

PROGRAM TO PROGRAM ARTICULATION AGREEMENT

Agreement with Respect to Applying the
**SUPERVISORY CONTROL & DATA ACQUISITION (SCADA)
ENGINEERING TECHNOLOGY**
Associate of Applied Sciences Degree Program
Towards the
ELECTRONICS ENGINEERING TECHNOLOGY MAJOR
Bachelor of Science Degree Program

Between
MITCHELL TECHNICAL INSTITUTE
and
SOUTH DAKOTA STATE UNIVERSITY

I. Parties

The parties to this agreement are Mitchell Technical Institute (MTI) 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 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 MTI students who have completed the A.A.S. degree in SCADA Engineering Technology an opportunity to earn a Bachelor of Science degree with a major in Electronics Engineering Technology.

III. Academic Program

- A. Upon successful completion of the major requirements specified in III.B below. SDSU will accept **30** technical course credits from the A.A.S. degree in SCADA Engineering Technology for students majoring in Electronics Engineering Technology. Students must successfully complete the A.A.S. degree in SCADA Engineering Technology from MTI prior to transferring to SDSU for the technical course credits to be accepted. General Education coursework is in addition to the 30 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 Electronics Engineering Technology are outlined below.

Major requirements (including Emphasis Area selected from either *Computer Networking Emphasis OR Manufacturing and Industrial Automation Emphasis*):
45-47 credits

- MNET 260, Principles of Production and Operations Mgt. (3 credits)
- EET 232/232L, Advanced Digital and Lab (4 credits)
- EET 320/320L, Analog Devices and Lab (4 credits)
- EET 330/330L, Microprocessors and Lab (4 credits)
- EET 370/370L, Computer Systems and Lab (4 credits)
- EET 440/440L, Prototyping Techniques and Lab (4 credits)
- EET 426-426L, Communication Systems and Lab (4 credits)
- EET 470/470L, Project Management and Lab (2 credits)
- EET 471/471L, Capstone Experience and Lab (1 credit)
- MNET 462, Quality Management (3 credits)
EET 470/470L and EET 471/471L meet Advanced Writing requirement

Select one pair of courses: 6-8 credits

1. EET 472/472L, Networking I and Lab (4 credits)
 2. EET 474/474L, Networking II and Lab (4 credits)
- OR
3. EET 451/451L, Industrial Electronics and Lab (3 credits)
 4. EET 453/453L, Mfg. Automation and Lab (3 credits)
- OR
5. BADM 360, Organization and Management (3 credits)
 6. BADM 334, Small Business Management (3 credits)

Choose one Emphasis Area: 6 credits

Computer Networking Emphasis:

1. CSC 325, Management Information Systems (3 credits)
2. CSC 474, Computer Networks (3 credits)

OR

Manufacturing and Industrial Automation Emphasis:

1. MNET 334/334L, CAM/CNC and Lab (3 credits)
2. MNET 350/350L, Fluid Power Technology and Lab (3 credits)

Required Support Courses: 10 credits

1. GE 121, Engineering Design Graphics (1 credit)
2. GE 123, Computer Aided Drawing (1 credit)
3. MATH 121/121L, Survey of Calculus and Lab (5 credits)
4. STAT 281, Statistics (3 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 115, Precalculus (5 credits)
3. Must include PHYS 111/111L, Introduction to Physics I and Lab (4 credits)
4. Must include PHYS 113/113L, Introduction to Physics II and Lab (4 credits)
5. Must include ECON 202, Principles of Macroeconomics (3 credits)- meets globalization requirement

6. 19-20 remaining 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. MTI graduates must take the examination the semester after which they complete the Regental System General Education Requirements in written and oral communication but no later than the third semester of enrollment at the university.

Electives: 2-5 credits

Total number of credits at SDSU: 98

Transfer credits from MTI: 30*

Total credits required: 128

*Transferable general education courses can be completed at MTI.

Additional requirements:

1. Students transferring from Mitchell 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 MTI 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 Mitchell 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 January 25, 2005, between the Mitchell Area Schools Board of Education on behalf of Mitchell 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 January 25, 2005 agreement.

VII. Effective Date of Agreement


Start Date of Fall 2005 Terms at MTI and SDSU. The agreement applies to students who graduated from MTI in 2000 and subsequent years.

VIII. Acceptance of Agreement

For South Dakota State University:

 Date: 27 Sept 2005

Dr. Teresa Hall
Department Head, Engineering Technology and Management

 Date: 9-28-2005

Dr. Lewis Brown
Dean, College of Engineering

 Date: 9/28/05

Dr. Carol Peterson
Provost and Vice President for Academic Affairs

 Date: 9/23/05

Dr. Peggy Gordon Miller
President, South Dakota State University

 Date: 10-10-05

Dr. Robert F. Tad Perry
Executive Director, South Dakota Board of Regents

 Date: 10/17/05

Mr. Harvey Jewett
President, South Dakota Board of Regents


For Mitchell Technical Institute:



Date: 10-26-05

Ms. Vicki Wiese

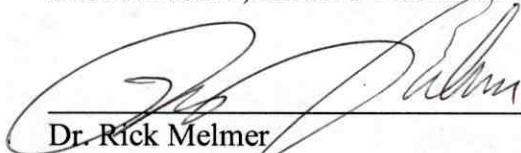
Vice President of Academic Affairs/CAO, Mitchell Technical Institute



Date: 10-26-05

Mr. Chris Paustian

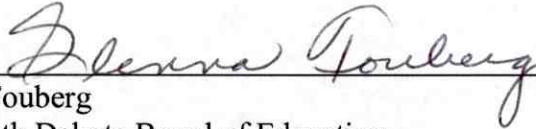
President/CEO, Mitchell Technical Institute



Date: 11/2/05

Dr. Rick Melmer

Secretary, South Dakota Department of Education



Date: 11/16/05

Mrs. Glenna Fouberg

President, South Dakota Board of Education