

Mitchell Technical Institute Articulation

Articulation is a cooperative effort between South Dakota's high schools, the Department of Education's Office of Curriculum, Career and Technical Education (COCTE), 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 in the Manufacturing career cluster are currently articulated from OCCTE approved programs to the Agricultural Technology, Architectural Design & Building Construction, Electrical Construction & Maintenance, Heating & Cooling Technology, Power Line Construction & Maintenance, Propane & Natural Gas Technologies, Satellite Communications, and Automation Controls/SCADA, Telecommunications, Utilities Technology, Utilities Heating & Cooling Technology, and Wind Turbine Technology 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 Cluster

High School Manufacturing Cluster Courses

17106 Electronics

13297 Welding Technology

13208 Advanced Welding Technology

High School Manufacturing Cluster Courses

13297 Welding Technology

13208 Advanced Welding Technology

High School Manufacturing Cluster Courses

17106 Electronics

21009 Mechatronics/Robotics

High School Manufacturing Cluster Courses

17106 Electronics

17106 Electronics

21009 Mechatronics/Robotics

21009 Mechatronics/Robotics

High School Manufacturing Cluster Courses

17106 Electronics

21009 Mechatronics/Robotics

High School Manufacturing Cluster Courses

17106 Electronics

High School Manufacturing Cluster Courses

17106 Electronics

21009 Mechatronics/Robotics

High School Manufacturing Cluster Courses

17106 Electronics

High School Manufacturing Cluster Courses

17106 Electronics

High School Manufacturing Cluster Courses

17106 Electronics

21009 Mechatronics/Robotics

17106 Electronics

21009 Mechatronics/Robotics

High School Manufacturing Cluster Courses

17106 Electronics

17106 Electronics

21009 Mechatronics/Robotics

High School Manufacturing Cluster Courses

17106 Electronics

21009 Mechatronics/Robotics

MTI Agricultural Technology Courses

AG 157 – Farm Power/Electrical Wiring (0.5 of 1 credit)

AG 159 – Welding & Metal Fabrication (1 of 2 credits)

AG 159 – Welding & Metal Fabrication (2 of 2 credits)

MTI Architectural Design & Building Construction Courses

BC 282 – Welding (1 of 2 credits)

BC 282 – Welding (2 of 2 credits)

MTI Automation Controls/SCADA Courses

EC 121 – DC/AC Circuit (1 of 3 credits)

SD 270 – SCADA Testing & Control Lab (1 of 7 credits)

MTI Electrical Construction & Maintenance Courses

ECM 101 – Electrical Fundamentals (1 of 4 credits)

ECM 231 – Electronic Circuits (1 of 3 credits)

ECM 101 – Electrical Fundamentals (1 of 4 credits)

ECM 252 – Industrial Controls (1 of 3 credits)

MTI Heating and Cooling Technology Courses

HV 101 – Electrical Fundamentals (1 of 3 credits)

HV 142 – HV Controls and Heat Pumps (1 of 3 credits)

MTI Power Line Construction & Maintenance Courses

PL 111 – Fundamentals of DC/AC (1 of 4 credits)

MTI Propane & Natural Gas Technologies Courses

NG 110 – Gas Operations & Maintenance Lab (1 of 4 credits)

NG 110 – Gas Operations & Maintenance Lab (1 of 4 credits)

MTI Satellite Communications Courses

EC 121 – DC/AC Circuit (1 of 3 credits)

MTI Telecommunications Courses

EC 121 – DC/AC Circuit (1 of 2 credits)

MTI Utilities Heating & Cooling Technology Courses

HV 101 – Electrical Fundamentals (1 of 3 credits)

HV 142 – HV Controls and Heat Pumps (1 of 3 credits)

NG 110 – Gas Operations & Maintenance Lab (1 of 4 credits)

NG 110 – Gas Operations & Maintenance Lab (1 of 4 credits)

MTI Utilities Technology Courses

PL 111 – Characteristics of DC/AC (1 of 4 credits)

NG 110 – Gas Operations & Maintenance Lab (1 of 4 credits)

NG 110 – Gas Operations & Maintenance Lab (1 of 4 credits)

MTI Wind Turbine Technology Courses

WTT 105 – DC/AC Circuits (1 of 4 credits)

WTT 120 – Industrial Motor Controls (1 of 4 credits)

Updated January 9, 2011

Questions or clarifications? Please contact Scott Fossum, Central Area Tech Prep Coordinator. 605-995-3072; scott.fossum@mitchelltech.edu; MTI, 1800 E. Spruce St., Mitchell, SD 57301