

# PROGRAM TO PROGRAM ARTICULATION AGREEMENT

Between  
MITCHELL TECHNICAL INSTITUTE  
and  
SOUTH DAKOTA STATE UNIVERSITY

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Agreement with Respect to Applying the  
**Welding and Manufacturing Technology**  
Associate of Applied Sciences Degree Program at MTI  
Toward the  
**Operations Management**  
Bachelor of Science Degree Program at SDSU

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## I. Parties

The parties to this agreement are South Dakota State University (SDSU), Brookings SD and Mitchell Technical Institute (MTI), Mitchell SD.

## II. Purpose

The purpose of this agreement is to:

- A. have a signed articulation agreement that addresses the varying needs of students and complimentary nature of the institutions' programs;
- B. provide increased educational opportunities for students from South Dakota and the region;
- C. extend and clarify educational opportunities for students; and
- D. provide MTI students who have completed the A.A.S. degree in Welding and Manufacturing Technology an opportunity to earn a Bachelor of Science degree with a major in Operations Management.

## III. Academic Program

### Graduation Requirements for the BS in Operations Management at SDSU

Operations Management Major requirements:	68
General Education (SGR & IGR) credits:	37
<u>Block Transfer credits from MTI Welding &amp; Manufacturing Technology:</u>	<u>15</u>
<b>Total Credits Required:</b>	<b>120</b>

- A. Upon successful completion of the major requirements specified in III.B. below, SDSU will accept 15 technical course credits from the A.A.S. degree in Welding and Manufacturing Technology for students majoring in Operations Management. Students must successfully complete the A.A.S. degree in Welding and Manufacturing Technology from MTI prior to transferring to SDSU for the block transfer course credits to be accepted. *General Education coursework is in addition to the 13 technical course credits.* Students must meet all Board of Regents policies and university graduation requirements in order to receive a degree.

- B. Requirements to be completed at SDSU to earn a Bachelor of Science degree with a major in Operations Management are outlined below.

Major requirements : 32 credits

1. ET 210/L, Introduction to Electronic Systems & Lab (4 credits)
2. ET 451/L, Industrial Controls & PLCs & Lab (3 credits)
3. MNET 367/L, Production Strategy & Lab (3 credits)
4. MNET 460, Manufacturing Cost Analysis (3 credits)
5. OM 425, Production & Operations Management (3 credits)
6. OM 462, Quality Management (3 credits)
7. OM 463, Supply Chain Management (3 credits)
8. OM 465, Quality Control Applications (3 credits)
9. OM 469, Project Management (2 credits)
10. OM 471/L\*, Capstone Experience & Lab (2 credits) \*meets Advanced Writing (AW) requirement
9. OM 494, Internship (3 credits)

Required Support Courses: 36 credits

1. ACCT 210, Principles of Accounting I (3 credits)
2. ACCT 211, Principles of Accounting II (3 credits)
3. GE 123, Computer Aided Design (1 credit)
4. GE 241, Applied Mechanics (3 credits)
5. GE 425, Occupational Safety & Health (3 credits)
6. MATH 121/L, Survey of Calculus & Lab (5 credits)
7. MGMT 310, Business Finance (3 credits)
8. MGMT 325, Management Information Systems (3 credits)
9. MGMT 360, Organization & Management (3 credits)
10. MGMT 460, Human Resource Management (3 credits)
11. STAT 281, Introduction to Statistics (3 credits)
12. STAT 441, Statistical Methods II (3 credits)

The general education coursework to meet South Dakota Regental Systems General Education Requirements (SGR) and SDSU Institutional Graduation Requirements (IGR) must also be completed as outlined below. ***This coursework may be taken at MTI if equivalent courses are available.*** Please note that BOR Policy 2.5.12 states: "Total transfer credit for work at a junior, community college (2 year), and/or two-year technical college may not exceed one-half of the hours required for completion of the baccalaureate degree at the accepting institution." *For the BSOM program, that number is 60 credits.*

General Education (SGR & IGR) Courses: 37 credits

1. Must include ENGL 101, Composition I, (SGR 1) (3 credits)
2. Must include ENGL 277, Technical Writing in Engineering (SGR 1) (3 credits)
3. Must include SPCM 101, Fundamentals of Speech, (SGR 2) (3 credits)
4. Must include ECON 202, Principles of Macroeconomics (SGR 3) (3 credits) – meets globalization (G) requirement
5. Must include MATH 102, College Algebra (SGR 5) (3 credits)
6. Must include CHEM 106/L, Survey of Chemistry & Lab (SGR 6) (4 credits)
7. Must include PHYS 101/101L, Survey of Physics & Lab (SGR 6) (4 credits) [2 credits count toward OM major]
8. Must include GE 109/109L, First Year Seminar & Lab, (IGR 1) (2 credits)
9. Must include GE 231, Technology, Society & Ethics, (IGR 2) (3 credits)

10. 9 remaining credits must meet System General Education requirements, Institutional Graduation requirements and be selected from the approved list of courses specified in BOR policy 2:7.

**Total number of credits at SDSU: 105**

**Transfer credits from MTI: 15\***

**Total credits required: 120**

\*Transferable general education courses can be completed at MTI to a maximum of 60 transferrable credits.

Additional requirements:

1. Students transferring from Mitchell Technical Institute must have a cumulative GPA of "C" (2.0 on a 4.0 scale) and no course grade below a "C" (2.0 on a 4.0 scale).
2. In accordance with BOR policy 2:28, students must demonstrate satisfactory performance in writing, mathematics, reading and science reasoning as evidenced by receiving a passing score on all sections of the Collegiate Assessment of Academic Proficiency (CAAP) exam. The exam must be taken during the first semester of enrollment at SDSU.

#### **IV. Obligations**

Both parties agree to confer with each other on a regular basis regarding changes in curricula involved in this articulation agreement.

#### **V. Modifications**

This agreement may be modified from time to time by the South Dakota Board of Regents and Mitchell Technical Institute with approval by the South Dakota Board of Education. Modifications may not diminish the entitlements enjoyed by students who have already attended classes delivered under the terms of earlier versions of the agreement, except in rare instances in which retroactive implementation of modifications may be required to comply with accreditation standards or to conform to professional licensure requirements.

#### **VI. Incorporation of terms in master agreement**

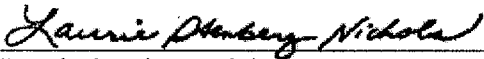
The parties have entered into the present agreement pursuant to an agreement in December 2005 between the Mitchell Board of Education on behalf of Mitchell Technical Institute and the South Dakota Board of Regents on behalf of Black Hills State University, Dakota State University, Northern State University, the South Dakota School of Mines and Technology, South Dakota State University, and the University of South Dakota. This agreement shall be subject to all terms and conditions stated in the December 2005 agreement.

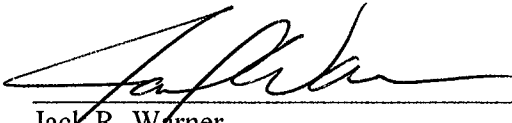
#### **VII. Effective Date of Agreement**

This agreement will go into effect at the start of the Fall 2013 semester term at MTI and SDSU. The agreement applies to students who graduated from MTI in 2005 and subsequent years.


**Acceptance of Agreement:**

For South Dakota State University:

  
Date: 2-19-13  
Laurie Stenberg Nichols  
Provost and Vice President for Academic Affairs

  
Date: 5/21/13  
Jack R. Warner  
Executive Director, South Dakota Board of Regents

For Mitchell Technical Institute:

  
Date: 3-18-13  
Greg Von Wald  
President, Mitchell Technical Institute