

PROGRAM TO PROGRAM ARTICULATION AGREEMENT
Agreement with Respect to Applying the
System Administration and Technical Support Concentration
Associate of Applied Science (A.A.S.) Degree
Towards a
Bachelor of Science in Network and Security Administration
Between
NORTHEAST COMMUNITY COLLEGE
in Norfolk, Nebraska
and
DAKOTA STATE UNIVERSITY
in Madison, South Dakota

I. Parties.

The parties to this agreement are Northeast Community College (NECC) and Dakota State University (DSU).

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 education opportunities for students from the region.
- C. Extend and clarify educational opportunities for students. Provide NECC students who have completed the System Administration and Technical Support Concentration Associate of Applied Science (A.A.S.) Degree (Attachment A) an opportunity to earn a Bachelor of Science in Network & Security Administration degree (Attachment B).

III. Academic Program.

- A. Upon successful completion of the major requirements specified in B. below, DSU will accept 65 course credits into the Network and Security Administration B.S. from the NECC System Administration and Technical Support Concentration Associate of Applied Science (A.A.S.) Degree. Students must meet all South Dakota Board of Regents (SDBoR) policies and university graduation requirements to receive a degree. The DSU Bachelor of Science degree in Network and Security Administration requires 120 credits.
- B. Requirements to be completed at DSU to earn a Bachelor of Science in Network & Security Administration degree are outlined below.

Degree residency requirements must be met including the following (see SDBoR Policy 2.6.1).

- 1. A minimum of 30 credit hours must be earned at DSU.
- 2. A minimum of 15 of the last 30 credit hours must be earned at DSU.

Additional requirements. Students must complete DSU’s undergraduate admission process.

IV. Obligations

Both parties agree to confer with each other on a yearly basis regarding changes in curricula involved in this articulation agreement.

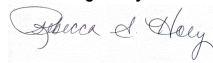
V. Modification

This agreement may be modified by the South Dakota Board of Regents and Northeast Community College with approval by Dakota State University. 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: Start date of the Fall 2024 term at Northeast Community College and Dakota State University. The agreement applies to students who graduated from Northeast Community College in 2024 and subsequent years.

VII. Acceptance of Agreement:


For Dakota State University:

DocuSigned by:

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Date: 06/25/2024

Dr. Rebecca Hoey
Provost and Senior Vice President for Academic & Student Affairs

For Northeast Community College:



Date: 6/20/24

Makala Maple
Registrar

Attachment A: Northeast Community College, Norfolk, Nebraska

System Administration and Technical Services Support Concentration

This degree concentration combines the information technology core and general education requirements plus the courses from the System Administration certificate option and the technical services support option. A student completing this degree will have the necessary skills to be a system administrator and provide necessary technical support within an organization.

**For a student to continue in the System Administration program they must meet the requirement of a cumulative GPA of 3.0 or higher at the completion of the courses necessary for the General IT Certificate. Please refer to the System Administration Program Grade requirement.*

**Required Program of Study for
Associate of Applied Science Degree (2 years)**

FRESHMAN YEAR

First Semester

Course Credits

BSAD 2050 Business Communications*	3
INFO 1020 Intro to Information Technology	3
INFO 1100 Microcomputer Applications*	3
INFO 1170 Operating Systems I	3
INFO 1420 Introduction to Programming in C#	4
	<u>16</u>

Second Semester

Course Credits

INFO 1725 HTML, CSS, and JavaScript	3
INFO 2330 Database Concepts, Design and Application	4
INFO 1850 Operation Systems II	3
INFO 1600 PC System Maintenance & Repair	3
INFO 1610 PC System Maintenance & Repair Lab	1
MATH 1100 Topics and Ideas in Mathematics*	3
	<u>17</u>

Summer

Course Credits

INFO 2820 Internship**	3
<i>or INFO 2020 in second semester of Sophomore year</i>	

SOPHOMORE YEAR

First Semester

Course Credits

ACCT 1100 Survey Accounting	3
BSAD 1000 Human Relations and Ethics* or PSYC 1810 Introduction to Psychology*	3
INFO 2040 Project Management	3
INFO 2650 Network Servers	3
INFO 2660 Network + _	3
	<u>15</u>

Second Semester

Course Credits

ECON 2110 Principles of Macroeconomics*	3
INFO 1800 Microcomputer Applications II	3
INFO 1750 Info Tech Infrastructure Management	3
INFO 2020 Systems Analysis and Design**	5
INFO 2610 Computer Support Technology	3
INFO 2770 System Security and Compliance	3
	<u>15-20</u>

Total Credit Hours

66-68

*See general education requirement.

**Students are encouraged to enroll in summer internships (3.0 GPA and permission of instructors required). If student does not meet internship requirements, they must enroll in INFO 2020 System Analysis and Design in the final semester.

Attachment B: Network and Security Administration BS Course Mapping

DSU Course Number & Title	Credits	NECC Course Number & Title	Credits
CSC 105 Introduction to Computers	3	INFO 1100 Microcomputer Applications	3
CSC 134 Introduction to Cyber Operations	3		
CSC 150 Computer Science I	3	INFO 1420 Introduction to Programming in C#	4
CSC 163 Hardware, Virtualization & Data Communication	3	INFO 1600 PC System Maintenance and Repair AND INFO 1610 PC System Maintenance and Repair Lab	4
CSC 234 Software Security	3		
CSC 250 Computer Science II	3		
CSC 285 Networking I	3	INFO 2660 Network +	3
CSC 321 Cyber Law and Policy	3	INFO 2770 System Security and Compliance AND INFO 1750 Info Tech Infrastructure Management	6
CSC 334 Web Development	3	INFO 1725 HTML, CSS, and JavaScript	3
CSC 385 Networking II	3		
CSC 387 Routing and Switching	5		
CSC 388 Computer Forensics Fundamentals	3		
CSC 407 Advanced Routing and Switching	3		
CSC 409 Operating Environments	3	INFO 1170 Operating Systems I AND INFO 1850 Operation Systems II	6
CSC 430 Windows Administration	3	INFO 2650 Network Servers	3
CSC 431 UNIX/Linux Administration	3		
CSC 436 Offensive Network Security	3		
CSC 437 Survey of Enterprise Systems	3		
CSC 438 Defensive Network Security	3		
CSC 439 Threat Hunting and Incident Response	3		
CSC 443 Scripting for Network Administration	3		
CIS 484 Database Management Systems	3	INFO 2330 Database Concepts, Design and Application	4
CSC 494 Internship	3	INFO 2820 Internship OR INFO 2020	3-5

or		Systems Analysis and Design	
CSC 498 Undergraduate Research/Scholarship			
MATH 281 Introduction to Statistics	3		
Electives	16	INFO 1020 Introduction to Information Technology	3
		ACCT 1100 Survey Accounting	3
		INFO 2040 Project Management	3
		INFO 2610 Computer Support Technology	3
		BSAD 2050 Business Communications	3
ENGL 101 Composition I	3		
ENGL 201 Composition II	3		
Oral Communication	3		
Social Sciences	3		
Social Sciences	3	ECON 2110 Principles of Macroeconomics	3
Arts and Humanities	3		
Arts and Humanities	3		
Mathematics	3	MATH 1100	3
Natural Sciences	3		
Natural Sciences	3		
Total DSU Credits	120	Total NECC Transfer Credits	62

Notes:

- Student gets 3 credits of DSU Social Science credit if student takes PSYCH 1810. If student takes BSAD 1000 Human Relations, then DSU Gen Ed credit not awarded for BS Net Sec.
- MATH 1100 Topics and Ideas in Mathematics is used for Math 103 Mathematic Reasoning to allow placement into Math 281 Introduction to Statistics.

DSU Courses for BS in NetSec Major remaining after NECC AAS Transfer

CSC 134	Introduction to Cyber Operations	3
MATH 281	Introduction to Statistics	3
CSC 234	Software Security	3
CSC 250	Computer Science II	3
CSC 385	Networking II	3
CSC 387	Routing and Switching	5
CSC 388	Computer Forensics Fundamentals	3
CSC 407	Advanced Routing and Switching	3
CSC 431	UNIX/Linux Administration	3
CSC 436	Offensive Network Security	3
CSC 437	Survey of Enterprise Systems	3
CSC 438	Defensive Network Security	3
CSC 439	Threat Hunting and Incident Response	3
CSC 443	Scripting for Network Administration	3
Total Major Specific Credits Needed After AAS Transfer		44

General Education Credits		
	Written Communication	6
	Oral Communication	3
	Social Sciences	3
	Arts and Humanities	6
	Natural Sciences	6
Total GE Credits Needed After AAS Transfer		24

	NECC Credits Used	62
	DSU Credits after NECC AAS Degree	68
Total Credits		130