Mathematics Education (Secondary)

Articulation Agreement between Lake Region State College and Valley City State University

Introduction: This articulation agreement formally recognizes that Valley City State University (hereinafter VCSU) and Lake Region State College (hereinafter LRSC) are educational institutions which agree to work together to provide educational opportunities for the students of their institutions.

Purpose: The purpose of this agreement is to provide a seamless articulation of credits for students to earn an Associate of Arts/Science in Mathematics from LRSC to transfer to VCSU in order to earn a Bachelor of Science in Education in Mathematics Education from VCSU. This agreement will be set up in the manner where students will be able to complete both their Associate Degree and Bachelor's Degree from the same location.

Motivating Principles and Values:

1. Students will be well served by the partnership and the high-quality program offered through this agreement.
2. This partnership will benefit the educational needs of the regions by providing graduates of high quality.
3. Both campuses seek to maintain compliance with state and national accreditation guidelines to ensure quality.
4. This partnership will provide high-quality collaborative programs to students in a convenient, timely, flexible, and cost-effective manner.

Accreditation: VCSU is accredited by the Higher Learning Commission (HLC); The Council for Accreditation of Education Preparation (CAEP); and approved by the State of North Dakota Education Standards and Practices Board (ESPB). LRSC is accredited by the Higher Learning Commission (HLC).

Longevity of Agreement: This agreement will be in effect for five (5) years, starting January 2021. At the end of the five (5) years, students who have begun the program and are in the process of completion will be allowed to finish (within a one- or two-year

timeline). Agreement will be reviewed as needed to reflect changes in curricula and campus procedures and policies.

Termination or Revisions: LRSC and VCSU agree to provide at least 90 days advance written notification of their intent to terminate the agreement. All revisions of this agreement must be approved in writing by those who sign this agreement or their successors.

Governance and Management: This agreement shall be governed by the academic policies and procedures of LRSC and VCSU. As required by the condition of the program and accreditation, the Bachelor of Science in Education – Mathematics program will be governed by the Mathematics Department at VCSU. Conversely, the Associate of Arts/Science program in Mathematics will be administered by LRSC as required by the guidelines.

VCSU agrees to arrange for a Program Representative to be available to advise Mathematics Education students in the program each semester.

Both VCSU and LRSC will provide a liaison that will be available to inform and guide students through this program.

VCSU agrees to grant a Bachelor of Science in Education with a major in Mathematics Education to students who successfully complete the requirements for the degree.

It is agreed upon that LRSC will provide general education courses, supplementary curriculum, and elective courses which satisfy VCSU graduation requirements for students enrolled in this program based on LRSC minimum enrollment standards. Students that enter the program with an Association of Arts (AA) degree or an Associate of Science (AS) degree will have their general education requirements completed unless a general education course is specific for the BS degree.

The delivery of courses required to obtain a Bachelor of Science in Education degree will be delivered using methods that do not require the students to be present on the VCSU campus.

Graduation Requirements: A minimum of 120 total credits are required for a Bachelor's Degree and must be taken from the appropriate categories. Students must complete a minimum of 30 hours of upper level (300-400 level) credit from VCSU to complete graduation requirements from VCSU. Credit hours earned at LRSC that do not meet general education requirements, technical specialty requirements or teaching option requirements will be used for electives courses.

Admission: Students taking LRSC course(s) must apply and be accepted for admission at LRSC. Students taking VCSU course(s) must apply and be accepted for admission at VCSU. All admission policies at the respective institution will apply.

Registration: Each institution will follow its own policies and procedures for registering students for their programs(s). LRSC will be responsible for registering students in the associate program(s), and VCSU will be responsible for registering student(s) in the baccalaureate program(s). Registering for LRSC and VCSU courses will be separate functions. Registration for courses will follow the respective institution's timeline and procedures, including add/drop and withdraw.

Student Services: During the semesters in which VCSU degree-seeking students are enrolled in at least one LRSC course, they will have access to all LRSC and VCSU student services and vice versa. During the semesters in which VCSU degree-seeking students are enrolled in only VCSU courses, they will have access to all VCSU student services and vice versa. VCSU degree-seeking students who are enrolled in at least one LRSC course are eligible to live in the LRSC residence halls, which includes a required meal plan.

Student Support Services: If students have documented disabilities that may affect their academic experience and are seeking accommodations, it is their responsibility to supply documentation and make a request for services through the office of Student Academic Services as soon as possible.

Financial Aid: Students enrolled in a LRSC two-year degree seeking program will have all aspects of their Federal Title IV Financial Assistance administered by LRSC's Financial Aid Office. This includes, but is not limited to:

- Processing of FAFSA and other applications, determination of eligibility, awarding, and disbursement of funds;
- Assessment and enforcement of satisfactory academic progress standards;
- Calculation and distribution of refunds;
- Administration of all aspects of the Federal Family Educational Loan Programs

During the student's enrollment at LRSC, LRSC policies and procedures will apply. Student budgets (Cost of Attendance) used in establishing aid amounts will be the same as those used for awarding federal aid to other LRSC students. A contact from the LRSC Financial Aid Office will be identified to work with the VCSU Financial Aid Office assigned contact.

For students currently enrolled at both institutions all federal financial aid will be processed by the degree granting institution at both the Associate and Bachelor levels. A consortium agreement must be completed by the student and signed by the host institution and returned to the home degree granting institution.

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VCSU will be responsible for awarding aid to students who have been admitted to VCSU. Students will have all aspects of their Federal Title IV Financial Assistance administered by VCSU Student Financial Aid Office. This includes, but is not limited to:

- Processing of applications, evaluation of eligibility, awarding, and disbursement of funds;
- Assessment and enforcement of satisfactory academic progress standards;
- Calculation and distribution of refunds;
- Billing and collection for Federal Perkins loans;
- Notifying changes in enrollment status to lenders under the Federal Family Educational Loan Programs.

During this enrollment the VCSU policies and procedures will apply. Student budgets (Cost of Attendance) used in establishing aid amounts will be determined in the same method as those used for awarding federal aid to other VCSU students. A contact from the LRSC Financial Aid Office will be identified to work with the VCSU Financial Aid Office assigned contact.

Students on the LRSC campus are not eligible for VCSU sponsored scholarships, waivers, or federal student work-study while pursuing a degree from VCSU. Students enrolled in the VCSU program are not eligible for LRSC sponsored scholarships or waivers. Students may be employed in a LRSC student employee position funded through institutional funds if enrolled in at least six (6) LRSC credits hours during each semester of employment and must meet all LRSC student employee requirements.

Tuition and Fees: Assessment and collection of tuition and fees will be done by the institution that is responsible for the courses. That is, VCSU will be responsible for assessing and collecting all fees for courses offered by VCSU and the same is true of LRSC. All tuition and fees will be collected in accordance with the established policies of the institution to which these payments are due.

Student Life: Rules, regulations, and policies that govern student life that are listed in the LRSC Student Handbook will be applicable to students enrolled in courses while at LRSC. For example, housing, parking, and conduct policies will be governed by LRSC.

Technology and Support Services:

VCSU will provide students in this program adequate technical support in a timely manner for the courses taken from VCSU. LRSC will provide students in this program adequate technical support in a timely manner for the courses taken from LRSC.

Students enrolled in at least one VCSU course will have full access to VCSU technology services, including VCSU wired and wireless computer network, Blackboard account, VCSU email/messaging account, printer access, and computer peripheral equipment checkout. Students may elect to pay the VCSU technology "buy up" fee if they would like full-time access to a VCSU laptop. See procedures in VCSU policy V1901.02.01.

All online students in VCSU courses are expected to abide by the VCSU Distance Learning Technical Requirements.

Marketing: A VCSU representative will come to the LRSC campus once a year to recruit/advise new students for this program. VCSU will be responsible for providing LRSC with marketing materials to distribute to prospective students. Both institutions will display information about this agreement on their transfer website. LRSC will work collaboratively with VCSU to identify prospective students for this program.

Textbooks/Curricular materials: The textbooks and/or curricular materials for the VCSU courses will be purchased through VCSU. Likewise, the textbooks for the LRSC courses will be purchased through LRSC. Students will also have the choice to purchase textbooks on their own.

Faculty and Staff: VCSU will select and assign qualified faculty members to teach the required courses. VCSU will name a Program Coordinator for this agreement. LRSC will assign a faculty member as a liaison for this agreement. LRSC and VCSU will work collaboratively to come up with mutually agreed upon qualifications of the faculty who would teach a course on the LRSC campus as part of the VCSU Bachelor's Degree Program.

VCSU's Mathematics Education Program Coordinator is Jamie Wirth, Department Chair and Associate Professor of Mathematics. 701-845-7734, jamie.wirth@vcsu.edu

LRSC's program coordinator is April Duchscher, Instructor of Mathematics. 701-662-1690, april.duchscher@lrsc.edu

Amendments to the Agreement: Mutually agreed upon amendments to this agreement may be approved by those who sign this agreement or their successors. The agreement may be terminated at any time through joint action of the two presidents with adequate provision for currently enrolled students.

Attachments below:

- pg. 7: A status sheet of the VCSU Mathematics Education B.S. degree requirements with equivalent LRSC courses listed.
- pg. 8: A sample plan of study (VCSU courses shown). Denoted courses indicate that an equivalent course is offered through LRSC.
    - Note that students wishing to graduate in four years would need to take 1-2 MATH courses online from VCSU the spring of their sophomore year due to course offering rotations.
- pg. 9: A list of all required General Education courses, MATH courses, and Professional Education Sequence courses for the VCSU Math Education B.S. degree.

Lake Region State College
An Assoc. in Arts or Assoc. in Science degree will transfer
as a block fulfilling most general education courses.
Required or prerequisite courses listed below*

VALLEY CITY STATE UNIVERSITY
Major: **Mathematics Education**
B.S. in Education 2021-22

Red **VCSU**
Black LRSC
Gray VCSU Gen Ed courses covered by block transfer

LRSC — General Education Requirements

Subject-Catalog Nbr-Course Title - Credits	Deliv	Rotate
English Composition - 6 crs		
ENGL 110 College Composition I *and*		
ENGL 120 College Composition II		
OR		
or ENGL 125 Intro to Professional Wrtg *and*		
ENGL 210 College Composition III		
Speech Communication - 3 crs *(select one course)*		
COMM 110 Fund of Public Speaking		
COMM 212 Interpersonal		
COMM 216 Intercultural		
Mathematics - 4 crs		
MATH 165 Calculus I * - 4	online	Sp
or Math 165 Calculus I * - 4	LRSC	Fa
Lab Science - 8 crs *(select two courses)*		
BIOL 111, 150, 151, 170		
CHEM 115, 116, 121, 122, GEOL 100, 106		
PHYS 100, 110, 161, 162, 251, 252, TECH 161		
Technology - 3 crs *(Select one course)*		
CSCI 127 Intro to Programming in Java * - 3	F2F	Fa
or CSCI 160 Intro to Struc Programming * - 3	F2F	Fa odd
or SE 110 Discovering Computing * - 3	F2F	Fa
or CSCI 122/124/127/160 *	LRSC	
Wellness - 2 crs		
HPER 100 Concepts Fitness & Wellness		
Art & Music Foundations - 3 crs		
ART 110; HUM 202; MUS 100, 101, 207		
Humanities		
Literacies - Literary, Media, Philosophic - 3 crs		
ENGL 220, 225, 241, 242, 261, 262; HUM 201		
SPAN 101, 102, 201, 202; THEA 110, 161		
Social Science - 6 crs *(select two courses)*		
COMM 112 Under Media; COMM 114 Human		
ECON 201 Prin Micro; ECON 202 Prin Macro		
GEOG 151 Human Geog		
HIST 103, 104, 211, 212, 260, 267, 270		
POLS 115 Amer Gov, POLS 116 State Gov		
PSYC 111 Intro Psyc ** (prereq to PSYC 250)	online	FaSp
or PSYC 111 ** (prereq to PSYC 250)	LRSC	FaSp
SOC 110 Intro to Soc; SOC 111 Intro Anthro		
Additional Humanities or Social Science - 2 crs		
Select from Humanities or Social Science areas		
or ART 112 130 150 GEOG 111		
MUS 104 105 130 131 140 141		

Required Courses (42 Crs)

Subject-Catalog Nbr-Course Title - Credits	Deliv	Rotate
MATH 166 Calculus II - 4	online	Fa
or MATH 166 Calculus II - 4	LRSC	Sp
MATH 208 Discrete Math - 3	online	Fa odd
MATH 210 Elementary Statistics - 3	online	FaSpSu
or MATH 210 Elementary Statistics - 3	LRSC	Sp
MATH 265 Calculus III - 4	online	Sp
or MATH 265 Calculus III - 4	LRSC	Fa
MATH 313 Algebra & Functions for teachers - 3	online	Sp odd
MATH 314 Geometry & Trig for teachers - 3	online	Sp even
MATH 321 Applied Probability & Statistics - 3	online	Sp
MATH 330 Linear Algebra & Matrices - 3	online	Sp even
or MATH 207 Intro to Linear Algebra - 2	LRSC	FaSp
MATH 340 Abstract Algebra - 4	online	Fa even
MATH 400 History & Philosophy of Math - 2	online	Sp odd
MATH 490 Teaching Sec School Math - 3	online	Fa even
MATH 491 Math Capstone - 1	online	Fa

Total Major Credits Required - 42

Professional Education Sequence (32 Crs)

Subject-Catalog Nbr-Course Title - Credits	Deliv	Rotate
EDUC 250 Introduction to Education - 3	online	FaSp
or EDUC 250 Introduction to Education - 2 *and*	LRSC	Fa
EDUC 298 Pre-Professional Experience - 1 *and*	LRSC	Fa
EDUC 240 Educ Exceptional Students - 3	online	FaSpSu
EDUC 249 Intro to VCSU Program - 1	online	FaSpSu
EDUC 283 Understand Cultural Diversity - 3	online	FaSpSu
EDUC 300 Educational Technology - 2	online	FaSp
EDUC 351 Sec Practicum & Clsrm Mngt - 1	online	FaSp
EDUC 375 Tchg Rdg in Content Areas - 2	online	FaSp
EDUC 400 Educational Psychology - 2	online	FaSpSu
EDUC 352 Culturally Diverse Practicum - 1	online	FaSp
EDUC 480 Student Teaching (Secondary) - 10	F2F	FaSp
EDUC 450 Trends in Assess & Educ Issues - 2	online	FaSpSu
or PSYC 250 Developmental Psychology - 3	LRSC	Sp

B.S. Ed Degree Requirements
Completion of Gen Ed Requirements
Completion of an education major
Completion of Professional Ed sequence
Full admission to Teacher Education
Successful completion of student teaching
Completion of Praxis II Math & Praxis II PLT

Graduation Requirements
Completion of a 30 upper division
semester hours at 300-400 level
Completion of a 120 semester hours

* **Required by Major**

Minimum Credits Required to Graduate - 120

VCSU: B.S. in Mathematics Education: Sample Plan of Study

Sample plan of study shown is for a VCSU student. A LRSC Assoc. in Arts or Assoc. in Science degree will transfer as a block fulfilling most general education courses.

*Denotes that an equivalent course is available through LRSC (i.e. courses could be taken through LRSC or VCSU). See status sheet for equivalent courses.

EVEN YEAR START

Year 1 (LRSC)				Year 2 (LRSC)			
Fall Even	**Crs**	**Spring Odd**	**Crs**	**Fall Odd**	**Crs**	**Spring Even**	**Crs**
*MATH 210	3	*MATH 165	4	*MATH 166	4	*MATH 265	4
*CSCI 127/160 or SE 110	3	Gen Ed Courses	10	Gen Ed Courses	10	Gen Ed Courses	6
*PSYC 111	3	Elective	3	*EDUC 250	3	MATH 314 (VCSU Online)	3
Gen Ed Courses	6					*MATH 330 (VCSU Online)	3
Freshman Orientation	1						
Total Credits	**16**		**17**		**17**		**16**

Year 3 (VCSU Online)				Year 4 (VCSU Online)			
Fall Even	**Crs**	**Spring Odd**	**Crs**	**Fall Odd**	**Crs**	**Spring Even**	**Crs**
*MATH 266	3	MATH 313	3	MATH 208	3	EDUC 400	2
MATH 340	4	MATH 321	3	MATH 410	3	EDUC 480	10
MATH 490	3	MATH 400	2	MATH 491	1		
EDUC 240	3	EDUC 283	3	EDUC 375	2		
EDUC 351	1	EDUC 300	2	EDUC 450	2		
		EDUC 352	1	*PSYC 250	3		
Total Credits	**14**		**14**		**14**		**12** | **120**

ODD YEAR START

Year 1 (LRSC)				Year 2 (LRSC)			
Fall Odd	**Crs**	**Spring Even**	**Crs**	**Fall Even**	**Crs**	**Spring Odd**	**Crs**
*MATH 210	3	*MATH 165	4	*MATH 166	4	*MATH 265	4
*CSCI 127/160 or SE 110	3	Gen Ed Courses	10	Gen Ed Courses	10	Gen Ed Courses	6
*PSYC 111	3	Elective	3	*EDUC 250	3	MATH 313 (VCSU Online)	3
Gen Ed Courses	6					MATH 400 (VCSU Online)	2
Freshman Orientation	1						
Total Credits	**16**		**17**		**17**		**15**

Year 3 (VCSU Online)				Year 4 (VCSU Online)			
Fall Odd	**Crs**	**Spring Even**	**Crs**	**Fall Even**	**Crs**	**Spring Odd**	**Crs**
MATH 208	3	MATH 314	3	MATH 340	4	EDUC 400	2
*MATH 266	3	MATH 321	3	MATH 410	3	EDUC 480	10
EDUC 240	3	*MATH 330	3	MATH 490	3		
EDUC 283	3	EDUC 300	2	MATH 491	1		
EDUC 375	2	EDUC 352	1	EDUC 351	1		
		*PSYC 250	3	EDUC 450	2		
Total Credits	**14**		**15**		**14**		**12** | **120**

Required General Education Courses	Cr	VCSU online	Equivalent course available at LRSC
MATH 165 Calculus I	4	Sp	✓
Computer Programming Course	3	F2F only	✓
PSYC 111 Intro to Psych	3	FaSp	✓

Required Math Courses	42 Crs	VCSU online	Equivalent course available at LRSC
MATH 166 Calculus II	4	Fa	✓
MATH 208 Discrete Math	3	Fa odd	
MATH 210 Elementary Statistics	3	FaSpSu	✓
MATH 265 Calculus III	4	Sp	✓
MATH 266 Intro to Differential Equations	3	Fa	✓
MATH 313 Algebra & Functions for teachers	3	Sp odd	
MATH 314 Geometry & Trig for teachers	3	Sp even	
MATH 321 Applied Probability & Statistics	3	Sp	
MATH 330 Linear Algebra & Matrices	3	Sp even	✓
MATH 340 Abstract Algebra	4	Fa even	
MATH 400 History & Philosophy of Math	2	Sp odd	
MATH 410 Real Analysis	3	Fa	
MATH 490 Teaching Sec School Math	3	Fa even	
MATH 491 Math Capstone	1	Fa	

Required Professional Education Sequence	32 Crs	VCSU online	Equivalent course available at LRSC
EDUC 240 Educating Exceptional Stdnts	3	FaSpSu	
EDUC 250 Introduction to Education	3	FaSp	✓
EDUC 283 Understdng Cultural Div in Educ	3	FaSpSu	
EDUC 300 Educational Technology	2	FaSp	
EDUC 351 Sec Practicum & Clsrm Mngt	1	FaSp	
EDUC 352 Culturally Diverse Practicum	1	FaSp	
EDUC 375 Tchg Rdg in Content Areas	2	FaSp	
EDUC 400 Educational Psychology	2	FaSpSu	
EDUC 450 Trends in Assess & Educ Issues	2	FaSpSu	
EDUC 480 Student Teaching (Sec)	10	FaSp	
PSYC 250 Developmental Psychology	3	FaSpSu	✓

Signatures:

For Lake Region State College:

_____
Dr. Doug Darling, President

12/21/2020
Date

_____
Mr. Lloyd Halvorson, VP of Academic and Student Affairs

12/21/20
Date

For Valley City State University:

_____
Dr. Alan LaFave, President

12/09/2020
Date

_____
Dr. Margaret Dahlberg, Vice President for Academic Affairs

12/9/2020
Date

_____
Dr. Jamie Wirth, Chair, Department of Mathematics

12-4-20
Date