

PROGRAM TO PROGRAM ARTICULATION AGREEMENT

Between
NORTHWEST IOWA COMMUNITY COLLEGE
and
SOUTH DAKOTA STATE UNIVERSITY

Agreement with Respect to Applying the
Industrial Instrumentation
Associate of Applied Sciences Degree Program at NWICC
Toward the
Operations Management (Electronics Emphasis)
Bachelor of Science Degree Program at SDSU

I. Parties

The parties to this agreement are South Dakota State University (SDSU), Brookings SD and Northwest Iowa Community College (NWICC), Sheldon, IA.

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 the region;
- C. extend and clarify educational opportunities for students; and
- D. provide NWICC students who have completed the A.A.S. degree in Industrial Instrumentation 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:	64
General Education (SGR & IGR) credits:	35
<u>Block Transfer credits from NWICC Industrial Instrumentation:</u>	<u>21</u>
Total Credits Required:	120

- A. Upon successful completion of the major requirements specified in III.B. below, SDSU will accept **21** course credits from the A.A.S. degree in Industrial Instrumentation for students majoring in Operations Management. Students must successfully complete the A.A.S. degree in Industrial Instrumentation from NWICC before transferring to SDSU for the block transfer course credits to be accepted. *General Education coursework is in addition to the 21 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 (Electronics Emphasis) are outlined below.

Major requirements: 33 credits

1. ET 380/L, Circuit Boards & Design & Lab (3 credits)
2. ET 426/L, Communication Systems & Lab (3 credits)
3. MNET 367/L, Production Strategy & Lab (3 credits)
4. MNET 460 Manufacturing Cost Analysis (3 credits)
5. OM 462, Quality Management (3 credits)
6. OM 465 Quality Control Applications OR
OM425 Production/Operations Management (3 credits)
7. OM 469, Project Management (2 credits)
8. OM 471/L*, Capstone Experience & Lab (2 credits) *meets Advanced Writing (AW) requirement
9. OM 494, Internship (2 credits)
10. Electronics Emphasis Technical Electives (9 credits)

Required Support Courses: 31 credits

1. ACCT 210, Principles of Accounting I (3 credits)
2. ACCT 211, Principles of Accounting II (3 credits)
3. GE 425, Occupational Safety & Health (3 credits)
4. MATH 121/L, Survey of Calculus & Lab (5 credits)
5. MGMT 310, Business Finance (3 credits)
6. MGMT 325, Management Information Systems (3 credits)
7. MGMT 360, Organization & Management (3 credits)
8. MGMT 460, Human Resource Management (3 credits)
9. STAT 281, Introduction to Statistics (3 credits)
10. 2 credits from SGR 6 (see below)

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 NWICC 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: 35 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 & Globalization) (3 credits)
5. Must include MATH 102, College Algebra (SGR 5) (3 credits)
6. Must include PHYS 111/111L, Introduction to Physics I & Lab (SGR 6) (4 credits)
7. Must include PHYS 113/113L, Introduction to Physics II & Lab (SGR 6) (4 credits) [2 credits count toward ET major]
8. Must include GE 231, Technology, Society & Ethics, (IGR 2 & Globalization) (3 credits)
9. 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. *See most recent transfer equivalency documents for more information.*

Total number of credits at SDSU: 99

Transfer credits from NWICC: 21* (additional SGR credits can be earned at NWICC)

Total credits required: 120

Additional requirements:

1. Students transferring from NWICC 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 or meet established waiver requirements. 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 Northwest Iowa Community College. 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. Effective Date of Agreement

This agreement will go into effect at the start of the Fall 2015 semester term at NWICC and SDSU.

VII. Acceptance of Agreement:

For South Dakota State University:



Date: 3-11-2015

Lewis Brown
Dean, College of Engineering



Date: 3-19-2015

Laurie Stenberg Nichols
Provost and Vice President for Academic Affairs

For Northwest Iowa Community College



Date: 3-24-15