SOUTH DAKOTA BOARD OF REGENTS

Committee on Academic and Student Affairs

AGENDA ITEM: II – I

DATE: April 2-3, 2014

*************************

SUBJECT: Articulation Agreements – SDSU

South Dakota State University requests approval for the following set of articulation agreements:

- Students completing the AAS in Mechanical Drafting, Design & Engineering Technology at Alexandria Technical & Community College can apply credit toward the BS in Operations Management at SDSU (Attachment I);

- Students completing the AAS in Mechatronics at Alexandria Technical & Community College can apply credit toward the BS in Operations Management at SDSU (Attachment II);

- Students completing the AS in Agriculture at Ridgewater College can apply credit toward the BS in Agricultural Science at SDSU (Attachment III);

- Students completing the AS in Agricultural Science and Technology at Ridgewater College can apply credit toward the BS in Agricultural Education, Communication, and Leadership – Education Specialization at SDSU (Attachment IV);

- Students completing the AAS in Agri-Business or Farm Operation and Management or GPS/GIS Technology for Agriculture at Ridgewater College can apply credit toward the BS in Agricultural Business at SDSU (Attachment V); and

- Students completing the AAS in Dairy Management at Ridgewater College can apply credit toward the BS in Dairy Production at SDSU (Attachment VI);

*************************

RECOMMENDED ACTION OF THE EXECUTIVE DIRECTOR

Approve the articulation agreements between SDSU and Alexandria Technical & Community College; and Ridgewater College.
PROGRAM TO PROGRAM ARTICULATION AGREEMENT
Between
ALEXANDRIA TECHNICAL & COMMUNITY COLLEGE
and
SOUTH DAKOTA STATE UNIVERSITY

Agreement with Respect to Applying the
Mechanical Drafting, Design & Engineering Technology
Associate of Applied Sciences Degree Program at ATCC
Toward the
Operations Management (Manufacturing Emphasis)
Bachelor of Science Degree Program at SDSU

I. Parties

The parties to this agreement are South Dakota State University (SDSU), Brookings SD and Alexandria Technical and Community College (ATCC), Alexandria 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 ATCC students who have completed the A.A.S. degree in Mechanical Drafting, Design & Engineering 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 requirements: 62
General Education (SGR & IGR) credits: 35
Block Transfer credits from ATCC Mechanical Drafting, Design & ET: 23
Total Credits Required: 120

A. Upon successful completion of the major requirements specified in III.B. below, SDSU will accept 23 course credits from the A.A.S. degree in Mechanical Drafting, Design & Engineering Technology for students majoring in Operations Management. Students must successfully complete the A.A.S. degree in Mechanical Drafting, Design & Engineering Technology from ATCC before transferring to SDSU for the block transfer course credits to be accepted. General Education coursework is in addition to the 23 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: 31 credits**
1. ET 451/L, Industrial Controls & PLCs & Lab (3 credits)
2. GE 425, Occupational Safety & Health (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: 31 credits**
1. ACCT 210, Principles of Accounting I (3 credits)
2. ACCT 211, Principles of Accounting II (3 credits)
3. MATH 121/L, Survey of Calculus & Lab (5 credits)
4. MGMT 310, Business Finance (3 credits)
5. MGMT 325, Management Information Systems (3 credits)
6. MGMT 360, Organization & Management (3 credits)
7. MGMT 460, Human Resource Management (3 credits)
8. STAT 281, Introduction to Statistics (3 credits)
9. STAT 441, Statistical Methods II (3 credits)
10. 2 credits from SGR# 6 counted here (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 ATCC 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) (3 credits) – meets globalization (G) requirement
5. Must include MATH 102, College Algebra (SGR 5) (3 credits)
6. Must include CHEM 106/106L, 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 (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:** 97
**Transfer credits from ATCC:** 23 (additional SGR credits can be earned at ATCC)
**Total credits required:** 120
Additional requirements:
1. Students transferring from ATCC 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
The South Dakota Board of Regents and Alexandria Technical and Community College may modify this agreement from time to time. 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 2014 semester term at ATCC and SDSU. The agreement applies to students who graduated from ATCC in 2010 and subsequent years.

Acceptance of Agreement:
For South Dakota State University:

[Signature]
Laurie Stenberg Nichols
Provost and Vice President for Academic Affairs

Date: 1-2-2014

For Alexandria Technical and Community College

[Signature]
President, ATCC

Date: 12.13.17
PROGRAM TO PROGRAM ARTICULATION AGREEMENT

Between
ALEXANDRIA TECHNICAL & COMMUNITY COLLEGE
and
SOUTH DAKOTA STATE UNIVERSITY

Agreement with Respect to Applying the
Mechatronics
Associate of Applied Sciences Degree Program at ATCC
Toward the
Operations Management (Manufacturing Emphasis)
Bachelor of Science Degree Program at SDSU

I. Parties

The parties to this agreement are South Dakota State University (SDSU), Brookings SD and Alexandria Technical and Community College (ATCC), Alexandria 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 ATCC students who have completed the A.A.S. degree in Mechatronics 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 requirements: 58
General Education (SGR & IGR) credits: 35
Block Transfer credits from ATCC Mechatronics: 27
Total Credits Required: 120

A. Upon successful completion of the major requirements specified in III.B. below, SDSU will accept 27 course credits from the A.A.S. degree in Mechatronics for students majoring in Operations Management. Students must successfully complete the A.A.S. degree in Mechatronics from ATCC before transferring to SDSU for the block transfer course credits to be accepted. General Education coursework is in addition to the 27 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: 27 credits
1. GE 310, Geometric Dimensioning & Tolerancing (2 credits)
2. GE 425, Occupational Safety & Health (3 credits)
3. MNET 460, Manufacturing Cost Analysis (3 credits)
4. OM 425, Production / Operations Management, (3 credits)
5. OM 462, Quality Management (3 credits)
6. OM 463, Supply Chain Management (3 credits)
7. OM 465, Quality Control Applications (3 credits)
8. OM 469, Project Management (2 credits)
9. OM 471/L*, Capstone Experience & Lab (2 credits) *meets Advanced Writing (AW) requirement
9. OM 494, Internship (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. MATH 121/L, Survey of Calculus & Lab (5 credits)
4. MGMT 310, Business Finance (3 credits)
5. MGMT 325, Management Information Systems (3 credits)
6. MGMT 360, Organization & Management (3 credits)
7. MGMT 460, Human Resource Management (3 credits)
8. STAT 281, Introduction to Statistics (3 credits)
9. STAT 441, Statistical Methods II (3 credits)
10. 2 credits from SGR#6 counted here (see below) – counted these two here and NOT 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 ATCC 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) (3 credits) – meets globalization (G) requirement
5. Must include MATH 102, College Algebra (SGR 5) (3 credits)
6. Must include CHEM 106/106L, 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 (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: 93
Transfer credits from ATCC: 27 (additional SGR credits can be earned at ATCC)
Total credits required: 120
Additional requirements:
1. Students transferring from ATCC 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
The South Dakota Board of Regents and Alexandria Technical and Community College may modify this agreement from time to time. 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 2014 semester term at ATCC and SDSU. The agreement applies to students who graduated from ATCC in 2010 and subsequent years.

Acceptance of Agreement:
For South Dakota State University:

Laurie Stenberg Nichols
Provost and Vice President for Academic Affairs

Date: 1-2-2014

For Alexandria Technical and Community College

President, ATCC

Date: 12.3.13
PROGRAM TO PROGRAM ARTICULATION AGREEMENT

with Respect to Applying the

AGRICULTURE
Associate in Science Degree Program

Towards the
AGRICULTURAL SCIENCE MAJOR
Bachelor of Science Degree Program

Between
RIDGEWATER COLLEGE
and
SOUTH DAKOTA STATE UNIVERSITY (SDSU)

I. Parties
The parties to this agreement are South Dakota State University (SDSU), Brookings, SD and Ridgewater College, Willmar, MN.

II. Purpose
The purpose of this agreement is to:
A. have a signed 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 Ridgewater College students who have completed the A.S. degree in Agriculture an opportunity to earn a Bachelor of Science degree with a major in Agricultural Science.

III. Academic Program
A. Upon successful completion of the major requirements specified below, SDSU will accept 60 course credits from the A.S. degree in Agriculture Technology for students majoring in Agricultural Science. Students must successfully complete the A.S. degree in Agriculture from Ridgewater prior to transferring to SDSU in order for this agreement to apply. Students must meet all South Dakota 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 Agricultural Science are outlined below.

Note: Ridgewater College courses are listed in *italics* font, whereas SDSU courses are listed in normal font.

System General Education Graduation Requirements (SGR): minimum 31 credits required of which 22 credits are completed within the A.S. in Agriculture at Ridgewater College. If any of the requirements noted below as "met as Ridgewater College" are not completed at Ridgewater College, then the student will need to complete those requirements at SDSU or by transfer of approved equivalent courses.
1. Goal #1: Written Communication:
   a. ENGL 101, Composition I (3 credits, met at Ridgewater by ENGL 121, College Composition I)
   b. ENGL 201, Composition II (3 credits, met at Ridgewater by ENGL 122, College Composition II)
2. Goal #2: Oral Communication: (3 credits, met at Ridgewater by CMST 220, Public Speaking)
   a. ECON 201 (3 credits, met at Ridgewater by ECON 206 Principles of Microeconomics)
   b. Additional course with non-ECON prefix from approved list
4. Goal #4: Arts and Humanities/Diversity (6 credits from 2 disciplines from list in SDSU Bulletin)
5. Goal #5: Mathematics: Math 102, College Algebra, or Math 115 Precalculus, or higher (3 credits, met at Ridgewater by MATH 112, College Algebra, 4 credits)
   a. BIOL 101-101L, Biology Survey I and Lab (3 credits, met at Ridgewater by BIOL 100 Introduction to Biology, 4 credits)
   b. CHEM 106-106L, Chemistry Survey and Lab (4 credits 4 credits, met at Ridgewater by CHEM 102, General Chemistry I or CHEM 151, Principles of Chemistry I)
7. Advanced Writing requirement met by completion of major requirements below.
8. Globalization requirement: one course from the Globalization list in the SDSU Bulletin must be completed. Students can select a course which also meets an SGR or IGR goal.

Institutional Graduation Requirements (IGR): minimum 5 credits of which 3 will be met at Ridgewater College
1. IGR Goal#1: First Year Seminar. (2 credits from list in SDSU Bulletin; ABS 109 suggested)
2. IGR Goal#2: Met at Ridgewater

Major and Support Course Requirements:
1. BIOL 103-103L, Biology Survey II and Lab (3 credits)
2. ACCT 210, Accounting (3 credits) or STAT 281 Introduction to Statistics (3 credits)
3. AGEC 271-271L, Farm and Ranch Management and Lab (4 credits)
4. AGEC 354, Agricultural Marketing and Prices (3 credits)
5. Science Elective. Choose from one of the following:
   a. CHEM 108-108L, Organic and Biochemistry and Lab (5 credits)
   b. CHEM 120-120L, Elementary Organic Chemistry and Lab (4 credits)
   c. MICR 231-231L, General Microbiology and Lab (4 credits)
   d. PHYS 101-101L, Survey of Physics I and Lab (4 credits)
6. Select One:
   a. BIOL 371, Genetics (3 credits)
   b. PS 383-383L, Principles of Crop Improvement and Lab (3 credits)
   c. AS 332, Livestock Breeding and Genetics (4 credits)
7. Ag Processing Elective. Select One:
   a. AS 241-241L, Introduction to Meat Science and Lab (3 credits)
c. AST 443-443L, Food Processing and Engineering Fundamentals and Lab (3 credits)
d. DS 231, Dairy Foods (3 credits)
e. PS 303-303L, Seed Technology and Lab (3 credits)
f. PS 308-308L, Grain Grading and Lab (3 credits)
g. PS 312, Grain and Seed Production and Processing (3 credits)

8. Capstone Elective. Choose one of the following (3-4 credits):
   a. ABS 475-475L, Integrated Natural Resource Management and Lab (3 credits)
   b. AGEC 421, Farming and Food Systems Economics (3 credits)
   c. AS 474-474L, Cow/Calf Management and Lab (3 credits)
   d. AS 477-477L, Sheep and Wool Production and Lab (3 credits)
   e. AS 478-478L, Swine Production and Lab (3 credits)
   f. AST 303-303L, Design Management Experience and Lab (3 credits)
   g. DS 412-412L, Dairy Farm Management and Lab (4 credits)
   h. PS 440-440L, Crop Management with Precision Farming and Lab (3 credits)
   i. RANG 485-485L, Advanced Integrated Ranch Management and Lab (3 credits)

9. Communication Elective (Meets the Advanced Writing Requirement). Select one from the following (3 credits):
   a. ABS 475-475L, Integrated Natural Resource Management and Lab (3 credits)
   b. ENGL 379, Technical Communication (3 credits)

10. Program Electives as needed to reach 120 credit hours total needed for graduation

**Total minimum number of credits at SDSU: 60**

**Transfer block credits from Ridgewater College: 60**

**Total credits required: 120**

***Additional transferable general education course credits could be completed at Ridgewater College, and would reduce the number of general education credits at SDSU. However, no more than 60 credits total can be transferred from Ridgewater College to SDSU.

Additional requirements:

a. Students transferring from Ridgewater College must have a cumulative GPA of "C" (2.0 on a 4.0 scale). Any course taken at Ridgewater College with a grade below a "C" (2.0 on a 4.0 scale) must be retaken at SDSU if required for the SDSU Agricultural Science Major.

b. 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 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 Spring 2014 semester term at Ridgewater College and SDSU.

VII. Acceptance of Agreement

For South Dakota State University:

Dr. Laurie Nichols
Provost and Vice President for Academic Affairs

Date:

Dr. Jack Warner
Executive Director, South Dakota Board of Regents

For Ridgewater College:

President

Date: 12/17/13
PROGRAM TO PROGRAM ARTICULATION AGREEMENT

with Respect to Applying the

AGRICULTURAL SCIENCE AND TECHNOLOGY
Associate in Science Degree Program

Towards the
AGRICULTURAL EDUCATION, COMMUNICATION, AND LEADERSHIP MAJOR:
EDUCATION SPECIALIZATION
Bachelor of Science Degree Program

Between
RIDGEWATER COLLEGE
and
SOUTH DAKOTA STATE UNIVERSITY (SDSU)

I. Parties
The parties to this agreement are South Dakota State University (SDSU), Brookings, SD and Ridgewater College, Willmar, MN.

II. Purpose
The purpose of this agreement is to:
A. have a signed 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 Ridgewater College students who have completed the A.S. degree in Agricultural Science and Technology an opportunity to earn a Bachelor of Science degree with a major in Agricultural Education, Communication, and Leadership: Education Specialization.

III. Academic Program
A. Upon successful completion of the requirements specified below, SDSU will accept 60 course credits from the A.S. degree in Agricultural Science and Technology for students majoring in Agricultural Education, Communication, and Leadership: Education Specialization. Students must successfully complete the A.S. degree in Agricultural Science and Technology from Ridgewater prior to transferring to SDSU in order for this agreement to apply. Students must meet all South Dakota 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 Agricultural Education, Communication, and Leadership: Education Specialization are outlined below.

Note: Ridgewater College courses are listed in *italics* font, whereas SDSU courses are listed in normal font.

**System General Education Graduation Requirements (SGR):** minimum 31 credits required, all of which should be completed within the A.S. in Agricultural Science and Technology at Ridgewater College. If any of the requirements noted below as "met as Ridgewater College"
are not completed at Ridgewater College, then the student will need to complete those requirements at SDSU or by transfer of approved equivalent courses.

1. Goal #1: Written Communication:
   a. ENGL 101, Composition I (3 credits, met at Ridgewater by ENGL 121, College Composition I)
   b. ENGL 201, Composition II (3 credits, met at Ridgewater by ENGL 122, College Composition II)

2. Goal #2: Oral Communication: (3 credits, met at Ridgewater by CMST 121, Introduction to Communications)

   a. ECON 201, Microeconomics (3 credits, met at Ridgewater by ECON 206 Principles of Microeconomics)
   b. SOC 100, Sociology (met at Ridgewater by SOC 105, Introduction to Sociology)

4. Goal #4: Arts and Humanities/Diversity (6 credits from 2 disciplines from list in SDSU Bulletin; met at Ridgewater by completion of 6 credits from 2 disciplines from MNTC Goal 6: The Humanities and Fine Arts)

5. Goal #5: Mathematics: Math 102, College Algebra (3 credits, met at Ridgewater College by MATH 112, College Algebra, 4 credits)

   a. BIOL 101-101L, Biology Survey I and Lab (3 credits, met at Ridgewater by BIOL 100 Introduction to Biology, 4 credits)
   b. CHEM 106-106L, Chemistry Survey and Lab (4 credits, met at Ridgewater by CHEM 102, General Chemistry I or CHEM 151, Principles of Chemistry I)

7. Advanced Writing requirement met by completion of major requirements below.

8. Globalization requirement: Met by completion of requirements listed above (SOC 100)

Institutional Graduation Requirements (IGR): minimum 5 credits required

1. IGR Goal #1: First Year Seminar (2 credits, met by completion of the A.S. in Agricultural Science and Technology at Ridgewater College)

2. IGR Goal #2: Cultural Awareness and Social and Environmental Responsibility (3 credits, met by completion of requirements below)

Major and Support Course Requirements to be Completed by Taking Electives at Ridgewater College. If any of the requirements noted below as “met as Ridgewater College” are not completed at Ridgewater College, then the student will need to complete those requirements at SDSU or by transfer of approved equivalent courses.

1. AGEC 271-271L, Farm and Ranch Management and Lab (4 credits, met at Ridgewater by AGRI 125, Farm Records & Business Analysis or AGRI 1621 Farm Management I)

2. AS 101-101L, Introduction to Animal Science and Lab (3 credits, met at Ridgewater by AGRI 126 or AGRI 1810, Introductory Animal Science;

3. GEOG 131-131L, Physical Geography: Weather and Climate and Lab (4 credits, met at Ridgewater by GEOG 140, Introduction to Geography)

4. PS 103-103L, Crop Production and Lab (3 credits, met at Ridgewater by AGRI 112 or AGRI 1660, Principles of Agronomy)

5. PS 213-213L, Soils (3 credits, met at Ridgewater by AGRI 111 or AGRI 1650, Soil and Fertility Management)

6. NRM 110, Environmental Conservation or WL 220, Introduction to Wildlife and Fisheries Management (3 credits met at Ridgewater by BIOL 131, Conservation of Natural Resources or BIOL 141, Environmental Science)

7. PHYS 101-101L, Survey of Physics I and Lab (4 credits, met at Ridgewater by PHYS 101, College Physics)
Major and Support Course Requirements to be Completed at SDSU: minimum 60 credits

1. Choose one of the following:
   a. BIOL 103-103L, Biology Survey II and Lab (3 credits)
   b. GEOG 132-132L, Physical Geography: Natural Landscapes and Lab (4 credits)
2. ANTH 421, Indians of North America (3 credits)
3. AS 241-241L, Introduction to Meat Science and Lab (3 credits)
5. AST 202-202L, Construction Technology and Materials and Lab (2 credits)
6. AST 311-311L, Applied Electricity for Teachers and Lab (1 credit)
7. AST 211-211L, Ag and Outdoor Power for Teachers and Lab (1 credit)
8. HO 111-111L, Biology of Horticulture and Lab (3 credits)
9. DS 130-130L, Introduction to Dairy Science and Lab or DS 231, Dairy Foods (3 credits)
10. AGED 491, Independent Study (Welding, 1 credit)
11. AGED 404, Program Plan in Agricultural Education (3 credits)
12. AGED 408, Supervision of Work Experience and Youth Organizations (2 credits)
13. AGED 412-412L, Preparation for Supervised Teaching Internship in AGED ad Lab (4 credits)
14. AGED 488, 7-12 Student Teaching in AGED (6 credits)
15. AGED 499, Internship (1 credit)
16. AGED 405, Philosophy of Career and Technical Education (2 credits)
17. AGED 295, Practicum (1 credit)
18. EDFN 365, Computer-Based Technology and Learning (2 credits)
19. EDFN 427, Middle School: Philosophy and Application (2 credits)
20. EDFN 475, Human Relations (3 credits)
21. ESPY 302, Educational Psychology (3 credits)
22. SEED 314, Supervised Clinical/Field Experience (1 credit)
23. SEED 420-420L, 5-12 Teaching Methods and Lab (2 credits)
24. SPED 405, Educating Secondary Students with Disabilities (2 credits)
25. SEED 450, 7-12 Reading and Content Literacy (2 credits)

Total minimum number of credits at SDSU: 60
Transfer block credits from Ridgewater College: 60
Total credits required: 120

Additional requirements:

a. Students transferring from Ridgewater College must have a cumulative GPA of "C" (2.0 on a 4.0 scale). Any course taken at Ridgewater College with a grade below a "C" (2.0 on a 4.0 scale) must be retaken at SDSU if required for the SDSU Agricultural Education, Communication, and Leadership Major: Education Specialization.

b. 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 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 Spring 2014 semester term at Ridgewater College and SDSU.

VII. Acceptance of Agreement

For South Dakota State University:

[Signature]
Date: 1-2-2014

Dr. Laurie Nichols
Provost and Vice President for Academic Affairs

[Signature]
Date:

Dr. Jack Warner
Executive Director, South Dakota Board of Regents

For Ridgewater College:

[Signature]
Date: 12/17/13

President
PROGRAM TO PROGRAM ARTICULATION AGREEMENT

with Respect to Applying the

AGRI-BUSINESS
Or
FARM OPERATION AND MANAGEMENT
Or
GPS/GIS TECHNOLOGY FOR AGRICULTURE
Applied Associate in Science Degree Program

Towards the
AGRICULTURAL BUSINESS MAJOR
Bachelor of Science Degree Program

Between
RIDGEWATER COLLEGE
and
SOUTH DAKOTA STATE UNIVERSITY (SDSU)

I. Parties
The parties to this agreement are South Dakota State University (SDSU), Brookings, SD and Ridgewater College, Willmar, MN.

II. Purpose
The purpose of this agreement is to:
A. have a signed 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 Ridgewater College students who have completed the A.A.S. degree in Agri-Business an opportunity to earn a Bachelor of Science degree with a major in Agricultural Business at SDSU.

III. Academic Program
A. Upon successful completion of the requirements specified below, SDSU will accept 30 technical course credits from the A.A.S. degree in Agri-Business for students majoring in Agricultural Business. Students must successfully complete the A.A.S. degree in Agri-Business from Ridgewater College prior to transferring to SDSU in order for this agreement to apply. Students must meet all South Dakota 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 Agricultural Business are outlined below.

Major and Support Course Requirements: minimum 51 credits
1. ACCT 210, Principles of Accounting I (3 credits)
2. ACCT 211, Principles of Accounting II (3 credits)
3. ECON 202, Macroeconomics (3 credits)
4. ECON 301, Intermediate Microeconomics (3 credits)
5. STAT 281, Introduction to Statistics (3 credits)
6. BADM 310, Business Finance (3 credits)
7. BADM 360, Organization and Management (3 credits)
8. BADM 424, Operations Research (3 credits)
9. BADM 460, Human Resource Management (3 credits)
10. AGEC 354, Agricultural Marketing and Prices (3 credits)
11. AGEC 479, Agricultural Policy (3 credits)
12. CSC 325, Management Information Systems (3 credits)
13. ENGL 379, Technical Communications (3 credits)
14. AGEC 371, Agricultural Business Management (3 credits)
15. Select one:
   a. BADM 350, Legal Environment of Business (3 credits)
   b. AGEC 352, Agricultural Law (3 credits)
16. Select one:
   a. ECON 302, Intermediate Macroeconomics (3 credits)
   b. ECON 330, Money and Banking (3 credits)
17. Select one of the following (3 credits):
   a. AGEC 364, Introduction to Cooperatives (3 credits)
   b. AGEC 372, Introduction to Resource and Environmental Economics (3 credits)
   c. AGEC 430, Advanced Agricultural Marketing and Prices (3 credits)
   d. AGEC 454, Economics of Grain and Livestock Marketing (3 credits)
   e. AGEC 471, Advanced Farm & Ranch Management (3 credits)
   f. AGEC 473-473L, Rural Real Estate Appraisal and Lab (3 credits)
   g. AGEC 478-478L, Agricultural Finance and Lab (3 credits)
   h. AGEC 484, Trading in Agricultural Futures and Options (3 credits)
   i. AGEC 494, Internship (1-6 credits)
   j. ECON 472, Resource and Environmental Economics (3 credits)

System General Education Graduation Requirements (SGR): 35-36 credits
Goal #1: Written Communication:
   a. ENGL 101, Composition I (3 credits)
   b. ENGL 201, Composition II (3 credits)
2. Goal #2: Oral Communication: (3 credits)
   a. ECON 201 (3 credits)
   b. Additional course with non-ECON prefix from approved list
4. Goal #4: Arts and Humanities/Diversity (6 credits from 2 disciplines from list in SDSU Bulletin)
5. Goal #5: Mathematics: Math 121-121L, Survey of Calculus and Lab, or Math 123, Calculus I (4 credits). Note: the required prerequisite for MATH 121-121L is MATH 102, College Algebra (3 credits)
7. Advanced Writing requirement met by completion of major requirements below.
8. Globalization requirement: one course from the Globalization list in the SDSU Bulletin must be completed. Students may want to consider selecting a Globalization course which simultaneously meets an SGR or IGR goal.

Institutional Graduation Requirements (IGR): minimum 5 credits of which 3 will be met at Ridgewater College
1. IGR Goal#1: First Year Seminar (2 credits from list in SDSU Bulletin)
2. IGR Goal#2: From approved list (3 credits)

Total minimum number of credits at SDSU: 90***
Transfer block credits from Ridgewater College: 30
Total credits required: 120

*** Transferable general education course credits could be completed at Ridgewater College, and would reduce the number of general education credits at SDSU. However, no more than 60 credits total can be transferred from Ridgewater College to SDSU.

Additional requirements:

a. Students transferring from Ridgewater College must have a cumulative GPA of "C" (2.0 on a 4.0 scale). Any course taken at Ridgewater College with a grade below a "C" (2.0 on a 4.0 scale) must be retaken at SDSU if required for the SDSU Agricultural Business Major.

b. 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 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 Spring 2014 semester term at Ridgewater College and SDSU.

VII. Acceptance of Agreement

For South Dakota State University:

[Signature] Date: 2-88-2014
Dr. Laurie Nichols
Provost and Vice President for Academic Affairs

Date:

Dr. Jack Warner
Executive Director, South Dakota Board of Regents

For Ridgewater College:

[Signature] Date: 2/12/14
Dr. Douglas Allen, President
PROGRAM TO PROGRAM ARTICULATION AGREEMENT

with Respect to Applying the

DAIRY MANAGEMENT
Associate in Applied Science Degree Program

Towards the
DAIRY PRODUCTION MAJOR
Bachelor of Science Degree Program

Between
RIDGEWATER COLLEGE
and
SOUTH DAKOTA STATE UNIVERSITY (SDSU)

I. Parties

The parties to this agreement are South Dakota State University (SDSU), Brookings, SD and Ridgewater College, Willmar, MN.

II. Purpose

The purpose of this agreement is to:
A. have a signed 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 Ridgewater College students who have completed the A.A.S. degree in Dairy Management an opportunity to earn a Bachelor of Science degree with a major in Dairy Production.

III. Academic Program

A. Upon successful completion of the major requirements specified below, SDSU will accept 34 technical course credits from the A.A.S. degree in Dairy Management for students majoring in Dairy Production. Students must successfully complete the A.A.S. degree in Dairy Management from Ridgewater College prior to transferring to SDSU in order for this agreement to apply. Students must meet all South Dakota 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 Dairy Production are outlined below.

Major and Support Course Requirements: minimum 50 credits
1. AS 323, Advanced Animal Nutrition (3 credits)
2. AS 433-433L, Livestock Reproduction and Lab (3 credits)
3. AST 463, Agricultural Waste Management (3 credits)
4. BIOL 103-103L, Biology Survey II and Lab (3 credits)
5. Select One:
   a. BIOL 371, Genetics (3 credits)
   b. AS 332, Livestock Breeding and Genetics (4 credits)

6. Select One:
   a. CHEM 108-108L, Organic and Biochemistry and Lab (5 credits)
   b. CHEM 120-120L, Elementary Organic Chemistry and Lab (4 credits)

7. DS 202, Dairy Products Judging (1 credit)
8. DS 212, Dairy Cattle Evaluation (2 credits)
9. DS 301-301L, Dairy Microbiology and Lab (3 credits)
10. DS 411-411L, Dairy Breeds and Breeding and Lab (3 credits)
11. DS 412-412L, Dairy Farm Management and Lab (4 credits)
12. DS 413, Physiology of Lactation (3 credits)
13. DS 432, Dairy Cattle Feeding (3 credits)
14. DS 490, Seminar (1 credit)
15. DS 496, Field Experience (3 credits)
16. MICR 231-231L, General Microbiology and Lab (4 credits)

17. Select One:
   a. PHYS 101-101L, Survey of Physics I and Lab (4 credits)
   b. PHYS 111-111L, Introduction to Physics I and Lab (4 credits)
   c. PHYS 211-211L, University Physics I and Lab (4 credits)

System General Education Graduation Requirements (SGR): 35-36 credits

1. Goal #1: Written Communication:
   • ENGL 101, Composition I (3 credits)
   • ENGL 201, Composition II (3 credits)

2. Goal #2: Oral Communication: (3 credits)

   a. ECON 202 (3 credits)
   b. Additional course with non-ECON prefix from approved list

4. Goal #4: Arts and Humanities/Diversity (6 credits from 2 disciplines from list in SDSU Bulletin)

5. Goal #5: Mathematics: Math 102, College Algebra, or Math 115 Precalculus, or higher (3 credits)

   a. BIOL 101-101L, Biology Survey and Lab (3 credits)
   b. CHEM 106-106L, Chemistry Survey and Lab or CHEM 112-112L, General Chemistry I and Lab (4 credits)

7. Advanced Writing requirement met by completion of major requirements below (DS 490, Seminar).

8. Globalization requirement: one course from the Globalization list in the SDSU Bulletin must be completed. Students can select a course which also meets an SGR or IGR goal.

Institutional Graduation Requirements (IGR): minimum 5 credits

1. IGR Goal#1: DS 109, First Year Seminar (2 credits)
2. IGR Goal#2: From approved list (3 credits)

Total minimum number of credits at SDSU: 86***
Transfer block credits from Ridgewater College: 34
Total credits required: 120

*** Transferable general education course credits can be completed at Ridgewater College, and would reduce the number of general education credits at SDSU. However, no more than 60 credits total can be
transferred from Ridgewater College to SDSU.

Additional requirements:

a. Students transferring from Ridgewater College must have a cumulative GPA of "C" (2.0 on a 4.0 scale). Any course taken at Ridgewater College with a grade below a "C" (2.0 on a 4.0 scale) must be retaken at SDSU if required for the SDSU Agricultural Science Major.

b. 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 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 Spring 2014 semester term at Ridgewater College and SDSU.

VII. Acceptance of Agreement

For South Dakota State University:

[Signature]
Dr. Laurie Nichols
Provost and Vice President for Academic Affairs

[Signature]
Dr. Jack Warner
Executive Director, South Dakota Board of Regents

For Ridgewater College:

[Signature]
Dr. Douglas Allen, President

Date: 2-12-14