

## North Dakota Statewide Articulation Agreement Dakota Digital Academy

**Purpose:** This agreement has been drafted by and is endorsed by the members of the Dakota Digital Academy. The following credits/courses are deemed transferrable among the institutions listed. The listed institutions have agreed to transfer the course(s) to meet the requirements of the program listed with the corresponding courses. It is intended to facilitate student transfer and Dakota Digital Academy program articulation among the following institutions:

### NDUS Colleges and Universities

Bismarck State College	Dakota College at Bottineau
Dickinson State University	Lake Region State College
Mayville State University	Minot State University
North Dakota State College of Science	North Dakota State University
University of North Dakota	Valley City State University
Williston State College	

### Guidelines:

1. Described here are competency requirements for undergraduate certificate programs in Cybersecurity and in Software Development. The Cybersecurity program has two options.
2. The intent is that the participating institutions will design, develop and gain approval through their respective campus process for the specific certificate program(s) in which they have an interest. Describing each program in terms of competencies achieves two major objectives:
  - a. ensuring that students who complete a program will have gained training and skills that are relevant and responsive in terms of the needs of employers, whether in private business and industry or government, and
  - b. provides the participating institutions flexibility in how they structure their courses and curricular requirements to map to their respective competencies associated with each certificate.
3. In keeping with the founding principles of the Dakota Digital Academy (DDA) in facilitating and coordinating programs across the state, it is anticipated that this agreement will be reviewed on a recurring basis.

### Undergraduate Certificate in Cybersecurity (Information Systems Management Option), 16-18 credits

Competencies	Example related courses (*)
<b>Information Security Fundamentals.</b> Business and management issues in security, including risk management, planning, fundamentals of intrusion detection and prevention, human error, legal and ethical issues, access control and firewalls, software attacks, cryptography, credentialing and certifications	<b>CIS 147 (**)</b> , Principles of Information Security, BSC, WSC, DSU, DCB, LRSC, VCSU, MSU, NDSU, UND; <b>CIS 141</b> , Introduction to Cybersecurity, LRSC, WSC, NDSCS; <b>CIS 142 (**)</b> , Cybersecurity Operations, NDSCS, LRSC; <b>CSCI 290 (**)</b> , Cybersecurity and Information Assurance, UND.
<b>Programming and Problem Solving.</b> Fundamentals of coding in a higher-level language such as Java, C++, C#, JavaScript, Python; foundational problem solving techniques.	<b>SE 110 (**)</b> , Discovering Computing, VCSU; <b>CSCI 124</b> , Beginning C++/Visual C++, BSC, VCSU, WSC; <b>CSCI 127</b> ; Introduction to Programming in Java, VCSU, WSC; <b>CSCI 130</b> , Introduction to Scientific Programming, UND; <b>CSCI 159</b> , Computer Science Problem Solving, NDSU; <b>CSCI 160/161</b> , Computer Science I and II, NDSU, UND, BSC, LRSC, NDSCS, VCSU, DSU, MSU, WSC, MiSU; CIS 171, Fundamentals of Python Coding, WSC; <b>CSCI 174</b> , Intermediate

	C++, WSC, NDSCS; <b>CIS 185</b> , Introduction to Programming, BSC, DSU, NDSCS, MSU, VCSU, NDSU, UND; <b>CSCI 227/228</b> , Computing Fundamentals I and II, NDSU; <b>CIS 257</b> , JavaScript with jQuery, BSC, DSC, MSU, NDSCS, VCSU, NDSU, UND.
<b>Networks, Network Security, Information Technology Practices.</b> Protocols, traffic analysis, scanning to detect network vulnerabilities, wireless technologies, packet level tracing and analytics, hands-on lab activities.	<b>CIS 164(**)/165</b> : Fundamentals of Networking I and II, BSC, DCB, DCU, WSC, VCSU, NDSCS, LRSC, MSU, MiSU, NDSCS, NDSU; <b>CIS 255</b> , Computer and Network Security, BSC, LRSC, NDSU; CIS 268, Intermediate Networking, BSC; <b>CIS 280</b> , Fundamentals of Network Security I, NDSCS; <b>CIS 282</b> , Managing Network Security, NDSCS, BSC.
<b>Social and Ethical Implications.</b> Privacy, search and seizure, censorship, the First and Fourth Amendments, role of mobile devices and the internet of things, social interaction, assistive technology, social media, computational biology, intellectual property, biometrics, computer-based crime, risks and reliability, artificial intelligence, game addiction.	<b>CIS 280</b> , Cyber Ethics, BSC, VCSU, NDSU; <b>CSCI 289 (**)</b> , Social Implications in Computing Technology, DBC, UND, WSC; <b>CSCI 331</b> , Social Implications of Computers, MSU; <b>New 300-level course (**)</b> , Social Engineering, NDSU; <b>CSCI 331 (**)</b> , Social Implications of Computers, MiSU; <b>CSCI 486</b> , Social Implications of Computing, DSU, MSU, NDSCS; <b>CSCI 489</b> , Social Implications of Computers, NDSU, <b>New 400-level course (**)</b> , Ethics of Cyber Sciences, BSC.
<b>Specialized Topics in Cybersecurity.</b> Fundamental concepts of defensive and offensive cybersecurity, forensics, distributed system security. Hands-on lab activities.	<b>CIS 116</b> , Internet of Things: Security, WSC; <b>CIS 241/242</b> , IT Forensics I and II, BSC, LRSC (CIS 241, not CIS 242), NDSCS, VCSU, WSC, NDSU; <b>CIS 142 (**)</b> , Ethical Hacking & Network Defense, WSC, NDSU, LRSC; <b>CIS 282</b> , Ethical Hacking, BSC; <b>CIS 470</b> , Penetration Testing, BSC.
<b>Industry-related Experience</b>	<b>CIS 197</b> Cooperative Education/Internship/Capstone, BSC, NDSCS, WSC; <b>CIS 269</b> , Cybersecurity and Computer Networks Capstone, BSC, NDSU; <b>New course (**)</b> , A Nice Intro to Entrepreneurship, NDSU; <b>CSCI 297</b> Experiential Learning, UND; <b>CSCI 445</b> Software Projects Capstone, NDSU; <b>CSCI 460</b> , Capstone Management, MiSU; <b>CSCI 492/493</b> , Senior Capstone I and II, UND, <b>CSCI 491</b> , Computer Science Seminar, NDSCC.

### Undergraduate Certificate in Cybersecurity (Advanced Option), 16-18 credits

Competencies	Example related courses (*)
<b>Programming and Problem Solving.</b> Coding in a higher-level language such as Java, C++, C#, JavaScript, Python; problem solving techniques.	<b>CSCI 124</b> . C++, BSC, VCSU, <b>CSCI 127</b> . Introduction to Programming in Java, LRSC, VCSU, <b>CSCI 130</b> , Introduction to Scientific Programming, UND; <b>CSCI 159</b> , Computer Science Problem Solving, NDSU; <b>CSCI 160/161</b> , Computer Science I and II, NDSU, UND, BSC,

	NDSCS, VCSU, DSU, MSU, LRSC, WSC, MiSU; <b>CSCI 213</b> , Modern Software Development, NDSU; <b>CSCI 227/228</b> , Computing Fundamentals I and II, NDSU.
<b>Principles of Cybersecurity</b> – Fundamentals of types of attacks (e.g., denial of service), malware (e.g., viruses, spyware, ransomware); social engineering; privacy protection; basic incident recovery; basic forensics; switching and routing, security audits.	<b>CIS 282</b> , Computer System Security, NDSCI; <b>CSCI 290 (**)</b> , Cybersecurity and Information Assurance, UND; <b>CSCI 345</b> , Principles of Cybersecurity, NDSU.
<b>Networks and Network Security.</b> Protocols, traffic analysis, wireless systems and security, scanning to detect network vulnerabilities, proxy servers, monitoring methods, troubleshooting, domain name system principles, segmentation, types of networks (WANs, LANs, VPNs, etc.), hands-on activities.	<b>CIS 164(**)/165:</b> Fundamentals of Networking I and II, BSC, DCB, DSU, WSC, NDSCS, LRSC, MSU, VCSU, MiSU, NDSCS; <b>CIS 255</b> , Computer and Network Security, LRSC, NDSU, VCSU, BSC; <b>CIS 268</b> , Intermediate Networking, BSC, VCSU; <b>CIS 280</b> , Fundamentals of Network Security I, NDSCS; <b>CIS 282</b> , Managing Network Security, NDSCS, VCSU; <b>CSCI 327</b> Data Communication, UND.
<b>Defensive Cybersecurity.</b> Threat modeling, vulnerability assessment, management of operating systems, automation of security tasks, multi-platform security procedures, firewall configuration, access control, intrusion detection, incident response procedures. Scripting, email and web security protocols, social engineering, hands-on activities.	<b>CIT 368</b> , Cybersecurity Prevention & Countermeasures, BSC; <b>CSCI 277</b> , Introduction to UNIX, NDSU; <b>CSCI 403</b> , Defensive Network Security, NDSU.
<b>Offensive Cybersecurity</b> – penetration testing and ethical hacking, user behaviors, exploitation methods, identity management, access control, privilege escalation, plants and multi-system pivoting and persistence.	<b>CIT 470</b> , Penetration Testing, BSC; <b>CSCI 487 (**)</b> , Penetration Testing, UND; <b>CSCI 404</b> , Security+ and Ethical Hacking, NDSU.
<b>Industry-related Experience</b>	<b>CIS 197</b> Cooperative Education/Internship/Capstone, BSC, NDSCS; <b>CIS 269</b> , Cybersecurity and Computer Networks Capstone, BSC, NDSU; <b>New course (**)</b> , A Nice Intro to Entrepreneurship, NDSU; <b>CSCI 297</b> Experiential Learning, UND; <b>CSCI 445</b> Software Projects Capstone, NDSU; <b>CSCI 492/493</b> , Senior Capstone I and II, UND; <b>CSCI 495</b> , Field Experience, NDSU.

**Undergraduate Certificate in Software Development, 16-18 credits**

<b>Competencies</b>	<b>Example related courses (*)</b>
<b>Programming and Data Structures.</b> Content associated with widely accepted recommendations for what are known as CS1 (programming) and CS2 (data structures) courses. Topics areas include object orientation, abstraction, conditionals, functions, iteration, arrays, loops, case classes, GUIs, sorting and searching, recursion, lists, trees, graphs. Algorithm design and performance evaluation. Documentation and code reviews. Specific choice of higher-level language is arbitrary.	<b>CSCI 160/161</b> , Computer Science I and II, 4 credits each, NDSU, UND, BSC, NDSCS, VCSU, DSU, MSU, LRSC, WSC, MiSU; <b>CSCI 174</b> , Intermediate Programming C++, DSU, MSU; <b>CSCI 227/228</b> , Computing Fundamentals I and II, NDSU; <b>CSCI 242</b> Algorithms and Data Structures, UND.
<b>Software Engineering Fundamentals.</b> Basic principles and tasks of the software development life cycle, including planning, requirements, design, coding, testing, deployment, maintenance.	<b>CSCI 160/161</b> , Computer Science I and II, 4 credits each, NDSU, UND, BSC, NDSCS, VCSU, DSU, MSU, LRSC, WSC, MiSU; <b>CSCI 213</b> , Modern Software Development, NDSU; <b>CSCI 227/228</b> , Computing Fundamentals I and II, NDSU; <b>MIS 315 (**)</b> , System Analysis and Design, NDSU.
<b>Specialized and Advanced Topics in Software Development.</b> Virtualization, cloud computing, development of mobile apps, distributed systems, comparative languages, web development, internet of things, declarative languages, database management, structured query language.	<b>CIS 180</b> , Creating Web Pages, WSC, NDSCS, VCSU, DCB; <b>CIS 204</b> , Database Design and Structured Query Language, BSC, DCS, MSU, VCSU, NDSCS, NDSU; <b>CSCI 265</b> , Introduction to Programming Languages, UND; <b>CSCI 266</b> , Tools and Techniques of Computing Practice UND; <b>CSCI 270</b> , Computer Organization, BSC, LRSC, VCSU, MiSU, NDSCS; <b>CSCI 270</b> Programming for Data Science, UND; <b>CSCI 275 (**)</b> , Computer and Digital Hardware, MiSU; <b>CSCI 280</b> , Object Oriented Programming, UND; <b>CSCI 310</b> , Advanced Computer Programming in Java, NDSCS; <b>CSCI 312</b> . Survey of Programming Languages, NDSU; <b>CSCI 313</b> . Advanced Software Development, NDSU; <b>CSCI 330</b> , Systems Programming, UND; <b>CSCI 335</b> , Systems Programming, MiSU; <b>CSCI 360</b> , Database management, NDSCS; <b>CSCI 366</b> , Database Systems, NDSU; <b>CSCI 374</b> , computer Organization and Architecture, NDSU; <b>MIS 375 (**)</b> , Database Design for Business Applications, NDSU; <b>CSCI 488</b> , Human-Computer Interaction, NDSU.
<b>Industry-related Experience</b>	<b>CIS 197</b> Cooperative Education/Internship/Capstone, BSC, NDSCS; <b>New course (**)</b> , A Nice Intro to Entrepreneurship, NDSU; <b>CSCI 279</b> Experiential Learning, UND; <b>CSCI 445</b> Software Projects Capstone, NDSU; <b>CSCI 492/493</b> , Senior Capstone I and II, UND.

(\*) Suggested only, not intended to be a complete course candidate list.

(\*\*) Courses designed and developed for remote delivery under Dakota Digital Academy funding.

**Campus Abbreviations:**

BSC – Bismarck State College

DCB – Dakota College of Bottineau

DSU – Dickinson State University

LRSC – Lake Region State College

MaSU – Mayville State University

MiSU – Minot State University

NDSCS – North Dakota State College of Science

NDSU – North Dakota State University

UND – University of North Dakota

VCSU – Valley City State University

WSC – Williston State College

**Signatures:***Mark Hagerott*

10/27/2021

**Signature Authority**Mark Hagerott, Chancellor  
North Dakota University System Office**Date***Daniel Leingang*

10/29/2021

**Signature Authority**Daniel Leingang, Vice President of Academic Affairs,  
Bismarck State College**Date***Larry Brooks*

11/4/2021

**Signature Authority**Larry Brooks, Associate Dean of Academic & Student Affairs,  
Dakota College at Bottineau**Date***Debora Dragseth*

10/27/2021

**Signature Authority**Debora Dragseth, Vice President of Academic Affairs/Provost,  
Dickinson State University**Date***Lloyd Halvorson*

11/1/2021

**Signature Authority**Lloyd Halvorson, Vice President of Academic & Student  
Affairs,  
Lake Region State College**Date***Tami Such*

10/25/2021

**Signature Authority**Tami Such, Interim Vice President of Academic Affairs,  
Mayville State University**Date***Laurie Geller*

10/27/2021

**Signature Authority**Laurie Geller, Vice President of Academic Affairs,  
Minot State University**Date***Lisa Karch*

10/27/2021

**Signature Authority**Lisa Karch, Vice President for Instruction,  
North Dakota State College of Science**Date***Margaret Fitzgerald*

10/29/2021

**Signature Authority**Margaret Fitzgerald, Provost,  
North Dakota State University**Date***EO*

10/25/2021

Legal review: \_\_\_\_\_ Date: \_\_\_\_\_

*eric link*

10/29/2021

**Signature Authority**Eric Link, Vice President of Academic Affairs/Provost,  
University of North Dakota**Date***Margaret Dahlberg*

11/2/2021

**Signature Authority**Margaret Dahlberg, Vice President of Academic Affairs,  
Valley City State University**Date***Kimberlie Wray*

10/27/2021

**Signature Authority**Kimberli Wray, Vice President of Academic Affairs,  
Williston State College**Date**

**Certificate Of Completion**

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<p>Eric Olson edolson@nd.gov General Counsel Security Level: Email, Account Authentication (None)</p> <p><i>EO</i></p> <p>Signature Adoption: Pre-selected Style Using IP Address: 24.111.78.45</p>	<p>Sent: 10/25/2021 3:18:53 PM Viewed: 10/25/2021 9:59:50 PM Signed: 10/25/2021 10:00:00 PM</p>

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<p>Mark Hagerott mark.hagerott@ndus.edu Chanellor Security Level: Email, Account Authentication (None)</p> <p><i>Mark Hagerott</i></p> <p>Signature Adoption: Pre-selected Style Using IP Address: 165.234.13.243</p>	<p>Sent: 10/25/2021 10:00:02 PM Viewed: 10/27/2021 7:37:11 AM Signed: 10/27/2021 8:24:48 AM</p>
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<p>Daniel Leingang daniel.leingang@bismarckstate.edu VP for Academic Affairs Security Level: Email, Account Authentication (None)</p> <p><i>Daniel Leingang</i></p> <p>Signature Adoption: Pre-selected Style Using IP Address: 165.234.57.238</p>	<p>Sent: 10/27/2021 8:24:51 AM Resent: 10/29/2021 12:31:14 PM Viewed: 10/27/2021 2:01:36 PM Signed: 10/29/2021 2:03:31 PM</p>
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<p>Debora Dragseth deb.dragseth@dickinsonstate.edu Security Level: Email, Account Authentication (None)</p> <p><i>Debora Dragseth</i></p> <p>Signature Adoption: Pre-selected Style Using IP Address: 165.234.131.129</p>	<p>Sent: 10/27/2021 8:24:51 AM Viewed: 10/27/2021 9:16:54 AM Signed: 10/27/2021 9:17:48 AM</p>
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<p>eric Link eric.link@und.edu Provost Security Level: Email, Account Authentication (None)</p>	<p><i>eric link</i></p> <p>Signature Adoption: Pre-selected Style Using IP Address: 174.199.43.64 Signed using mobile</p>	<p>Sent: 10/27/2021 8:24:54 AM Resent: 10/29/2021 12:31:15 PM Viewed: 10/27/2021 12:35:27 PM Signed: 10/29/2021 2:16:49 PM</p>
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<p>Kimberlie Wray kimberli.wray@willistonstate.edu Security Level: Email, Account Authentication (None)</p>	<p><i>kimberlie Wray</i></p> <p>Signature Adoption: Pre-selected Style Using IP Address: 208.184.162.171</p>	<p>Sent: 10/27/2021 8:24:51 AM Viewed: 10/27/2021 9:46:47 AM Signed: 10/27/2021 9:47:05 AM</p>
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<p>Larry Brooks larry.brooks@dakotacollege.edu Security Level: Email, Account Authentication (None)</p>	<p><i>Larry Brooks</i></p> <p>Signature Adoption: Pre-selected Style Using IP Address: 165.234.172.8</p>	<p>Sent: 10/27/2021 8:24:52 AM Resent: 10/29/2021 12:31:15 PM Resent: 11/4/2021 2:33:07 PM Viewed: 11/4/2021 2:40:08 PM Signed: 11/4/2021 2:40:20 PM</p>
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<p>Laurie Geller laurie.geller@minotstateu.edu Security Level: Email, Account Authentication (None)</p>	<p><i>Laurie Geller</i></p> <p>Signature Adoption: Pre-selected Style Using IP Address: 165.234.213.107</p>	<p>Sent: 10/27/2021 8:24:52 AM Resent: 10/27/2021 9:18:35 AM Viewed: 10/27/2021 10:29:24 AM Signed: 10/27/2021 10:34:02 AM</p>
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<p>lisa Karch lisa.karch@ndscs.edu Security Level: Email, Account Authentication (None)</p>	<p><i>lisa karch</i></p> <p>Signature Adoption: Pre-selected Style Using IP Address: 134.129.36.128</p>	<p>Sent: 10/27/2021 8:24:54 AM Viewed: 10/27/2021 10:26:08 AM Signed: 10/27/2021 10:27:51 AM</p>
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<p>Lloyd Halvorson lloyd.halvorson@lrsc.edu VP Academic and Student Affairs Security Level: Email, Account Authentication (None)</p>	<p><i>Lloyd Halvorson</i></p> <p>Signature Adoption: Pre-selected Style Using IP Address: 134.129.247.101</p>	<p>Sent: 10/27/2021 8:24:52 AM Resent: 10/29/2021 12:31:16 PM Viewed: 11/1/2021 8:01:53 AM Signed: 11/1/2021 8:02:53 AM</p>
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Margaret Dahlberg  
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*Margaret Dahlberg*  
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Margaret Fitzgerald  
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Signature Adoption: Pre-selected Style  
Using IP Address: 134.129.83.182

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### **Consequences of changing your mind**

If you elect to receive required notices and disclosures only in paper format, it will slow the speed at which we can complete certain steps in transactions with you and delivering services to you because we will need first to send the required notices or disclosures to you in paper format, and then wait until we receive back from you your acknowledgment of your receipt of such paper notices or disclosures. Further, you will no longer be able to use the DocuSign system to receive required notices and consents electronically from us or to sign electronically documents from us.

### **All notices and disclosures will be sent to you electronically**

Unless you tell us otherwise in accordance with the procedures described herein, we will provide electronically to you through the DocuSign system all required notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any notice or disclosure, we prefer to provide all of the required notices and disclosures to you by the same method and to the same address that you have given us. Thus, you can receive all the disclosures and notices electronically or in paper format through the paper mail delivery system. If you do not agree with this process, please let us know as described below. Please also see the paragraph immediately above that describes the consequences of your electing not to receive delivery of the notices and disclosures electronically from us.

### **How to contact North Dakota University System:**

You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:

To contact us by email send messages to: [ericka.westphal@ndus.edu](mailto:ericka.westphal@ndus.edu)

### **To advise North Dakota University System of your new email address**

To let us know of a change in your email address where we should send notices and disclosures electronically to you, you must send an email message to us at [dirk.huggett@ndus.edu](mailto:dirk.huggett@ndus.edu) and in the body of such request you must state: your previous email address, your new email address. We do not require any other information from you to change your email address.

If you created a DocuSign account, you may update it with your new email address through your account preferences.

### **To request paper copies from North Dakota University System**

To request delivery from us of paper copies of the notices and disclosures previously provided by us to you electronically, you must send us an email to [ericka.westphal@ndus.edu](mailto:ericka.westphal@ndus.edu) and in the body of such request you must state your email address, full name, mailing address, and telephone number. We will bill you for any fees at that time, if any.

### **To withdraw your consent with North Dakota University System**

To inform us that you no longer wish to receive future notices and disclosures in electronic format you may:

- i. decline to sign a document from within your signing session, and on the subsequent page, select the check-box indicating you wish to withdraw your consent, or you may;
- ii. send us an email to [ericka.westphal@ndus.edu](mailto:ericka.westphal@ndus.edu) and in the body of such request you must state your email, full name, mailing address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

### **Required hardware and software**

The minimum system requirements for using the DocuSign system may change over time. The current system requirements are found here: <https://support.docusign.com/guides/signer-guide-signing-system-requirements>.

### **Acknowledging your access and consent to receive and sign documents electronically**

To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please confirm that you have read this ERSD, and (i) that you are able to print on paper or electronically save this ERSD for your future reference and access; or (ii) that you are able to email this ERSD to an email address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format as described herein, then select the check-box next to ‘I agree to use electronic records and signatures’ before clicking ‘CONTINUE’ within the DocuSign system.

By selecting the check-box next to ‘I agree to use electronic records and signatures’, you confirm that:

- You can access and read this Electronic Record and Signature Disclosure; and
- You can print on paper this Electronic Record and Signature Disclosure, or save or send this Electronic Record and Disclosure to a location where you can print it, for future reference and access; and
- Until or unless you notify North Dakota University System as described above, you consent to receive exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you by North Dakota University System during the course of your relationship with North Dakota University System.