

**SOUTH DAKOTA BOARD OF REGENTS**

**Committee on Academic and Student Affairs**

**AGENDA ITEM: II – E**

**DATE: April 1-2, 2015**

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**SUBJECT: Articulation Agreements – SDSU**

Board of Regents [Policy 2:27 Program to Program Articulation Agreements](#) establishes requirements for institutions seeking to develop program level agreements for interested transfer students. The policy further establishes the distinction between AA, AS, and AAS degrees which are classified as transferable, terminal, or non-transferable degrees (respectively). However, the AS is “transferable when a specific degree articulation agreement exists between a given A.S. degree and a specific Baccalaureate degree.” Agreements established with regionally accredited institutions must be developed in conjunction with the faculty, following all institutional guidelines and are monitored as a function of the institutional program review process. Once approved, the agreements apply only at Regental institutions with equivalent programs. To comply with BOR Policy 2:27, South Dakota State University requests approval for the following set of articulation agreements:

- Students completing the AAS in Construction Technology at Laramie County Community College can apply credit toward the BS in Construction Management at SDSU (Attachment I).
- Students completing the AAS in Electrical Technology at Northwest Iowa Community College can apply credit toward the BS in Electronics Engineering Technology at SDSU (Attachment II).
- Students completing the AAS in Industrial Instrumentation at Northwest Iowa Community College can apply credit toward the BS in Operations Management (Electronics Emphasis) at SDSU (Attachment III).
- Students completing the AAS in Carpentry at Ridgewater College can apply credit toward the BS in Construction Management at SDSU (Attachment VI).

(Continued)

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**RECOMMENDED ACTION OF THE EXECUTIVE DIRECTOR**

Approve the articulation agreements between South Dakota State University and Laramie County Community College; Northwest Iowa Community College; Ridgewater College; and South Central College.

- Students completing the AAS in Electronics Technician at Ridgewater College can apply credit toward the BS in Electronics Engineering Technology at SDSU (Attachment V).
- Students completing the AAS in Mechatronics Engineering Technology at South Central College can apply credit toward the BS in Electronics Engineering Technology at SDSU (Attachment VI).

Once finalized, BOR policy further establishes that all agreements must be reviewed by the Academic Affairs Council (AAC) with a recommendation forwarded to the Council of Presidents and Superintendents and the Board of Regents.

**PROGRAM TO PROGRAM ARTICULATION AGREEMENT**

Between

LARAMIE COUNTY COMMUNITY COLLEGE

and

SOUTH DAKOTA STATE UNIVERSITY

Agreement with Respect to Applying the

**CONSTRUCTION TECHNOLOGY****Associate of Applied Science Degree Program at LCCC**

Toward the

**CONSTRUCTION MANAGEMENT****Bachelor of Science Degree Program at SDSU****I. Parties**

The parties to this agreement are South Dakota State University (SDSU), Brookings SD and Laramie County Community College (LCCC), Cheyenne, Wyoming.

**II. Purpose**

The purpose of this agreement is to:

- A. have a signed articulation agreement that addresses the varying needs of students and complementary 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 LCCC students who have completed the A.A.S. degree in Construction Technology an opportunity to earn a Bachelor of Science degree with a major in Construction Management.

**III. Academic Program****Graduation Requirements for the BS in Construction Management at SDSU**

Construction Management Major requirements:	56
General Education Credits (SGR & IGR) Credits:	37
Block Transfer credits from Laramie County Community College	27
<b>Total Credits Required:</b>	<b>120</b>

- A. Upon successful completion of the major requirements specified in III.B. below, SDSU will accept **27** technical course credits from the A.A.S. degree in Construction Technology for students majoring in Construction Management. Students must successfully complete the A.A.S. degree in Construction Technology from LCCC prior to transferring to SDSU for the block transfer course credits to be accepted. *General Education coursework is in addition to the 27 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 Construction Management are outlined below.

Major requirements: 27 credits

1. CM 320/320L, Construction Soil Mechanics & Lab (3 credits)
2. CM 333, Mechanical, Electrical, Plumbing Systems (3 credits)
3. CM 353/353L, Construction Structures & Lab (3 credits)
4. CM 374, Heavy Construction Methods & Systems (3 credits)
5. CM 410, Construction Project Management (3 credits)
6. CM 443, Construction Planning & Scheduling (3 credits)
7. CM 473, Construction Law and Accounting (3 credits)\* meets Advanced Writing requirement
8. Technical Electives - Construction Science (6 credits)

Required Support Courses: 29 credits

1. ACCT 210, Principles of Accounting I (3 credits)
2. ACCT 211, Principles of Accounting II (3 credits)
3. GE 241, Applied Mechanics (3 credits)
4. MATH 121/121L, Survey of Calculus & Lab (5 credits)
5. MGMT 310, Business Finance (3 credits)
6. MGMT 360, Organization & Management (3 credits)
7. MGMT 325, Management Information Systems (3 credits)
8. MGMT 460, Human Resources Management (3 credits)
9. STAT 281, Introduction to Statistics (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 LCCC 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 BSCM 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 CHEM 106/106L, Chemistry Survey & Lab (SGR 6) (4 credits)
7. Must include PHYS 111/111L, Introduction to Physics I & Lab(SGR 6) (4 credits) [2 credits count toward CM 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 & Globalization) (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: 93**

**Transfer credits from LCCC: 27\*** (additional SGR credits can be earned at LCCC)

**Total credits required for CM at SDSU: 120**

Additional requirements:

1. Students transferring from LCCC 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 Laramie County 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 Laramie County Community College and SDSU. The agreement applies to students who graduated from Laramie County Community College in 2013 and subsequent years.

**VII. Miscellaneous Clauses**

**Indemnification.** To the fullest extent permitted by law, each party to this Agreement shall assume the risk of any liability arising from its own conduct. Neither party agrees to insure, defend nor indemnify the other from any and all lawsuits, losses, liability for injuries, damages, claims, penalties, actions, demands or attorney fees arising from or in connection with the respective services performed under this Agreement.

**Governmental/Sovereign Immunity.** Neither Party to this Agreement waives its Governmental/Sovereign Immunity by entering into this Agreement and specifically retains all immunities and defenses available to it as a governmental entity pursuant to their respective State Statutes (*for Wyoming - WYO. STAT. ANN. § 1-39-101 (2013) et seq.*) and all other applicable laws. Each Party fully retains all immunities and defenses provided by law with regard to any action, whether in tort, contract or any other theory of law, based on this Agreement. Designations of venue, choice of law, enforcement actions, and similar provisions should not be construed as a waiver of sovereign immunity. The parties agree that any ambiguity in this Agreement shall not be strictly construed, either against or for either party, except that any ambiguity as to sovereign immunity shall be construed in favor of sovereign immunity.

**VIII. Acceptance of Agreement:**  
For South Dakota State University:

\_\_\_\_\_ Date: \_\_\_\_\_  
Lew Brown  
Dean, College of Engineering

\_\_\_\_\_ Date: \_\_\_\_\_  
Laurie Stenberg Nichols  
Provost and Vice President for Academic Affairs

For Laramie County Community College:

\_\_\_\_\_ Date: \_\_\_\_\_  
Jose Fierro  
Vice President, Academic Affairs

\_\_\_\_\_ Date: \_\_\_\_\_  
Joe Schaffer  
President, Laramie County Community College

**PROGRAM TO PROGRAM ARTICULATION AGREEMENT**

Between  
 NORTHWEST IOWA COMMUNITY COLLEGE  
 and  
 SOUTH DAKOTA STATE UNIVERSITY

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Agreement with Respect to Applying the  
**Electrical Technology**  
**Associate of Applied Sciences Degree Program at NWICC**  
 Toward the  
**Electronics Engineering Technology**  
**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 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 complementary 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 Electrical Technology an opportunity to earn a Bachelor of Science degree with a major in Electronics Engineering Technology.

**III. Academic Program**

Graduation Requirements for the BS in Electronics Engineering Technology at SDSU

Electronics Engineering Technology Major requirements:	64
General Education (SGR & IGR) credits:	35
<u>Block Transfer credits from NWICC Electrical Technology:</u>	<u>21</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 **21** course credits from the A.A.S. degree in Electrical Technology for students majoring in Electronics Engineering Technology. Students must successfully complete the A.A.S. degree in Electrical Technology 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 Electronics Engineering Technology are outlined below.

Major requirements: 33 credits

1. ET 325/L, Advanced Analog Devices & Lab (3 credits)
2. ET 330/L, Microcontrollers & Networks & Lab (3 credits)
3. ET 332/L, Advanced Digital Devices & Lab (3 credits)
4. ET 380/L, Circuit Boards & Design & Lab (3 credits)
5. ET 426/L, Communication Systems & Lab (3 credits)
7. MNET 367/L, Production Strategy & Lab (3 credits)
8. OM 462, Quality Management (3 credits)
9. OM 469, Project Management (2 credits)
10. ET or OM 471/L\*, Capstone Experience & Lab (2 credits) \*meets Advanced Writing (AW) requirement
11. OM 494, Internship (2 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 BSEET 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.

**Acceptance of Agreement:**

For South Dakota State University:

\_\_\_\_\_ Date: \_\_\_\_\_  
 Lewis Brown  
 Dean, College of Engineering

\_\_\_\_\_ Date: \_\_\_\_\_  
 Laurie Stenberg Nichols  
 Provost and Vice President for Academic Affairs

For Northwest Iowa Community College

\_\_\_\_\_ Date: \_\_\_\_\_

**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>
<b>Total Credits Required:</b>	<b>120</b>

- 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: \_\_\_\_\_

Lewis Brown  
Dean, College of Engineering

\_\_\_\_\_ Date: \_\_\_\_\_

Laurie Stenberg Nichols  
Provost and Vice President for Academic Affairs

For Northwest Iowa Community College

\_\_\_\_\_ Date: \_\_\_\_\_

**PROGRAM TO PROGRAM ARTICULATION AGREEMENT**

Between  
 RIDGEWATER COLLEGE (RC)  
 and  
 SOUTH DAKOTA STATE UNIVERSITY (SDSU)

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Agreement with Respect to Applying the  
**CARPENTRY**  
 Associate of Applied Science Degree Program at RC  
 Toward the  
**CONSTRUCTION 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 Ridgewater College (RC), Willmar Minnesota.

**II. Purpose**

The purpose of this agreement is to:

- A. have a signed articulation agreement that addresses the varying needs of students and complementary 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 RC students who have completed the A.A.S. degree in Carpentry an opportunity to earn a Bachelor of Science degree with a major in Construction Management.

**III. Academic Program****Graduation Requirements for the BS in Construction Management at SDSU**

Construction Management Major requirements:	70
General Education Credits (SGR & IGR) Credits:	35
<u>Block Transfer credits from Ridgewater College</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 Carpentry for students majoring in Construction Management. Students must successfully complete the A.A.S. degree in Carpentry from RC prior to transferring to SDSU for the block transfer course credits to be accepted. *General Education coursework is in addition to the 15 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 Construction Management are outlined below.

Major requirements: 39 credits

1. CM 210/210L, Construction Surveying & Lab (3 credits)
2. CM 320/320L, Construction Soil Mechanics & Lab (3 credits)
3. CM 333, Mechanical, Electrical, Plumbing Systems (3 credits)
4. CM 353/353L, Construction Structures & Lab (3 credits)
5. CM 374, Heavy Construction Methods & Systems (3 credits)
6. CM 400, Risk Management & Construction Safety (3 credits)
7. CM 410, Construction Project Management (3 credits)
8. CM 443, Construction Planning & Scheduling (3 credits)
9. CM 471, Capstone Experience (2 credits)
10. CM 473, Construction Law and Accounting (3 credits)\* meets Advanced Writing requirement
11. Technical Electives - Construction (10 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 241, Applied Mechanics (3 credits)
4. MATH 121/121L, Survey of Calculus & Lab (5 credits)
5. MGMT 310, Business Finance (3 credits)
6. MGMT 360, Organization & Management (3 credits)
7. MGMT 325, Management Information Systems (3 credits)
8. MGMT 460, Human Resources Management (3 credits)
9. STAT 281, Introduction to Statistics (3 credits)
10. SGR #6 Sciences (2 extra 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 RC 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 BSCM 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 CHEM 106/106L, Chemistry Survey & Lab (SGR 6) (4 credits)
7. Must include PHYS 111/111L, Introduction to Physics I & Lab(SGR 6) (4 credits) [2 credits count toward CM 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 & Globalization) (3 credits)
10. 7 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 RC: 15\*** (additional SGR credits can be earned at RC)

**Total credits required for CM at SDSU: 120**

Additional requirements:

1. Students transferring from RC 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 Ridgewater 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 Ridgewater College and SDSU.

**VII. Acceptance of Agreement:**

For South Dakota State University:

\_\_\_\_\_ Date: \_\_\_\_\_

Lewis Brown  
Dean, College of Engineering

\_\_\_\_\_ Date: \_\_\_\_\_

Laurie Stenberg Nichols  
Provost and Vice President for Academic Affairs

For Ridgewater College:

\_\_\_\_\_ Date: \_\_\_\_\_

**PROGRAM TO PROGRAM ARTICULATION AGREEMENT**

Between  
 RIDGEWATER COLLEGE  
 and  
 SOUTH DAKOTA STATE UNIVERSITY

---

Agreement with Respect to Applying the  
**Electronics Technician**  
**Associate of Applied Sciences Degree Program at RC**  
 Toward the  
**Electronics Engineering Technology**  
**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 Ridgewater College (RC), Hutchinson MN.

**II. Purpose**

The purpose of this agreement is to:

- A. have a signed articulation agreement that addresses the varying needs of students and complementary 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 RC students who have completed the A.A.S. degree in Electronics Technician an opportunity to earn a Bachelor of Science degree with a major in Electronics Engineering Technology.

**III. Academic Program**

Graduation Requirements for the BS in Electronics Engineering Technology at SDSU

Electronics Engineering Technology Major requirements:	61
General Education (SGR & IGR) credits:	35
<u>Block Transfer credits from RC Electronics Technician:</u>	<u>24</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 **24** course credits from the A.A.S. degree in Electronics Technician for students majoring in Electronics Engineering Technology. Students must successfully complete the A.A.S. degree in Electronics Technician from RC before transferring to SDSU for the block transfer course credits to be accepted. *General Education coursework is in addition to the 24 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 Electronics Engineering Technology are outlined below.

Major requirements: 30 credits

1. ET 325/L, Advanced Analog Devices & Lab (3 credits)
2. ET 332/L, Advanced Digital Devices & Lab (3 credits)
3. ET 345/L, Power Systems & Lab (3 credits)
4. ET 380/L, Circuit Boards & Design & Lab (3 credits)
5. ET 426/L, Communication Systems & Lab (3 credits)
6. ET 451/L, Industrial Controls & PLCs & Lab (3 credits)
7. MNET 367/L, Production Strategy & Lab (3 credits)
8. OM 462, Quality Management (3 credits)
9. OM 469, Project Management (2 credits)
10. ET or OM 471/L\*, Capstone Experience & Lab (2 credits) \*meets Advanced Writing (AW) requirement
11. OM 494, Internship (2 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 RC 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 BSEET 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: 96**

**Transfer credits from RC: 24\*** (additional SGR credits can be earned at RC)

**Total credits required: 120**

Additional requirements:

1. Students transferring from RC 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 Ridgewater 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 RC and SDSU.

**Acceptance of Agreement:**

For South Dakota State University:

\_\_\_\_\_ Date: \_\_\_\_\_  
 Lewis Brown  
 Dean, College of Engineering

\_\_\_\_\_ Date: \_\_\_\_\_  
 Laurie Stenberg Nichols  
 Provost and Vice President for Academic Affairs

For Ridgewater College:

\_\_\_\_\_ Date: \_\_\_\_\_

**PROGRAM TO PROGRAM ARTICULATION AGREEMENT**

Between  
SOUTH CENTRAL COLLEGE  
and  
SOUTH DAKOTA STATE UNIVERSITY

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Agreement with Respect to Applying the  
**Mechatronics Engineering Technology**  
**Associate of Applied Sciences Degree Program at SCC**  
Toward the  
**Electronics Engineering Technology**  
**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 South Central College (SCC), Mankato MN.

**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 SCC students who have completed the A.A.S. degree in Mechatronics Engineering Technology an opportunity to earn a Bachelor of Science degree with a major in Electronics Engineering Technology.

**III. Academic Program**

Graduation Requirements for the BS in Electronics Engineering Technology at SDSU

Electronics Engineering Technology Major requirements:	64
General Education (SGR & IGR) credits:	35
<u>Block Transfer credits from SCC Mechatronics Engineering Technology:</u>	<u>21</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 **21** course credits from the A.A.S. degree in Mechatronics Engineering Technology for students majoring in Electronics Engineering Technology. Students must successfully complete the A.A.S. degree in Mechatronics Engineering Technology from SCC 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 Electronics Engineering Technology are outlined below.

Major requirements: 33 credits

1. ET 320/L, Analog Electronics & Lab (3 credits)
2. ET 325/L, Advanced Analog Devices & Lab (3 credits)
3. ET 330/L, Microcontrollers & Networks & Lab (3 credits)
4. ET 332/L, Advanced Digital Devices & Lab (3 credits)
5. ET 380/L, Circuit Boards & Design & Lab (3 credits)
6. ET 426/L, Communication Systems & Lab (3 credits)
7. MNET 367/L, Production Strategy & Lab (3 credits)
8. OM 462, Quality Management (3 credits)
9. OM 469, Project Management (2 credits)
10. ET or OM 471/L\*, Capstone Experience & Lab (2 credits) \*meets Advanced Writing (AW) requirement
11. OM 494, Internship (2 credits)
12. Electronics Technical Elective (3 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 SCC 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 BS-EET 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 SCC: 21\*** (additional SGR credits can be earned at SCC)

**Total credits required: 120**

Additional requirements:

1. Students transferring from SCC 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 South Central 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 SCC and SDSU.

**VII. Acceptance of Agreement:**

For South Dakota State University:

\_\_\_\_\_ Date: \_\_\_\_\_  
 Lewis Brown  
 Dean, College of Engineering

\_\_\_\_\_ Date: \_\_\_\_\_  
 Laurie Stenberg Nichols  
 Provost and Vice President for Academic Affairs

For South Central College

\_\_\_\_\_ Date: \_\_\_\_\_  
 President, SCC