

# **PROGRAM TO PROGRAM ARTICULATION AGREEMENT**

Agreement with Respect to Applying the  
**ENGINEERING/ARCHITECTURAL DRAFTING**  
**Associate of Applied Sciences Degree Program**  
Towards the  
**CIVIL & ENVIRONMENTAL ENGINEERING MAJOR**  
**Bachelor of Science Degree Program**

Between  
**LAKE AREA TECHNICAL INSTITUTE**  
and  
**SOUTH DAKOTA STATE UNIVERSITY**

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## **I. Parties**

The parties to this agreement are Lake Area Technical Institute (LATI) and South Dakota State University (SDSU).

## **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 LATI students who have completed the A.A.S. degree in Engineering/Architectural Drafting an opportunity to earn a Bachelor of Science degree with a major in Civil & Environmental Engineering.

## **III. Academic Program**

- A. Upon successful completion of the major requirements specified in III.B. below, SDSU will accept **11** technical course credits from the A.A.S. degree in Engineering/Architectural Drafting for students majoring in Civil & Environmental Engineering. Students must successfully complete the A.A.S. degree in Engineering/Architectural Drafting from LATI prior to transferring to SDSU for the technical course credits to be accepted. General Education coursework is in addition to the **11** 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 Civil & Environmental Engineering are outlined below.

Major requirements: 49 credits

1. CEE 225, Principles of Environmental Science & Engineering (3 credits)
2. CEE 216/216L, Materials and Lab (3 credits)
3. CEE 311, Structural Materials Lab (1 credit)
4. CEE 340/340L, Engineering Geology and Lab (3 credits)
5. CEE 323/323L, Water Supply and Wastewater Engineering and Lab (3 credits)
6. CEE 331, Fluid Mechanics Lab (1 credit)
7. CEE 353, Structural Theory (3 credits)
8. CEE 362, Highway and Traffic Engineering (3 credits)
9. CEE 346/346L, Geotechnical Engineering and Lab (4 credits)
10. CEE 432, Hydraulic Engineering (3 credits)
11. CEE 455/455L, Steel Design and Lab (3 credits)
12. CEE 456/456L, Concrete Theory, Design and Lab (3 credits)
13. CEE 464, Capstone Design (1 credit)
14. CEE 465, Capstone Design II (2 credits)
15. CEE 482, Engineering Administration (3 credits)
16. CEE 490, Seminar (1 credit)
17. Approved Civil Engineering technical electives (9 credits)

Required Support Courses: 38 credits

1. CHEM 114, General Chemistry II (3 credits) OR CHEM 120, Elementary Organic Chemistry (3 credits)
2. MATH 125, Calculus II (4 credits)
3. MATH 225, Calculus III (4 credits)
4. PHYS 213/213L, University Physics II and Lab (4 credits)
5. MATH 321, Differential Equations (3 credits)
6. MATH 381, Introduction to Probability and Statistics (3 credits)
7. CSC 150, Computer Science (3 credits)
8. EM 214, Statics (3 credits)
9. EM 215, Dynamics (3 credits)
10. EM 321, Mechanics of Materials (3 credits)
11. EM 331, Fluid Mechanics (3 credits)
12. Approved Applied Electives (2 credits)

General Education/Institutional Graduation Requirement Courses: 38-39 credits

1. Must include ENGL 277, Technical Writing in Engineering (3 credits)
2. Must include MATH 123, Calculus I (4 credits)
3. Must include CHEM 112/112L, General Chemistry I and Lab (4 credits)
4. Must include PHYS 211/211L, University Physics I and Lab (4 credits)
5. The remaining 23-24 credits must meet System General Education requirements, Institutional Graduation requirements, Globalization requirement and Writing Intensive requirement and be selected from the approved list of courses specified in BOR policy 2:7. To fulfill the System General Education Requirements, all students must pass the System Information Literacy Examination. Technical institute graduates must take the examination the first semester of enrollment at the university.

Electives: 0 credits

**Total number of credits at SDSU: 125**

**Transfer credits from LATI: 11\***

**Total credits required: 136**

\*Transferable general education courses can be completed at LATI.

Additional requirements:

1. Students transferring from Lake Area Technical Institute must have a cumulative GPA of "C" (2.0 on a 4.0 scale) and no course grade below a "C" (2.0 on a 4.0 scale).
2. In accordance with BOR policy 2:28, students must demonstrate satisfactory performance in writing, mathematics, reading and science reasoning as evidenced by receiving a passing score on all sections of the Collegiate Assessment of Academic Proficiency (CAAP) exam. In accordance with the Regental policy, students must sit for the exam during the semester in which they have completed 48 passed credit hours and must have completed a specified 18 credit hours of general education courses. To meet these requirements, the STI graduates must enroll in and pass the specified 18 credit hours of general education courses during the first two semesters of attendance at SDSU.

#### **IV. Obligations**

Both parties agree to confer with each other on a yearly 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 Lake Area Technical Institute with approval by the South Dakota Board of Education. Modifications may not diminish the entitlements enjoyed by students who have already attended classes delivered under the terms of earlier versions of the agreement, except in rare instances in which retroactive implementation of modifications may be required to comply with accreditation standards or to conform to professional licensure requirements.

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


The parties have entered into the present agreement pursuant to the agreement of December 14, 2004 between the South Dakota Board of Education on behalf of Lake Area Technical Institute and the South Dakota Board of Regents on behalf of Black Hills State University, Dakota State University, Northern State University, the South Dakota School of Mines and Technology, South Dakota State University, and the University of South Dakota. This agreement shall be subject to all terms and conditions stated in the December 14, 2004 agreement.

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


Start Date of Fall 2006 Terms at LATI and SDSU. The agreement applies to students who graduated from LATI in 2000 and subsequent years.

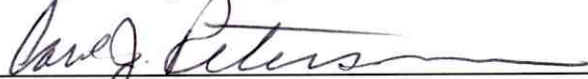
#### **VIII. Acceptance of Agreement**

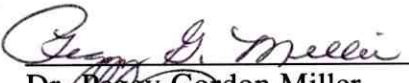
##### **For South Dakota State University:**


  
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Dr. Arden Sigl  
Acting Department Head, Civil & Environmental Engineering


Date: June 23, 2006

 Date: 6-26-2006  
Dr. Lewis Brown  
Dean, College of Engineering

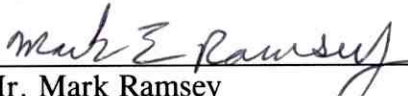
 Date: 6/29/06  
Dr. Carol J. Peterson  
Provost and Vice President for Academic Affairs


 Date: 7/1/06  
Dr. Peggy Gordon Miller  
President, South Dakota State University


 Date: 7-10-06  
Dr. Robert T. Tad Perry  
Executive Director, South Dakota Board of Regents


 Date: 7/18/06  
Mr. Harvey Jewett  
President, South Dakota Board of Regents


**For Lake Area Technical Institute:**

 Date: 8-1-06  
Mr. Mark Ramsey  
Program Chair, Lake Area Technical Institute

 President Date: 7/31/06  
Mr. Gary Williams  
President, Lake Area Technical Institute

 Date: 8-16-06  
Dr. Bob Mayer  
Superintendent, Watertown School District

 Date: 9/13/06  
Dr. Rick Melmer  
Secretary, South Dakota Department of Education

 Date: 9-18-06  
Dr. Kelly Duncan-Clark  
President, South Dakota Board of Education