## Mechatronics AAT/AAS-T Degree

Program Start: Fall, Winter, Spring Program Length: 6-7 Quarters Prerequisites: Yes Total College Credits: 93-123

To enter the program, a student must be eligible to take college-level English, Psychology, or another social science/ humanities course.

This program assumes that students will be able to enroll in, or will have passed, MATH& 141 by the start of the third quarter of the program. Any developmental coursework that a student may be required to take to achieve this may increase the program length and is not reflected in credit counts as shown below. Math sequences to meet this requirement must be planned with your advisor prior to program enrollment.

AAS-T Degree has additional General Education Requirements. Students are encouraged to check with the RS counselor for more information about program requirements.

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| High School | College |
| Core Science Credit | Systems Approach – MEC 201/MET 111 (5 Credits) Total Mechatronics – MEC 202/MET113 (5 Credits) DC Circuits – MEC 115 (5 credits)  AC Circuits – MEC 116 (5 credits)  Applied Statics & Strength Materials – MEC 128/MET 122 (5 Credits) CAD/CAM/CNC Mills – MET 131 (5 Credits)  Fixturing & Workflows – MET 133 (3 Credits) CAN/CAM/CNC Lathes – MET 141 (5 Credits) Robotics – MEC 165/MET 142 (5 Credits) Applied Mechatronics – MEC 173 (5 Credits)  Programmable Control of Fluid Power – MEC 230 (5 Credits) Programmable Controls in Industrial Networks – MEC 235 (5 Credits)  Motors, Drives & Mechanical Transfer Systems – MEC 240 (5 Credits) |
| Core Math Credit | Precalculus I – MATH& 141 (5 credits)  Manual Machining – MET 121 (5 Credits) |
| Core English Credit | English Composition I – ENGL& 101 (5 credits) |
| Core Social Studies | General Psychology – PSYC& 100DIV (5 credits) Introduction to Sociology – SOC& 101DIV (5 credits) Psychology of the Workplace – PSY 112DIV (5 credits)  Lean Manufacturing – MEC 132/MET 132 (5 Credits) |
| Core Art Credit | Computer Aided Design I/Computer-Aided Design for Manufacturing – MEC 120/Met 112 (5 credits) 2D Cutting CAD/CAM/CNC – MET 123 (3 Credits)  Creative Engineering Lab – MET 298 (5 Credits) |
| CTE Credits/Optional Elective | College Success for All – COLL 102 (3 credits)  Computer Programming and Logic – MEC 140CL (5 Credits) Programming & Macros – MET 143 (3 Credits)  Industrial Survey – MEC 163 (5 Credits) Internship/Work Experience – MEC 289 (5 Credits) Training & Practice – MET 299 (1 -5 Credits) |