SOUTH DAKOTA BOARD OF REGENTS

Academic and Student Affairs <u>Consent</u>

AGENDA ITEM: 5 - D

DATE: July 31 – August 1, 2024

SUBJECT

Articulation Agreements – DSU

CONTROLLING STATUTE, RULE, OR POLICY

 $\underline{BOR\ Policy\ 2.2.2.1}-Seamless\ Transfer\ of\ Credit$

<u>BOR Policy 2.2.2.3</u> – External (Non-Regental System) Accredited University/College Transfer of Credit

BACKGROUND / DISCUSSION

BOR Policy 2.2.2.1 – Seamless Transfer of Credit establishes requirements for institutions seeking to develop program level agreements for interested transfer students. The policy further establishes the distinction between AA, AS, and AAS degrees which are classified as transferable, terminal, or non-transferable degrees (respectively). However, the AAS is "transferable when a specific degree articulation agreement exists between a given A.A.S. degree and a specific Baccalaureate degree." 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.

IMPACT AND RECOMMENDATION

To comply with BOR Policy 2.2.2.1, Dakota State University requests approval for the following articulation agreements:

- Students who have completed the AAS degree at in System Administration and Technical Support Concentration at Northeast Community College may apply up to 62 credits toward the BS program in Network and Security Administration at DSU.
- Students who have completed the AAS degree at in Computer Sciences with an Information Technology Specialty at Western Dakota Technical College may apply

(Continued)

DRAFT MOTION 20240731 5-D:

I move to approve Dakota State University to finalize and execute the articulation agreements with Northeast Community College and Western Dakota Technical College, in substantially similar form to that set forth in Attachments I & II.

Articulation Agreements – DSU July 31 – August 1, 2024 Page 2 of 2

up to 66 credits toward the BS programs in Artificial Intelligence, Computer Science, Cyber Operations, or Network and Security Administration at DSU.

Board staff recommends approval.

ATTACHMENTS

Attachment I – DSU Articulation Agreement – Northeast Community College Attachment II – DSU Articulation Agreement – Western Dakota Technical College

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: House of Holy FRETTRATARTATION	06/25/2024 Date:
Dr. Rebecca Hoey Provost and Senior Vice President for	Academic & Student Affairs
For Northeast Community College:	
Malala Maple	Date: 6/20/211
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	SOPHOMORE YEAR
First Semester	First Semester
Course Credits	Course Credits
BSAD 2050 Business Communications* 3	ACCT 1100 Survey Accounting3
INFO 1020 Intro to Information Technology 3	BSAD 1000 Human Relations and Ethics* or
INFO 1100 Microcomputer Applications* 3	PSYC 1810 Introduction to Psychology* 3
INFO 1170 Operating Systems I	INFO 2040 Project Management3
INFO 1420 Introduction to Programming in C# 4	INFO 2650 Network Servers3
16	INFO 2660 Network + 3
Second Semester	15
Course Credits	Second Semester
INFO 1725 HTML, CSS, and JavaScript3	Course Credits
INFO 2330 Database Concepts, Design and	ECON 2110 Principles of Macroeconomics*3
Application4	INFO 1800 Microcomputer Applications II
INFO 1850 Operation Systems II3	INFO 1750 Info Tech Infrastructure Management 3
INFO 1600 PC System Maintenance & Repair 3	INFO 2020 Systems Analysis and Design**5
INFO 1610 PC System Maintenance & Repair Lab1	INFO 2610 Computer Support Technology3
MATH 1100 Topics and Ideas in Mathematics* 3	INFO 2770 System Security and Compliance3
17	15-20
Summer	
Course Credits	Total Credit Hours 66-68
INFO 2820 Internship** 3	
or INFO 2020 in second semester of Sophomore year	

^{*}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 CSC 498 Undergraduate		Systems Analysis and Design	
Research/Scholarship			
MATH 281 Introduction to	3		
Statistics			
Electives	16	INFO 1020 Introduction to Information	3
		Technology	
		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	CSC 431 UNIX/Linux Administration	
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 S	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

PROGRAM TO PROGRAM ARTICULATION AGREEMENT

Agreement with Respect to Applying the

Computer Science - Information Technology Specialty **Associate of Applied Sciences**

Towards a

Bachelor of Science in Artificial Intelligence, Bachelor of Science in Computer Science, Bachelor of Science in Cyber Operations,

or

Bachelor of Science in Network and Security Administration Between

WESTERN DAKOTA TECHNICAL COLLEGE and DAKOTA STATE UNIVERSITY

I. Parties.

The parties to this agreement are Western Dakota Technical College (WDTC) 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 South Dakota and the region.
- C. Extend and clarify educational opportunities for students.
- D. Provide WDTC students who have completed the A.A.S degree in Computer Science - Information Technology Specialist (Attachment A) an opportunity to earn a Bachelor of Science in Artificial Intelligence degree (Attachment B), Bachelor of Science in Computer Science degree (Attachment C), Bachelor of Science in Cyber Operations degree (Attachment D), or a Bachelor of Science in Network & Security Administration degree (Attachment E).

III. Academic Program.

A. Upon successful completion of the major requirements specified in B. below, DSU will accept 26 course credits into the Artificial Intelligence B.S., 35 course credits into the Computer Science B.S., 45 course credits into the Cyber Operations B.S., and 55 course credits into the Network and Security Administration B.S. from the WDTC Program: Computer Science - Information Technology Specialist, A.A.S. Students must successfully complete the A.A.S. degree prior to transferring to DSU for the course credits to be accepted. Students must meet all South Dakota Board of Regents (SDBoR) policies and university graduation requirements to receive a degree. The DSU Bachelor of Science degrees in Artificial Intelligence, Computer Science, Cyber Operations, and Network and Security Administration each require 120 credits.

B. Requirements to be completed at DSU to earn a Bachelor of Science in Artificial Intelligence, Bachelor of Science in Computer Science, Bachelor of Science in Cyber Operations, or a Bachelor of Science in Network & Security Administration degree are outlined below.

Degree residency requirements must be met including the following (see SDBoR Policy 2:33).

- 1. A minimum of 30 credit hours must be earned at DSU.
- 2. A minimum of 15 of the last credit hours must be earned at DSU.
- 3. Up to 66 credit hours may be transferred to DSU.

Additional requirements.

- 1. Students must complete DSU's online undergraduate admission process.
- 2. Students must successfully complete DSU's B.S. Admission interview process outlined in the undergraduate catalog.
- 3. Students must take DSU's exit exam prior to graduation, as required of all graduating students graduating with a B.S. degree.

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 Western Dakota Technical 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 Western Dakota Technical College and Dakota State University. The agreement applies to students who graduated from Western Dakota Technical College in 2024 and subsequent years.

VII. Acceptance of Agreement:

For Dakota State University:

DocuSigned by: Special of Hary F8E7B870873741C	_Date: _	06/12/2024
Dr. Rebecca Hoey Provost and VP of Academic Affairs		
For Western Dakota Technical College:		
Com Bolman, Ed.D.	_Date:	6-7-202

Dr. Ann Bolman President

Course Title Credits

Attachment A: Western Dakota Technical College

Computer Science - Information Technology Specialist Course Listing 2023-24 Associate of Applied Science (A.A.S.) Degree

Associate of Applied Science, 69 Credit Hours, 24-Month Program

The Computer Science - Information Technology Specialist program strikes a balance between theory and application. Students will learn about real-life networking and cyber security environments, making them immediately productive upon graduation and prepared to take on a variety of information technology (IT) roles. The first year builds a solid foundation of basic hands-on computer skills and networking concepts. The second-year challenges students to learn to adapt and react to the changing world of computers. Deeper networking concepts are introduced, including cyber security, ethical hacking, complex networks, and programming skills. The emphasis of coursework will be based on preparing students for industry certification testing. Students also will be prepared to continue learning and advancing within the field, allowing them to work within an organization to apply networking, and cyber security to business strategy, tactics, and goals. A typical job description for an information technology specialist would generally include working in an office environment. The job is often performed alone, and the IT Specialist must possess strong troubleshooting and technical skills, including strong math skills. Conversely, the IT Specialist must also work with users who are not comfortable with the system or who are experiencing difficulties, thus the requirement for strong communications skills. Configuring a network can require long hours of work in a short period of time. Maintaining the network can alternate between routine tasks to install, maintain, and update programs, as well as the hectic work of troubleshooting and fixing network problems. If a network crashes, the Information Technology Specialist must work quickly and purposefully to solve problems and restore the network operation. In addition, the task of updating and maintaining network services can require late hours and work on an irregular schedule. The IT worker must also be prepared to maintain related technology within an organization, including audio-visual equipment, televisions, phones, and cabling infrastructure. Physical duties may include climbing and working using ladders, installing cabling, moving computers and related equipment, and installing equipment.

Course No.	Course Title Credit
General Education Requirements	
CSC 105 MICROCOMPUTER SOFTWARE APPLICATIONS I	3
ENGL 101 COMPOSITION I*	3
ENGL 108 WORKPLACE COMMUNICATIONS II	3
ECON 202 PRINCIPLES OF MACROECONOMICS online or	3
SOC 100 INTRODUCTION TO SOCIOLOGY	
MATH 114 COLLEGE ALGEBRA**	3
PSYC 101 GENERAL PSYCHOLOGY or	3
PSYC 103 HUMAN RELATIONS IN THE WORKPLACE	
Total	18
Technical Requirements	
CIS 122 INFORMATION TECHNOLOGY HARDWARE/SOFTWAR	RE 6
CIS 129 WINDOWS OPERATING SYSTEMS	3
CIS 131 NETWORKING TECHNOLOGIES I	3
CID 131 IVEL WORKER OF TECHNOLOGIES I	

	Total	51
CIS 299 INTERNSHIP		3
CIS 235 NETWORK SECURITY II		3
CIS 225 DATABASES 3 CIS 230 COMPUTER FORENSICS		3
CIS 220 NETWORK SECURITY I		3
CIS 219 ADVANCED SERVER TECHNOLOGIES		3
CIS 216 INTRODUCTION TO PROGRAMMING		3
CIS 215 NETWORK DESIGN AND VIRTUALIZATION		3
CIS 213 NETWORKING USING WINDOWS SERVER		3
CIS 201 LINUX TECHNOLOGIES		3
CIS 134 NETWORKING TECHNOLOGIES IV		3
CIS 133 NETWORKING TECHNOLOGIES III		3
CIS 132 NETWORKING TECHNOLOGIES II		3

^{*}Prerequisite: Acceptable ACCUPLACER score or Basic Writing.

**Prerequisite: Acceptable ACCUPLACER score or Intermediate Algebra.

Attachment B: Artificial Intelligence BS Course Mapping

DSU 2023-24 Catalog

WDTC 2023-2024 Catalog

DSU 2023-24 Catalog		/DTC 2023-2024 Catalog	
WDTC Program: Computer Science -	Infor	mation Technology Specialist, A.A.S.	
DSU Program: Artificial Intelligence,	B.S.		
WDTC credits	26	DSU Credits	94
General Education: 30 credits			
GOAL 1: Written Communication (6 Credits)			
ENGL 101 - Composition I	3		
		ENGL 201 - Composition II	3
GOAL 2: Oral Communication (3 Credits)			
		CMST 101 - Foundations of Communication	3
GOAL 3: Social Sciences (6 Credits)			
ECON 202 - Principles of Macroeconomics or SOC 100 Introduction of Sociology	3		
PSYC 101 - General Psychology (if complete)	3		
GOAL 4: Arts and Humanities (6 Credits)			
		A&H	3
		A&H	3
GOAL 5: Mathematics (3 Credits)			
Math 114 College Algebra	3		
GOAL 6: Natural Sciences (6 Credits)			
		NatSci	3
		NatSci	3
Artificial Intelligence, B.S.			
		CIS 368 - Predictive Analytics	3
		CIS 372 - Programming for Analytics	3

	1		
CSC 105 - Introduction to Computers	3		
CSC 150 - Computer Science I	3		
		CSC 230, 232, 292	3
		CSC 247 - Introduction to Artificial Intelligence	3
		CSC 250 - Computer Science II	3
		CSC 300 - Data Structures	3
		CSC 386 - Applications of Deep Learning	3
		CSC 402 - Mathematical Foundations of Artificial Intelligence	3
		CSC 447 - Artificial Intelligence	3
		CSC 478 - Artificial Intelligence Tools and Frameworks	6
		CSC 479 - Applied Artificial Intelligence	6
		CSC 482 - Algorithms and Optimization	3
		Minor	18
		MATH 123 - Calculus I	4
		MATH 201 - Introduction to Discrete Mathematics	3
		MATH 281 - Introduction to Statistics	3
		MATH 315 - Linear Algebra	3
		MATH 316 - Discrete Mathematics	3
Electives (8 required)	8		

Attachment C: Computer Science BS Course Mapping

WDTC 2023-2024 Catalog DSU 2023-24 Catalog

DSU 2023-24 Catalog		tion Tashnalagy Specialist A A S	
WDTC Program: Computer Science - In	torma	ition Technology Specialist, A.A.S.	
DSU Program: Computer Science, B.S.			
WDTC credits	35	DSU Credits	85
General Education			_
GOAL 1: Written Communication (6 Credits)			
ENGL 101 - Composition I	3		
		ENGL 201 - Composition II	3
GOAL 2: Oral Communication (3 Credits)			
		CMST 101 - Foundations of Communication	3
GOAL 3: Social Sciences (6 Credits)			_
ECON 202 - Principles of Macroeconomics or SOC 100 Introduction of Sociology	3		
PSYC 101 - General Psychology (if complete)	3		
GOAL 4: Arts and Humanities (6 Credits)			
		A&H	3
		A&H	3
GOAL 5: Mathematics (3 Credits)			
Math 114 College Algebra	3		
GOAL 6: Natural Sciences (6 Credits)			
		NatSci	3
		NatSci	3
Computer Science, B.S.			
CSC 105 - Introduction to Computers	3		
CSC 150 - Computer Science I	3		
		CSC 234 - Software Security	3

		CSC 250 - Computer Science II	3
		CSC 260 - Object Oriented Design	3
CSC 285 - Networking I	3		
		CSC 300 - Data Structures	3
		CSC 310 - Advanced Data Structures	3
		CSC 314 - Assembly Language	3
		CSC 321 - Cyber Law and Policy	3
		CSC 404 - Foundation of Computation	3
		CSC 410 - Parallel Computing	3
		CSC 456 - Operating Systems	3
		CSC 461 - Programming Languages	3
		CSC 470 - Software Engineering	3
		CSC 482 - Algorithms and Optimization	3
		CIS/CSC 300-400 Level	9
		MATH 123 - Calculus I	4
		MATH 201 - Introduction to Discrete Mathematics	3
		MATH 281 - Introduction to Statistics	3
		MATH 316 - Discrete Mathematics	3
		MATH Electives* 6 credits	6
Electives (14 required)	14		

Attachment D: Cyber Operations BS Course Mapping

DSU 2023-24 Catalog

WDTC 2023-2024 Catalog

WDTC Program: Computer Science – Info	rmati	on Technology Specialist, A.A.S.	
DSU Program: Cyber Operations, B.S.		<u> </u>	
WDTC credits	45	DSU Credits	75
General Education			
GOAL 1: Written Communication (6 Credits)			
ENGL 101 - Composition I	3		
		ENGL 201 - Composition II	3
GOAL 2: Oral Communication (3 Credits)	-		
		CMST 101 - Foundations of Communication	3
GOAL 3: Social Sciences (6 Credits)			
ECON 202 - Principles of Macroeconomics or SOC 100 Introduction of Sociology	3		
PSYC 101 - General Psychology (if complete)	3		
GOAL 4: Arts and Humanities (6 Credits)			
		A&H	3
		A&H	3
GOAL 5: Mathematics (3 Credits)			
Math 114 College Algebra	3		
GOAL 6: Natural Sciences (6 Credits)			
		NatSci	3
		NatSci	3
Cyber Operations, B.S.			
CSC 105 - Introduction to Computers	3		
CSC 134 - Introduction to Cyber	3		
CSC 150 - Computer Science I	3		

CSC 163 - Hardware, Virtualization, and Data Communication	3		
		CSC 234 - Software Security	3
		CSC 250 - Computer Science II	3
CSC 285 - Networking I	3		
		CSC 300 - Data Structures	3
		CSC 314 - Assembly Language	3
		CSC 321 - Cyber Law and Policy	3
CSC 328 - Operating Environments	3		
		CSC 334 - Web Development	3
CSC 385 - Networking II	3		
		CSC 404 - Foundation of Computation	3
		CSC 420 - Cellular and Mobile Communications	3
		CSC 428 - Reverse Engineering	3
		CSC 432 - Malware Analysis	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 456 - Operating Systems	3
		CIS/CSC 300-400 Level (or math 123 or higher)	9
		MATH 201 - Introduction to Discrete Mathematics	3
Electives (12 required)	12		

ATTACHMENT II 19

Attachment E: Network and Security Administration BS Course Mapping

DSU 2023-24 Catalog

WDTC 2023-2024 Catalog

WDTC Program: Computer Science – Inform	nation	Technology Specialist, A.A.S.	
DSU Program: Network and Security Admin	istrat	ion, B.S.	
WDTC credits	55	DSU Credits	65
General Education			
GOAL 1: Written Communication (6 Credits)			
ENGL 101 - Composition I	3		
		ENGL 201 - Composition II	3
GOAL 2: Oral Communication (3 Credits)			
		CMST 101 - Foundations of Communication	3
GOAL 3: Social Sciences (6 Credits)			
ECON 202 - Principles of Macroeconomics or SOC 100 Introduction of Sociology	3		
PSYC 101 - General Psychology (if complete)	3		
GOAL 4: Arts and Humanities (6 Credits)			
		A&H	3
		A&H	3
GOAL 5: Mathematics (3 Credits)			
Math 114 College Algebra	3		
GOAL 6: Natural Sciences (6 Credits)			
		NatSci	3
		NatSci	3
Network and Security Administration, B.S.			
CIS 484 - Database Management Systems	3		
CSC 105 - Introduction to Computers	3		
CSC 134 - Introduction to Cyber	3		
CSC 150 - Computer Science I	3		

CSC 163 - Hardware, Virtualization, and Data Communication	3		
		CSC 234 - Software Security	3
		CSC 250 - Computer Science II	3
CSC 285 - Networking I	3		
		CSC 321 - Cyber Law and Policy	3
CSC 328 - Operating Environments	3		
		CSC 334 - Web Development	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 430 - Windows Administration	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
		CSC 494 - Internship	3
		MATH 281 - Introduction to Statistics	3
Electives (16 required)	16		