| **TEC 223** | TEC 120  |  |  |
| **TEC 250** | TEC 120 and TEC 223 (Co-requisite) |  |  |
| **TEC 251** | TEC 250 |  |  |
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| * **COURSE PREREQUISITES:**
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| **TEC 101** | MAT 090 | **TEC 119** | MAT 097 and TEC 103 |

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| * **RECOMMENDED SEQUENCE:**
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| **FIRST YEAR** |
| **First Semester** | **Second Semester** |
| 1-2 | HRD 100, HRD 100A or HRD 110 | 3 | ENG 102-ENG 110 |
| 3 | ENG 101 or ENG 100 A & B | 4 | SUNY GEN ED Natural Science lab science |
| 3 | MAT 108 – See Note 2 | 3 | CIS 131 |
| 3 | TEC 101 | 4 | TEC 120 |
| 3 | TEC 103 | 3 | TEC 107 |
| 4 | TEC 119 |  |  |
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| **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 | Elective – See Note 1 |
| **NOTES:** |
| 1. Recommended electives are EGR 109, TEC 251 or TEC 178.
2. MAT 121, MAT 125, or MAT 131 may also be taken.
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| * **DEFINITION OF COURSE REQUIREMENTS:** See <http://catalog.sunyacc.edu/academics/degreerequirements>
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| * **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.
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| * **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) |