Mitchell Technical Institute Articulation

Articulation is a cooperative effort between South Dakota's high schools, the Department of Education's Office of Career and Technical Education (OCTE), and technical institutes. It links high schools with certificate, diploma, and associate degree programs and provides students with an opportunity to receive credit for skills previously learned. The courses listed below in the Manufacturing career cluster are currently articulated from OCTE approved programs to the Agricultural Technology, Electrical Construction and Maintenance, Heating and Cooling Technology, Power Line Construction and Maintenance, Propane and Natural Gas Technologies, Satellite Communications, SCADA Engineering Technology, and Telecommunications programs at Mitchell Technical Institute.

Articulation Guidelines

1. To receive articulated credit, the student must have completed the high school course within the last three years.
2. A minimum of a "B" in the course(s) to be articulated is required.
3. Tuition is not charged for the articulated credit(s).
4. Articulated courses will be honored by all post-secondary institutes for those course(s) that have common course names and numbers.
5. If the curriculum of the technical institute course changes, the terms of the agreement may also change.
6. All articulation agreements between secondary schools and the technical institutes reflect only the transfer ability of credit between these agencies and not with state universities.

Manufacturing

High School Manufacturing Cluster Courses	MTI Agricultural Technology Courses
Electronics	AG 157 – Farm Power/Electrical Wiring (0.5 of 1 credit)
Welding	AG 159 – Welding & Metal Fabrication (2 of 2 credits)

High School Manufacturing Cluster Courses	MTI Electrical Construction and Maintenance Courses
Electronics	ECM 101 – Electrical Fundamentals (1 of 4 credits)
Electronics	ECM 231 – Electrical Circuits (1 of 3 credits)
Mechatronics	ECM 101 – Electrical Fundamentals (1 of 4 credits)
Mechatronics	ECM 252 – Industrial Controls (1 of 3 credits)

High School Manufacturing Cluster Courses	MTI Heating and Cooling Technology Courses
Electronics	HV 101 – AC and Refrigeration Fundamentals (1 of 3 credits)
Mechatronics	HV 142 – HV Controls and Heat Pumps (1 of 3 credits)

High School Manufacturing Cluster Courses	MTI Power Line Construction and Maintenance Courses
Electronics	PL 111 – Fundamentals of DC/AC (1 of 4 credits)

High School Manufacturing Cluster Courses	MTI Propane and Natural Gas Technologies Courses
Electronics	NG 100 – Gas Operations & Maintenance Lab (1 of 4 credits)
Mechatronics	NG 100 – Gas Operations & Maintenance Lab (1 of 4 credits)

High School Manufacturing Cluster Courses	MTI Satellite Communications Courses
Electronics	EC 121 – DC/AC Circuit (1 of 4 credits)

High School Manufacturing Cluster Courses	MTI SCADA Engineering Technology Courses
Electronics	EC 121 – DC/AC Circuit (1 of 4 credits)
Mechatronics	SD 270 – SCADA Testing & Control Lab (1 of 6 credits)

High School Manufacturing Cluster Courses	MTI Telecommunications Courses
Electronics	EC 121 – DC/AC Circuit (1 of 4 credits)

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Questions or clarifications? Please contact Scott Fossum, Central Area Tech Prep Coordinator. 605-995-3072; scott.fossum@mitchelltech.edu; MTI, 821 N. Capital St., Mitchell, SD 57301