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**Student Name**

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**High School**

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**Student Signature**

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**Mitchell Tech ID#**

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**Student Services Representative**

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**Registrar Signature**

## **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 (OCCTE), 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 Arts, Audio/Visual Technology & Communications, Science, Technology, Engineering & Mathematics; Information Technology and Manufacturing career clusters are currently articulated from OCCTE approved programs to the Automation Controls/SCADA program 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.

## ***Automation Controls/SCADA***

### **High School Information Technology Cluster Courses**

10109 Essentials of Operating Systems  
10153 Visual Basic Programming  
10257 Introduction to Network Cabling

### **High School Manufacturing Cluster Courses**

17106 Electronics  
21009 Mechatronics/Robotics

### **High School Arts, A/V Technology & Communications Courses**

17106 Electronics

### **High School Science, Technology, Engineering and Mathematics Courses**

17106 Electronics  
21009 Mechatronics/Robotics

### **Additional High School Courses**

Algebra II/Advanced Algebra  
plus 20+ on ACT Math or  
45+ on COMPASS Algebra or  
25+ on TABE Algebra

### **MTI Automation Controls/SCADA Courses**

EC 167 – IT Essentials (1 of 3 credits)  
SD 230 – Intro to Visual Basic (1 of 3 credits)  
SD 280 – Data Cabling Lab (1 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)

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EC 121 – DC/AC Circuit (1 of 3 credits)  
SD 270 – SCADA Testing & Control Lab (1 of 7 credits)

### **MTI General Education Courses**

MATH 101 – Intermediate Algebra (3 of 3 credits)  
MATH 104 – Technical Mathematics (3 of 3 credits)

Updated January 9, 2011

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