

**MINNESOTA STATE COLLEGES AND
UNIVERSITIES*
ARTICULATION AGREEMENT
BETWEEN**

**Riverland Community College
AND
South Dakota State University**

*The Board of Trustees of the Minnesota State Colleges and Universities is authorized by Minnesota Statutes, Chapter 136F to enter into Agreements and has delegated this authority to colleges and universities.

This Agreement is entered into between Riverland Community College (hereinafter sending institution), and South Dakota State University (SDSU) (hereinafter receiving institution).

The sending institution has established an **Agricultural Sciences A.S.** (hereinafter sending program), and the receiving institution has established a **B.S. in Precision Agriculture** (hereinafter receiving program), and will facilitate credit transfer and provide a smooth transition from one related program to another. It is mutually agreed:

Admission and Graduation Requirements

- A. The receiving institution's admission and program admission requirements apply to both direct entry students and to students who transfer under this agreement.
- B. Students must fulfill the graduation requirements at both institutions.
- C. Students must complete the entire sending program and meet the receiving institution's admission requirements for the agreement to apply.

Transfer of Credits

- A. The receiving institution will accept 63 credits from the sending program. A total of 64 credits remain to complete the receiving program.
- B. Courses will transfer as described in the attached Program Articulation Table.

Implementation and Review

- A. The Chief Academic Officers or designees of the parties to this agreement will implement the terms of this agreement, including identifying and incorporating any changes into subsequent agreements, assuring compliance with system policy, procedure and guidelines, and conducting a periodic review of this agreement.
- B. This Articulation Agreement is effective on 1/01/2021 and shall remain in effect until terminated or amended by either party with 90 days prior written notice.
- C. The college and university shall work with students to resolve the transfer of courses should changes to either program occur while the agreement is in effect.
- D. This Articulation Agreement will be reviewed by both parties within six months of the end date.

PROGRAM ARTICULATION TABLE		
	College (sending)	University (receiving)
Institution	Riverland Community College	South Dakota State University
Program name	Agricultural Sciences	Precision Agriculture
Award Type (e.g., AS)	AS	BS
Credit Length	60	120
CIP code (6-digit)		
Describe program admission requirements (if any)		

Instructions

- List all required courses in both academic programs.
- MnTC goal areas transfer to the receiving institution according to the goal areas designated by the sending institution.
- Do not indicate a goal area for general education courses that are not part of the MnTC.
- For restricted or unrestricted electives, list number of credits.
- Credits applied: the receiving institution course credit amount may be more or less than the sending institution credit amount. Enter the number of credits that the receiving institution will apply toward degree completion.
- Show equivalent university-college courses on the same row to ensure accurate DARS encoding.
- Equiv/Sub/Wav column: If a course is to be encoded as equivalent, enter Equiv. If a course is to be accepted by the university as a "substitution" only for the purposes of this agreement, enter Sub. If a course requirement is waived by the receiving institution, enter Wav. If a course is to be accepted by the university as a MnTC goal area, restricted elective or unrestricted elective, leave the cell blank.

(To add rows, place cursor outside of the end of a row and press enter.)

SECTION A - Minnesota Transfer Curriculum-General Education

College (sending)			University (receiving)			
course prefix, number and name	MnTC Goal(s) ¹	Credits	course prefix, number and name	SDSU Goal(s) ²	Credits Applied	Equiv Sub Wav
Minnesota Transfer Curriculum-General Education						
ENGL 1101, Composition I	1,2	3	ENGL 101, Composition I	SGR #1	3	
ENGL 1105, Composition II: Research	1,2	3	ENGL 201, Composition II	SGR #1	3	Sub*
SPCH 1100, Fundamentals of Communication	1,9	3	SPCM 101, Fundamentals of Speech	SGR #2	3	
ECON 2292, Microeconomics	5,8	3	ECON 201, Prin. of Microeconomics	SGR #3	3	
GEOG 1200, Human Geography or GLST 1500, Intro to Global Studies	5,8	3	SGR Goal #3, Social Sciences	SGR #3	3	Sub*
HIST 1011, Early European History	5,8	3	HIST 121, Western Civilization I	SGR #4	3	
PHIL 1130, Ethics	6	3	PHIL 220, Introduction to Ethics	SGR #4	3	
MATH 1110, College Algebra	2,4	3	MATH 114, College Algebra	SGR #5	3	
MATH 2021, Fundamentals of Statistics	2,4	3	STAT 281, Introduction to Statistics		3	
BIOL 1091, General Biology I	2,3	4	BIOL 151/151L, General Biology I & Lab	SGR #6	4	
BIOL 1092, General Biology II	3,10	4	BIOL 153/153L, General Biology & Lab	SGR #6	4	
CHEM 1121, General, Organic, and Biochemistry	3,10	3	CHEM 120/120L, Elementary Chemistry & Lab		3	Sub*
PHYS 1000, Introduction to Physics	2,3	3	PHYS 101, Survey of Physics		3	Sub*
MnTC/General Education Total		41				

*The following course substitutions will be allowed as required supporting coursework for the B.S. in Precision Agriculture at SDSU.

- ENGL 1105 from Riverland CC can substitute for SDSU's ENGL 277 Technical Writing in Engineering.
- GEOG 1200 or GLST 1500 from Riverland CC can substitute for SDSU's ABS 203 Global Food Systems.
- BIOL 1092 from Riverland can substitute for SDSU's BOT 201/L General Botany/Lab.
- CHEM 1121 from Riverland CC can substitute for SDSU's CHEM 1201/120L Elementary Organic Chemistry/Lab.

SECTION B - Major, Emphasis, Restricted and Unrestricted Electives or Other

(pre-requisite courses, required core courses, required courses in an emphasis, or electives (restricted or general) within the major). Restricted electives (in Major) fulfill a specific requirement within a major. Example A: "Chose two of the following three courses;" Example B: A Biology degree may require 40 science credits (20 credits of required courses + 20 credits of listed related courses, such as botany, genetics, sociobiology, etc. which students can select).

Major, Emphasis, Restricted, Unrestricted Electives or Other Courses						
AGSC 1010, Introduction to Agronomy	3		AST/PS 119, First Year Seminar		3	
AGSC 1020, Introduction to Soil Science	3		PS 213/213L, Soils and Lab		3	
AGSC 1030, Crop Production	4		PS 103/103L, Crop Production and Lab		4	
AGSC 1050, Introduction to Animal Science	3		AS 102, Fundamentals of Animal Science		3	
AGBS 2000, Introduction to Agribusiness Management	3		ACCT 210, Principles of Accounting I or AGEC 271, Farm and Ranch Management or AGEC 354, Agricultural Marketing and Prices		3	
AGSC 2010, Introduction to Precision Agriculture, Geographic Information and Global Positioning Systems	4		PRAG 203-203L, Introduction to Precision Agriculture and Lab		4	
Major, Emphasis, Unrestricted Electives Total		20	Total College Credits Applied (sum of sections A and B)		61	

¹ MnTC goal areas transfer to the receiving college/university according to the goal areas designated by the sending institution.

² Refers to SD Board of Regents System General Education Requirements (SGRs).

SECTION C - Remaining University (receiving) Requirements

List major requirements & required support courses here	course prefix, number and name	Credits
	ABS 475/475L, Integrated Natural Resource Mgmt & Lab	3
	AST 273/273L, Microcomputer Applications in Ag & Lab	3
	AST 342/342L, Applied Electricity & Lab	3
	AST 313/313L, Farm Machinery Systems Management & Lab	3
	AST 333/333L, Soil and Water Mechanics & Lab	3
	AST 390, Seminar or PS 490, Seminar	1
	AST 412/412L, Fluid Power Technology & Lab	3
	AST 426/426L, Technology Applications for Precision Agriculture & Lab or PRAG 428, Use of Soil and Plant Sensors in Crop Production	3
	AST 494, Internship or PS 494, Internship	1
	CHEM 106/106L, Survey of Chemistry and Lab	4
	PRAG 304/304L, Electrical Diagnostics for Farm Machinery & Lab	3
	PRAG 340, Climate Risk Management with Precision Ag	3
	PRAG 345/345L, Principles and Implications of Chemical Application Systems & Lab	3
	PRAG 410/410L, Soil Geography and Land Use Interp & Lab or PS 462/462L, Environmental Soil Management & Lab	3
	PRAG 423, Soil Fertility and Plant Nutrient Management	3
	PRAG 427, Precision Ag Data Mapping	2
	PRAG 440/440L, Crop Mgmt with Precision Farming & Lab	3
	PS 223/223L, Principles of Plant Pathology & Lab	3
	PS 405/405L, Entomology & Lab or PS 407/407L, Insect Pest Management & Lab	3
	PS 445/445L, Weed Science & Lab	3
	STAT 383, Geospatial Data Analysis	3
	Crop Production Elective. Complete four credits from the following three courses. PRAG 424, Wheat Production (2 credits) PRAG 425, Soybean Production (credits) PRAG 426, Corn Production (2 credits)	4
	Note: Student must earn at least a C grade in each major required class and a cumulative GPA of 2.5 or higher in major required classes. See SDSU catalog for details.	
	Total Remaining University Credits	63

SECTION D - Summary of Total Program Credits

College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	41		
Major, Emphasis, Unrestricted Electives or Other	20		
Total College Credits	61	Total College Credits Applied	61
		Remaining credits to be taken at the university (receiving institution)	63
		Total Program Credits	124
Special Notes: B.S. in Precision Agriculture at SDSU requires 120 credits, but student would need at least 124 credits to earn both the A.S. in Agricultural Sciences from Riverland CC and the B.S. in Precision Agriculture from SDSU.			

Riverland Community College	Name	Signature	Date
Chief Academic Officer	Barb Embacher	Barb Embacher	2/11/21
VPASA Title			
South Dakota State University	Name	Signature	Date
Chief Academic Officer			
Provost & Vice President Academic Affairs	Dennis Hedge	Dennis Hedge	2-24-21