



UNIVERSITY OF MINNESOTA

INSTITUTIONAL AND PROGRAM AFFILIATION AGREEMENT

Between

Regents of the University of Minnesota

on behalf of its

Morris Campus ("University" or "UMN Morris")

and

Akhmet Baitursynuly Kostanay Regional University ("Affiliate" or "BU")

WITH THIS INSTITUTIONAL AND PROGRAM AFFILIATION AGREEMENT ("Agreement"), effective upon final signature, the University of Minnesota Morris and Baitursynuly University, sharing common goals of education and desiring to facilitate and enrich opportunities for students of BU interested in computer science to participate in educational experiences offered by the UMN Morris, as described in further detail on Schedule(s) attached to this Agreement.

NOW, THEREFORE, the parties agree as follows:

1. Description of Program.

1.1 The goals of this collaboration are to provide BU students the opportunity to enroll in a BU and UMN dual degree program. Students who successfully complete all requirements of the BU and UMN dual degree program, including a minimum of 30 credit hours of course work through UMN Morris, will be awarded a diploma in Computer Engineering from BU and a Bachelor of Arts degree in Computer Science from UMN Morris, as described in further detail on Schedule(s) attached to this Agreement. The course requirements are summarized in Schedule A to this Agreement.

1.2 UMN Morris and BU will each identify a person or persons responsible for liaison during the course of this Agreement, which may be updated from time to time on Schedule(s) attached to this Agreement:

The Affiliate:

Akhmet Baitursynuly Kostanay Regional University

Attn:

Seitbek Kuanyshbayev

Chairperson of the Board - Rector

47, Baytursynov Street

110000 Kostanay

Republic of Kazakhstan

Phone No.: +7 7142 51-11-57

E-mail: info@ksu.edu.kz

The University:

University of Minnesota

Morris campus

Attn:

Janet Ericksen

Chancellor

309 Behmler Hall

600 East 4th Street

Morris, MN 56267

USA

Phone No.: +1.320.589.6020

E-mail: ummchan@morris.umn.edu

2. Responsibilities of the Parties.

2.1 Joint Responsibilities.

2.1.1 The persons responsible for the liaison will jointly plan for:

- a. Selection, assignment, and orientation of students;
- b. Periodic review and preparation of objectives for the instructional program;
- c. Evaluation of student performance.

2.1.2 UMN Morris, in consultation with BU, has authority to withdraw, suspend or terminate a student enrolled in the program for violations of the UMN Morris Student Code of Conduct while attending courses at the UMN Morris campus. This may include financial non-payment, academic deficiencies, behavioral violations or other sufficient reason subject to certain procedures afforded to the student. In cases where a student's performance or conduct threatens the safety or welfare of other students, visitors or staff of UMN Morris, UMN Morris may immediately suspend the student's participation in the program at UMN Morris.

2.1.3 To the extent permitted by law, UMN Morris and BU agree to inform each other of any specific issues related to the student (i.e., documented disability unless the student discloses, disciplinary action, etc.) as early in the acceptance process as possible to allow for the appropriate advising and counseling of the student regarding the program selected and to facilitate making arrangements on site when possible.

2.1.4 To the extent permitted by law, UMN Morris and BU agree to inform each other of any crisis or emergency related to the students. Additionally, if BU determines, in good faith and in its reasonable judgement, that a program needs to be cancelled, students need to be evacuated, different program arrangements including delivery of the academic program need to be made, communications to that effect will be sent immediately to the University. In cases where University policy is not consistent with program policy, BU agrees to defer to and uphold University policy.

2.1.5 The student is a participant in an educational program, and for purposes of this Agreement, shall not be considered an employee of either BU or the University.

2.1.6 The parties agree to review this Agreement periodically to ensure it meets with its respective curriculum requirements, as well as standards of its accrediting agency. Additionally, the parties shall evaluate the operations and effectiveness of this Agreement. Modifications to this Agreement shall be made pursuant to Section 7.

2.1.7 UMN Morris and BU agree to provide a range of services related to academic and administrative, communications and promotion and financial arrangements. (See Schedule A for specific details.)

2.1.8 Each party shall bear its own cost and expenses related to the Agreement unless otherwise mutually arranged and agreed in writing.

2.1.9 UMN Morris and BU are each responsible for ensuring the quality of the courses offered through this Agreement. To further develop and ensure the quality of the program, the parties agree to share course curriculums and faculty credentials.

2.1.10 UMN Morris and BU agree to exchange information on the academic standing and grades of each student to ensure that each candidate meets all the academic requirements necessary for the continued matriculation in the program, as determined by the academic standards of UMN Morris and BU.

2.2 BU Responsibilities.

2.2.1 Actively recruit qualified students for dual degree program based on the qualifications as mutually agreed by the parties from time to time.

2.2.2 Be responsible for the costs of qualified students' recruitment, including but not limited to: salaries and bonuses for recruitment staff, venue rental, advertising, printing of recruitment materials, referral fees if applicable, and other administrative costs. All cost and other responsibilities to employees, instructors/faculty, contractors and staff provided to the program by BU shall remain the responsibility of BU and such employees, instructors/faculty, contractors and staff shall not be employees, instructors/faculty, contractors or staff of UMN Morris.

2.2.3 Explain admissions requirements and application procedures to prospective dual degree students and provide guidance on the application process as needed.

2.2.4 Be responsible for the general administrative duties, including registration, coursework and financial matters related to the Computer Engineering diploma for BU's students enrolled in its computer engineering program.

2.2.5 Assume responsibility for all BU coursework that is required for the dual degree program in order to meet the accreditation requirements.

2.2.6 Upon request by UMN Morris, BU agrees to assist the UMN Morris's admission committee in its selection of BU students for enrollment in the program.

2.2.7 Ensure BU students understand and agree to the requirement that they must maintain hospitalization and medical insurance for the portion of their dual degree programs that occur on the UMN Morris campus.

2.2.8 Advise its students that upon completion of the agreed upon term at UMN Morris, the participating student must return to BU without fail. Any extension of stay must be approved by both institutions.

2.2.9 Additional responsibilities set forth in Schedule A.

2.3 UMN Morris Responsibilities

2.3.1 UMN Morris shall be responsible for the general administrative duties, including registration, coursework and financial matters for the BU students enrolled in the program leading to a dual BU/UMN Morris degree while the students are studying at UMN Morris campus.

2.3.2 UMN Morris shall assume responsibility for all the coursework offered on UMN Morris campus in order to meet the accreditation requirements.

2.3.3 UMN Morris requires that BU students carry hospitalization and medical insurance while studying on UMN Morris campus. Neither BU nor UMN Morris is responsible for hospitalization or medical costs incurred by BU students during the dual degree program under this Agreement.

2.3.4 To the extent UMN Morris generates or maintains educational records related to students participating under this Agreement, UMN Morris will comply with the Family Educational Rights and Privacy Act ("FERPA") to the same extent such laws and regulations apply to the dual degree program and shall limit access to only those employees or agents with a need to know. For purposes of this Agreement, pursuant to FERPA, BU hereby designates UMN Morris as a school official with a legitimate educational interest in the educational records of the participating students to the extent that access to BU's records is required by UMN Morris to perform its responsibilities under this Agreement.

2.3.5 Additional responsibilities set forth in Schedule A.

3. **Promotion and Marketing.**

Use of University of Minnesota Name. During and subject to the terms of this Agreement, UMN Morris grants to BU a nonexclusive right to use the phrase "In collaboration with the University of Minnesota Morris" in connection with the promotion and marketing of the program, provided that UMN Morris shall have the right to review and approve BU's

proposed use of the above phrase. To this end, BU shall provide UMN Morris with a copy of its proposed use for UMN Morris's written approval. Approval may be granted or withheld by UMN Morris at its sole option. After a specific use has been approved pursuant to this Section, BU shall not depart therefrom in any material respect without UMN Morris's prior written consent.

4. Tuition.

4.1 The parties agree with the tuition for each participating student in the program set forth in Schedule A. Such tuition includes the cost of instruction. The tuition shall not include expenses incurred in the course of attending the program or fulfill students' obligations as participants in the program, including but not limited to transportation, computer (or other technology), accommodation, living expenses, cost to participate in graduation ceremony in the United States. Additional costs are the responsibility of either BU, the student, or a third party.

4.2 The tuition shall be paid by BU or its designee to UMN Morris based on the schedule provided in Schedule A.

5. Institutional Liability Insurance and Indemnity.

5.1 The University shall maintain (i) Commercial General Liability insurance in minimum amounts of US\$1,000,000 each claim and US\$3,000,000 each occurrence; and (ii) Automobile Liability insurance in minimum amounts of US\$500,000 each person and US\$1,500,000 each occurrence. Upon request, the University will provide a certificate of insurance evidencing such coverage.

5.2 The University agrees to defend, hold harmless, and indemnify BU, its officers, agents, employees and representatives against all claims for loss or damage to property or injury or death to persons, including reasonable attorney's fees arising from the negligent or wrongful acts or omissions of the University, its employees, agents, or representatives during the performance of its obligation under this Agreement. The University's liability is limited to the extent pursuant to the Minnesota State Tort Claims Act, Minn. Stat. § 3.736.

5.3 BU shall maintain (i) Commercial General/Public Liability insurance in minimum amounts of US\$1,000,000 each occurrence and US\$2,000,000 annual aggregate, and (ii) Automobile Liability insurance in minimum amounts of the equivalent of US\$1,000,000 each occurrence. Upon request, BU will provide a certificate of insurance evidencing such coverage. Regents of the University of Minnesota will be included as an additional insured for General Liability and Automobile Liability.

5.4 BU agrees to defend, hold harmless, and indemnify the University, its regents, officers, agents, employees, and representatives against all claims for loss or damage to property or injury or death to persons, including reasonable attorney's fees arising from the negligent or wrongful acts or omissions of BU, its employees, agents, or representatives, during the performance of its obligations under this Agreement.

6. Other Terms.

6.1 The Agreement shall be effective as shown above and shall remain in effect for one (1) year and automatically renew annually thereafter, unless terminated earlier. It may be terminated by either party upon at least six (6) months' written notice to the other party, provided that all students enrolled in the program at the time of notice of termination is given shall be permitted to finish their course of study. If this Agreement is terminated, neither BU nor the University shall be liable to the other for any monetary or other losses that may result other than program fees and/or late fees that may have not been paid at the time.

6.2 Neither the University nor BU shall discriminate on the basis of race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity or gender expression in the performance of this Agreement.

6.3 Neither the University nor BU shall be responsible for any delays or failure to perform any obligation under this Agreement due to causes beyond the reasonable control of such party, including (but not limited to) health epidemics, terrorist acts, war, insurrection, embargoes, governmental restrictions or other acts of governmental authorities beyond the control of such party. Notwithstanding the foregoing, the University and BU agree to cooperate in good faith to mitigate the effect of any such delays or failures to perform, with the goal of achieving, to the extent possible, the objectives of this Agreement.

6.4 This Agreement supersedes all other agreements relating to the subject matter of this Agreement existing between the University and BU.

6.5 Nothing in this Agreement is intended or should be construed as creating the relationship of partners, copartners, joint ventures, or an association among the parties, nor shall any party, its employees, agents, students or representatives be considered employees, agents or representatives of any other party.

6.6 It is specifically agreed that neither party shall be responsible for costs or expenditures incurred by the other in the conduct of the programs contemplated hereby, except as expressly provided in this Agreement.

7. Schedules and Amendments. Subject to the written authorization by appropriate representatives of the University and BU, Schedules and Amendments to this Agreement may be attached hereto from time to time. It is the intent of the parties that Schedules may be developed to facilitate day to day and year to year execution of the goals of the Agreement. Amendments, if any, may be developed to amend the principal terms and conditions of this Agreement. Each such Schedule and Amendment shall be in writing and executed by an authorized representative of each

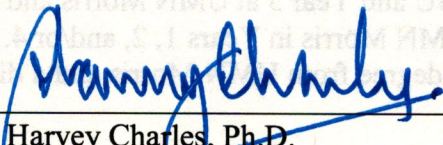
of the parties. To the extent any such Schedule or Amendment is not properly executed by persons authorized to do so, it shall be considered null and void.


IN WITNESS WHEREOF, each party hereby represents that the individual signing below on its behalf are duly authorized to execute and deliver this Agreement on behalf of their respective party.

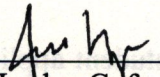
Regents of the University of Minnesota

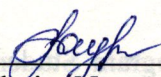
Akhmet Baitursynuly Kostanay Regional University

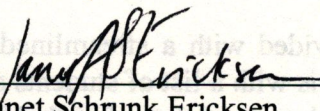
Approved:

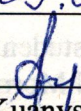
By: 
Name: Harvey Charles, Ph.D.
Title: Vice Provost for
International Programs,
University of Minnesota
Date: 9/12/2024

By: 
Name: Zhenis Zharlygassov, Ph.D.
Title: Vice-Rector for Research, Innovation
and Digitalization
Akhmet Baitursynuly Kostanay Regional
University
Date: 10.09.2024

By: 
Name: Jordan Cofer
Title: Vice Chancellor for Academic Affairs,
University of Minnesota Morris Campus
Date: 10 September 2024

By: 
Name: Elmira Nauryzbayeva, Ph.D.
Title: Vice-Rector for Academic Affairs
Akhmet Baitursynuly Kostanay Regional
University
Date: 10.09.2024

By: 
Name: Janet Schrunk Ericksen
Title: Chancellor, University of Minnesota
Morris Campus
Date: 10 September 2024

By: 
Name: Seitbek Kuanyshbayev
Title: Chairperson of the Board – Rector
Akhmet Baitursynuly Kostanay Regional
University
Date: 10.09.2024

SCHEDULE A INSTITUTIONAL AND PROGRAM AFFILIATION AGREEMENT DETAILS

Institutional and Program Affiliation Agreement between Akhmet Baitursynuly Kostanay Regional University (BU) and University of Minnesota Morris (UMN Morris) in Computer Science, subject to review and re-approval by both parties five years after date of final approval. BU and UMN Morris continue to value and review opportunities to collaborate on educational programs for students in Kazakhstan and the United States. As part of UMN Morris's commitment to this long-term relationship, the Bachelor of Arts in Computer Science is proposed for select BU students, in which students spend Year 1, 2, and 4 at BU and Year 3 at UMN Morris and may also complete a small number of online courses through UMN Morris in Years 1, 2, and/or 4. Students who complete this 2+1+1 program will receive a BA degree from UMN Morris and a diploma in Computer Engineering from BU.

Our proposal follows discussions that included delegates from both schools and interest on both sides in an ongoing relationship that may expand to other academic areas.

The details of the program agreement are below.

BU responsibilities:

1. To become a Program Student in the Dual Degree Program, the student applicant must meet both Institutions' admissions criteria, and both Institutions (in their sole discretion) must accept the student applicant into the Dual Degree Program. The agreed upon expectation is for 50 students to enter the Program annually; no more than 75 students may join the Program per year.

Undergraduate students enrolled at BU will be provided with a streamlined admission process to UMN Morris. BU will provide UMN Morris with a list of students selected for the Program, including first name, last name, email address, and date of birth. UMN Morris will then create a pre-populated application for each student to complete and submit online. While students will be required to complete this application form, the application fee and enrollment deposit fee will be waived. BU will provide English translations of student academic records (pre-University transcripts or comparable) and requisite demographic details.

2. Students' continuation in the Program is contingent upon academic good standing (grades equivalent to C- or above) for courses in the specialization in Years 1 and 2.
3. Students whose native language is not English must show demonstrated English proficiency by achieving and providing formal documentation to UMN Morris of one of the following scores not later than July 15 in the same year as beginning Year 3 in order to continue in the program:
 - 79 TOEFL (IBT), 213 (CBT), 550 (PBT)

- 5.5 overall IELTS
 - 53 PTE Academic or PTE Academic Online
 - 105 [Duolingo English Test](#)
 - 21 subscores in English and reading on ACT
 - 540 in reading and writing on SAT
4. BU agrees to make these adjustments in the content of their courses, guided by UMN Morris requirements and faculty input, not later than September 1, 2025 and with documentation of the changes shared to UMN Morris by that date:
 - A. Discrete mathematics course to more closely align with UMN Morris course by putting more emphasis on inductive proofs and proofs of O-notation.
 - B. BU curriculum will teach the Java programming language before students take CSci 3501 and 3601 at UMN Morris.
 - C. BU curriculum will include UNIX or LINUX operating system and command-line scripting.
 5. A Year 4 capstone paper and oral presentation in English will be required for a University degree. UMN Morris will continue to work with BU faculty to finalize the capstone process and requirements for Year 4 students.
 6. UMN Morris and BU faculty will maintain open and regular communication. A separate agreement may be reached for at least one UMN Morris faculty member to spend a term working at BU or to arrange a faculty exchange.
 7. For the cohort entering the Program in 2024, BU will ensure payment to UMN Morris for each student admitted to the program a fixed fee of \$21,000 USD, divided into four payments of \$5,250 per year. The fixed program fee for each subsequent cohort will increase by 3% annually to account for the inflationary cost of tuition and continue to be paid as described in 7 A-D:

	Academic Year								Total
	24-25	25-26	26-27	27-28	28-29	29-30	30-31	31-32	
Cohort 1	\$5250	\$5250	\$5250	\$5250					\$21,000
Cohort 2		\$5407	\$5407	\$5407	\$5407				\$21,628
Cohort 3			\$5569	\$5569	\$5569	\$5569			\$22,276
Cohort 4				\$5736	\$5736	\$5736	\$5736		\$22,944
Cohort 5					\$5908	\$5908	\$5908	\$5908	\$23,632

The fixed program fee includes only tuition and allowable fees. The year in residence at UMN Morris (Year 3) will incur additional charges including but not limited to room and board, additional university fees, health insurance, course materials, and personal expenses. These additional charges are not the responsibility of UMN Morris; they must be paid by BU, the student, or a third party. BU shall transfer to UMN Morris a fee payment in accordance with the schedule above. A third-party billing authorization must be provided to the office handling third-party billing for the campus. It may be a letter on official letterhead, purchase order, or voucher. Any restrictions or contingencies on the

authorization are unacceptable. Invoices will be sent from and paid, preferably by international wire transfer, to:

UMN Morris Business Office

Attn: Third-Party Billing

600 E 4th St.

Behmler Hall 205

Morris, MN 56267

Fax: 320-589-6126

Phone: 320-589-6004

E-mail: umm-student-finance@morris.umn.edu

In the first year of the partnership, the fixed-fee payment shall be made on or before August 30, 2024; in each academic year thereafter, fifty percent (50%) of the fee payment shall be due on or before September 30 of the applicable academic year and fifty percent (50%) of the fee payment shall be due on or before January 31, of the applicable academic year. The fee payment is in consideration for UMN Morris offering the Dual Degree Program, program set-up, administration, and academic delivery related costs for the planned number of Program Students specified below. Fee payment specified below shall be made to UMN Morris in accordance with the above schedule and such payments are necessary before UMN Morris will perform its obligations under the Agreement and this Addendum.

Failure to comply with the agreed-upon payment schedule will result in the cancellation of program students' registration in UMN Morris courses and program students will be prevented from registering for subsequent terms until payment is made in full.

A. BU shall ensure transfer to UMN Morris a fee payment equal to \$5,250 USD plus the 3% inflationary increase for subsequent years during the first year of the Dual Degree Program per student enrolled in the Dual Degree Program for tuition for academic delivery related costs for up to 50 Program Students. This payment shall be credited by UMN Morris for the Dual Degree Program tuition for academic delivery related costs for up to 50 Program Students.

B. BU shall ensure transfer to UMN Morris a fee payment equal to \$5,250 USD plus the 3% annual inflationary increase for subsequent years during the second year of the Dual Degree Program per student enrolled in the Dual Degree Program for projected enrollment of up to 100 Program Students. This payment shall be credited by UMN Morris for the Dual Degree Program tuition for academic delivery related costs for up to 100 Program Students.

C. BU shall ensure transfer to UMN Morris a fee payment equal to \$5,250 USD plus the 3% annual inflationary increase for subsequent years during the third year of the Dual Degree Program for projected enrollment of up to 150 Program Students. This payment shall be credited by UMN Morris for the Dual Degree Program tuition for academic delivery related costs for such 150 Program Students.

D. BU shall ensure transfer to UMN Morris a fee payment equal to \$5,250 USD plus the 3% annual inflationary increase for subsequent years during the fourth year, and every year thereafter, of the Dual Degree Program for projected enrollment of up to 200 Program Students in the fourth year and up to two hundred (200) Program Students every year thereafter. This payment shall be credited by UMN Morris for the Dual Degree Program tuition for academic delivery related costs for such 200 Program Students.

E. If fewer than the projected number of students enroll in the Dual Degree Program specified in this schedule, then UMN Morris may agree to accept such payment for the number of students who actually enroll, but such determination shall be in UMN Morris's sole and absolute discretion. If BU elects that the required payment be made notwithstanding that fewer students than were projected to enroll, no refund of any of the amount of such payment shall be made by UMN Morris in the event fewer than the projected enrolled number of Program Students actually enroll in or complete such Dual Degree Program during any academic year for which the projected payment has been made.

UMN Morris responsibilities:

1. UMN Morris will provide a [guide](#) to the visa process, beginning with SEVIS. SEVIS is the database that U.S. Immigration Service uses to track all International Students studying in the United States. Most new students must pay the SEVIS fee before applying for an entry visa or entering the United States. This fee, SEVIS I-901 Fee, is assessed by the U.S. Department of Homeland Security and is not administered by the University of Minnesota.
2. UMN Morris will provide to Program students in Year 3 full access to other educational and professional opportunities provided to students enrolled in any UMN Morris degree program.
3. A Year 4 capstone paper and presentation in English will be required for degree. UMN Morris will continue to work with BU faculty to finalize the capstone process and requirements for Year 4 students.
4. UMN Morris and BU faculty will maintain open and regular communication. A separate agreement may be reached for at least one UMN Morris faculty member to spend a term working at BU or to arrange a faculty exchange.
5. Upon completion of all academic requirements, students will be awarded the BA in Computer Science from the University of Minnesota.
6. The UMN Morris program under this institutional and program agreement is as follows, with minor changes to the schedule that will not affect progress to degree, such as the change in the semester when a course is offered, possible. Note that the UMN Morris

requirement fulfilled by the course is indicated, by its standard abbreviation, in parenthesis after each course.

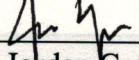
Semester One:		Semester Two:	
Basic Mathematics Course (MATH 1101 and Math/Stat Elective)	2.00	Discrete Mathematics and mathematical logic - (CSCI 1302)	2.00
History of Kazakhstan - (HIST)	2.50	Introduction to Algorithms - (combined CSCI 1221/1222)	2.00
Information and Communication Technologies	2.50	Educational Practice	0.50
Physics - (SCI)	2.50	Probability theory and statistics (Math/Stat Elective, MSR)	2.00
Kazakh (Russian) Language - (GE)	2.50	Kazakh (Russian) Language - (WL)	2.50
Foreign Language - (GE)	2.50	Foreign Language - (WL)	2.50
Physical Culture	1.00	Physical Culture	1.00
UMN Morris Lang 1081, Academic Cultural and Oral Skills in the American University, part 1, online – asynchronous/correspondence	1.00	UMN Morris Lang 1082, Academic Cultural and Oral Skills in the American University, part 2 – online	1.00
Semester Total	16.50	Semester Total	13.50
Semester Three:		Semester Four:	
Sociology, Political science, Culturology (GENED TBD)	3.00	Object-oriented programming - (combined CSCI 2101)	2.00
Psychology - (SS)	1.00	Data structures and analysis - (combined CSCI 2101)	2.00
Philosophy - (HUM)	2.50	Electronics - (SCI-L)	2.00
Computational Mathematics (Math/Stat Elective)	2.00	Industrial practice	1.00
Design and development of programs (combined CSCI 1221/1222)	2.00	Cloud computing - (PP&L or Systems Elective)	2.00

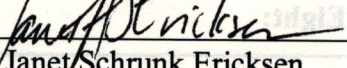
Basics of research and academic writing - (WLA)	2.50	Design and Optimization of computing processes (Math/Stat Elective or Theory Elective)	2.00
UMN Morris Intellectual Communities course, part 1, online	1.00	Fundamentals of robotics - (Systems Elective)	2.00
Physical Culture	1.0	Controller programming - (Systems or PP&L Elective)	2.00
		UMN Morris Intellectual Communities course, part 2, online	1.00
		Physical Culture	1.0
Semester Total	15.00	Semester Total	17.00
Semester Five:		Semester Six:	
CSCI 3501 Algorithms and Computability	5.00	CSCI 3601 Software Design and Development	5.00
MATH/STAT 3xxx/4xxx or CSCI Theory Elective	4.00	CSCI Theory Elective or MATH/STAT 3xxx/4xxx	4.00
Writing Enriched course – may be a CSci/Stat/Math elective	4.00	Fine Arts course	2.00-4.00
Art Performance course	2.00	Elective – may be a CSci/Stat/Math elective	4.00
Semester Total	15.00	Semester Total	15.00-17.00
Semester Seven:		Semester Eight:	
Industrial practice		Industrial practice	7.00
Virtual and augmented reality - (PP&L or Systems Elective)	2.50	Pre-graduation practice	2.50

Computer architecture and organization - (combined CSCI 3412/3413)	2.50	Writing and Defense of the Diploma Work (Project) or Preparation and Passing of a Comprehensive Exam	4.00
Network interaction - (combined CSCI 3412/3413)	2.00		
Information security - (combined CSCI 3412/3413)	2.50		
Operating systems - (combined CSCI 3412/3413)	2.00		
Ethics of artificial intelligence - (ECR)	1.50		
CSCI 4901/4902 (may be taken fall or spring semester)	2.00		
Semester Total	15.00	Semester Total	13.50
		Total Credits	120.5


IN WITNESS WHEREOF, each party hereby represents that the individual signing below on its behalf are duly authorized to execute and deliver this Agreement on behalf of their respective party.


Regents of the University of Minnesota

By: 
Name: Jordan Cofer
Title: Vice Chancellor for Academic Affairs,
University of Minnesota Morris Campus
Date: 10 September 2024

By: 
Name: Janet Schrunck Ericksen
Title: Chancellor, University of Minnesota
Morris Campus
Date: 10 September 2024

Akhmet Baitursynuly Kostanay Regional University

By: 
Name: Elmira Nauryzbayeva, Ph.D.
Title: Vice-Rector for Academic Affairs
Akhmet Baitursynuly Kostanay Regional
University
Date: 10.09.24

By: 
Name: Seitbek Kuanyshbayev
Title: Chairperson of the Board – Rector
Akhmet Baitursynuly Kostanay Regional
University
Date: 10.09.24