

SOUTH DAKOTA BOARD OF REGENTS

Committee on Academic and Student Affairs

AGENDA ITEM: II – F

DATE: October 8-9, 2014

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 and AS degrees which are classified as transferable or terminal degrees. However, the AAS is designated as a non-transferable degree whereby “Credit hours for such degrees may be transferable only when a specific articulation program to program agreement exists.” 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 Electronic Systems Technology at Western Iowa Tech Community College can apply credit toward the BS in Electronics Technology at SDSU (Attachment I).
- Students completing the AAS in Technical Business Management at Western Iowa Tech Community College can apply credit toward the BS in Operations Management (Manufacturing Emphasis) at SDSU (Attachment II).
- Students completing the AAS in Wind Energy Technology at Western Iowa Tech Community College can apply credit toward the BS in Electronics Technolgy at SDSU (Attachment III).

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. AAC reviewed the articulation agreements noted above with the recommendation that they be approved.

RECOMMENDED ACTION OF THE EXECUTIVE DIRECTOR

Approve the articulation agreements between South Dakota State University and Western Iowa Tech Community College.

PROGRAM TO PROGRAM ARTICULATION AGREEMENT

Between
 WESTERN IOWA TECHNICAL COMMUNITY COLLEGE
 and
 SOUTH DAKOTA STATE UNIVERSITY

Agreement with Respect to Applying the
Electronic Systems Technology
Associate of Applied Sciences Degree Program at WITCC
 Toward the
Electronics Technology
Bachelor of Science Degree Program at SDSU

I. Parties

The parties to this agreement are South Dakota State University (SDSU), Brookings SD and Western Iowa Technical Community College (WITCC), Sioux City 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 WITCC students who have completed the A.A.S. degree in Electronic Systems Technology an opportunity to earn a Bachelor of Science degree with a major in Electronics Technology.

III. Academic Program

Graduation Requirements for the BS in Electronics Technology at SDSU

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|--|------------|
| Electronics Technology Major requirements: | 57 |
| General Education (SGR & IGR) credits: | 35 |
| Block Transfer credits from WITCC Electronic Systems Technology: | 28 |
| Total Credits Required: | 120 |

- A. Upon successful completion of the major requirements specified in III.B. below, SDSU will accept 28 course credits from the A.A.S. degree in Electronic Systems Technology for students majoring in Electronics Technology. Students must successfully complete the A.A.S. degree in Electronic Systems Technology from WITCC before transferring to SDSU for the block transfer course credits to be accepted. *General Education coursework is in addition to the 28 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 Technology are outlined below.

Major requirements : 26 credits

1. ET 325/L, Advanced Analog Devices & Lab (3 credits)
2. ET 332/L, Advanced Digital & Lab (3 credits)
3. ET 380/L, Circuit Boards & Design & Lab (3 credits)
4. ET 345/L, Power Systems & Lab (3 credits)
5. ET Technical Elective (2 credits)
6. MNET 367/L, Production Strategy & Lab (3 credits)
7. OM 462, Quality Management (3 credits)
8. OM 469, Project Management (2 credits)
9. ET or OM 471/L*, Capstone Experience & Lab (2 credits) *meets Advanced Writing (AW) requirement
9. 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)

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 WITCC 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 BSET 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 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) (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.
10. Note: IGR #1 First Year Seminar requirement met at WITCC.

Total number of credits at SDSU: 92

Transfer credits from WITCC: 28***Total credits required: 120**Additional requirements:

1. Students transferring from WITCC 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 Western Iowa Technical 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 Spring 2015 semester term at WITCC and SDSU. The agreement applies to students who graduated from WITCC in 2010 and subsequent years.

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 Western Iowa Technical Community College

_____ Date: _____
 President, WITCC

PROGRAM TO PROGRAM ARTICULATION AGREEMENT

Between
WESTERN IOWA TECH COMMUNITY COLLEGE
and
SOUTH DAKOTA STATE UNIVERSITY

Agreement with Respect to Applying the
Technical Business Management
Associate of Applied Sciences Degree Program at WITCC
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 Western Iowa Tech Community College (WITCC), Sioux City 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 South Dakota and the region;
- C. extend and clarify educational opportunities for students; and
- D. provide WITCC students who have completed the A.A.S. degree in Technical Business Management 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

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|---|------------|
| Operations Management requirements: | 63 |
| General Education (SGR & IGR) credits: | 35 |
| <u>Block Transfer credits from WITCC Human Resource Management:</u> | <u>22</u> |
| Total Credits Required: | 120 |

- A. Upon successful completion of the major requirements specified in III.B. below, SDSU will accept 22 technical course credits from the A.A.S. degree in Human Resource Management for students majoring in Operations Management. Students must successfully complete the A.A.S. degree in Human Resource Management from WITCC before transferring to SDSU for the block transfer course credits to be accepted. *General Education coursework is in addition to the 22 technical course credits.* Students must meet all Board of Regents policies and university graduation requirements in order to receive a degree.

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

Major requirements: 41 credits

1. ET 210/L, Introduction to Electronic Systems & Lab (4 credits)
2. ET 451/L, Industrial Controls & PLCs & Lab (3 credits)
3. GE 241, Applied Mechanics (3 credits)
4. GE 425, Occupational Safety & Health (3 credits)
5. MNET 231/L, Manufacturing Processes (3 credits)
6. MNET 367/L, Production Strategy & Lab (3 credits)
7. MNET 460, Manufacturing Cost Analysis (3 credits)
8. OM 425, Production / Operations Management, (3 credits)
9. OM 462, Quality Management (3 credits)
10. OM 463, Supply Chain Management (3 credits)
11. OM 465, Quality Control Applications (3 credits)
12. OM 469, Project Management (2 credits)
13. OM 471/L*, Capstone Experience & Lab (2 credits) *meets Advanced Writing (AW) requirement
14. OM 494, Internship (3 credits)

Required Support Courses: 22 credits

1. ACCT 211, Principles of Accounting II (3 credits)
2. MATH 121/L, Survey of Calculus & Lab (5 credits)
3. MGMT 310, Business Finance (3 credits)
4. MGMT 360, Organization & Management (3 credits)
5. STAT 281, Introduction to Statistics (3 credits)
6. STAT 441, Statistical Methods II (3 credits)
7. 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 WITCC 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 MATH 102, College Algebra (SGR 5) (3 credits)
5. Must include PHYS 111/111L, Introduction to Physics I & Lab (SGR 6) (4 credits)
6. Must include PHYS 113/113L, Introduction to Physics II & Lab (SGR 6) (4 credits) [2 credits count toward OM major]
7. Must include GE 231, Technology, Society & Ethics, (IGR 2) (3 credits)
8. 14 remaining credits must meet System General Education 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: 98

Transfer credits from WITCC: 22 (additional General Education credits can be earned at WITCC)

Total credits required: 120

Additional requirements:

1. Students transferring from WITCC 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 Western Iowa Tech 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 Spring 2015 semester term at WITCC and SDSU. The agreement applies to students who graduated from WITCC in 2010 and subsequent years.

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 Western Iowa Tech Community College

_____ Date: _____
 President, WITCC

PROGRAM TO PROGRAM ARTICULATION AGREEMENT

Between
WESTERN IOWA TECH COMMUNITY COLLEGE
and
SOUTH DAKOTA STATE UNIVERSITY

Agreement with Respect to Applying the
Wind Energy Technology
Associate of Applied Sciences Degree Program at WITCC
Toward the
Electronics Technology
Bachelor of Science Degree Program at SDSU

I. Parties

The parties to this agreement are South Dakota State University (SDSU), Brookings SD and Western Iowa Tech Community College (WITCC), Sioux City 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 WITCC students who have completed the A.A.S. degree in Wind Energy Technician an opportunity to earn a Bachelor of Science degree with a major in Electronics Technology.

III. Academic Program

Graduation Requirements for the BS in Electronics Technology at SDSU

| | |
|--|------------|
| Electronics Technology Major requirements: | 61 |
| General Education (SGR & IGR) credits: | 33 |
| <u>Block Transfer credits from WITCC Wind Energy Technician:</u> | <u>26</u> |
| Total Credits Required: | 120 |

- A. Upon successful completion of the major requirements specified in III.B. below, SDSU will accept 26 course credits from the A.A.S. degree in Wind Energy Technician for students majoring in Electronics Technology. Students must successfully complete the A.A.S. degree in Wind Energy Technician from WITCC before transferring to SDSU for the block transfer course credits to be accepted. *General Education coursework is in addition to the 26 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 Technology are outlined below.

Major requirements: 30 credits

1. ET 232/L, Digital Electronics & Microprocessors & Lab (3 credits)
2. ET 320/L, Analog Electronics & Lab (3 credits)
3. ET 325/L, Advanced Analog Devices & Lab (3 credits)
4. ET 330/L, Microcontrollers & Networks & Lab (3 credits)
5. ET 332/L, Advanced Digital & Lab (3 credits)
6. ET 380/L, Circuit Boards & Design & 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
9. 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)
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General Education(SGR & IGR) Courses: 33 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)
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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) (3 credits)
9. 6 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.
10. IGR #1 First Year Seminar requirement met at WITCC.
11. SGR #3 Social Science/Diversity (3 credits) met at WITCC.

Total number of credits at SDSU: 94

Transfer credits from WITCC: 26*

Total credits required: 120

Additional requirements:

1. Students transferring from WITCC 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.

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